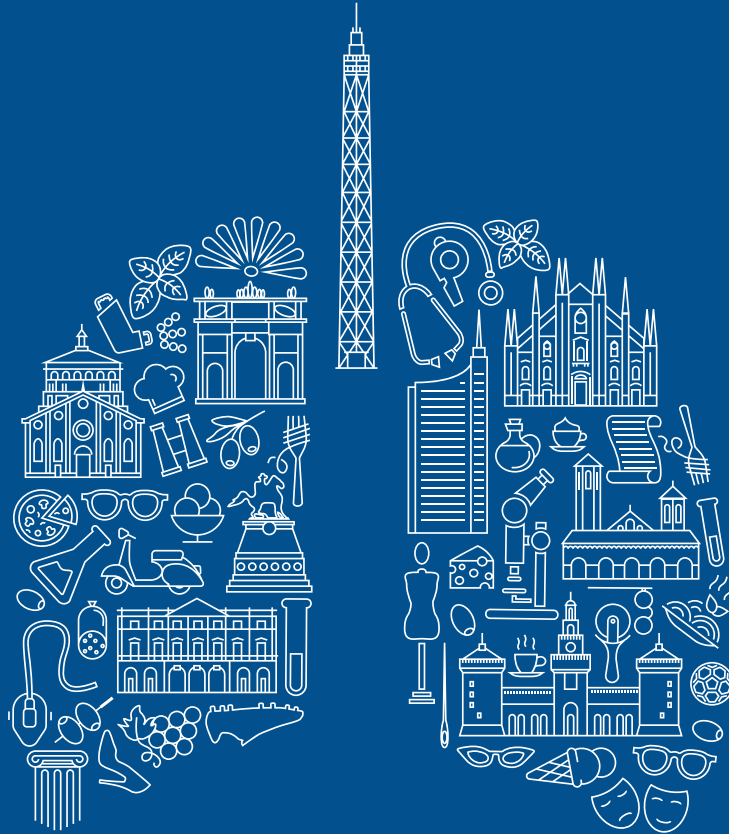




ERS



# INTERNATIONAL CONGRESS 2023

MILAN Italy, 9-13 September

# PROGRAMME

No Room Session 2 11:30 - 12:30

Public: Opening press conference for Breathe Clean Air Milan

No Room Session 3 12:00 - 22:00

Public: Healthy Lungs for Life: Clean Air Milan

**Aims :** To promote the importance of clean air for lung health, and offer spirometry to the public.

**Silver** Session 4 08:00 - 19:30**OSCE examination : Thoracic ultrasound training programme Part 3 - OSCE examination - by invitation only**  
OSCE**Aims :** By invitation ONLY**Tag(s) :** Clinical**Chairs :** Christian B. Laursen (Odense, Denmark), Najib M. Rahman (ABINGDON, United Kingdom), Jouke T. Annema (Amsterdam, Netherlands), Rahul Bhatnagar (Bristol, United Kingdom), Pia Iben Pietersen (Odense C, Denmark), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Lars Konge (Virum, Denmark), Nick Maskell (Bristol (Avon), United Kingdom), Illaa Smesseim (Hoofddorp, Netherlands)

08:00	<b>TUS Part 3 OSCE examination : Round 1</b> Najib M. Rahman (ABINGDON, United Kingdom), Pia Iben Pietersen (Odense C, Denmark), Dinesh Addala (Oxford, United Kingdom), Radhika Banka (Mumbai (Maharashtra), India), Lars Konge (Virum, Denmark), Anders Bo Nielsen (Odense C, Denmark)	1
09:05	<b>TUS Part 3 OSCE examination : Round 2</b> Najib M. Rahman (ABINGDON, United Kingdom), Lars Konge (Virum, Denmark), Pia Iben Pietersen (Odense C, Denmark), Radhika Banka (Mumbai (Maharashtra), India), Dinesh Addala (Oxford, United Kingdom), Anders Bo Nielsen (Odense C, Denmark)	2
10:10	<b>TUS Part 3 OSCE examination : Round 3</b> Najib M. Rahman (ABINGDON, United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom), Dinesh Addala (Oxford, United Kingdom), Steven Walker (Bristol (Avon), United Kingdom), Eihab Bedawi (Sheffield, United Kingdom), Beenish Iqbal (Oxford, United Kingdom)	3
11:15	<b>TUS Part 3 OSCE examination : Round 4</b> Najib M. Rahman (ABINGDON, United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom), Dinesh Addala (Oxford, United Kingdom), Steven Walker (Bristol (Avon), United Kingdom), Eihab Bedawi (Sheffield, United Kingdom), Beenish Iqbal (Oxford, United Kingdom)	4
12:20	<b>TUS Part 3 OSCE examination : Round 5</b> Najib M. Rahman (ABINGDON, United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom), Anders Bo Nielsen (Odense C, Denmark), Beenish Iqbal (Oxford, United Kingdom), Steven Walker (Bristol (Avon), United Kingdom)	5
13:40	<b>TUS Part 3 OSCE examination : Round 6</b> Rahul Bhatnagar (Bristol, United Kingdom), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Casper Falster (Odense, Denmark), Nick Maskell (Bristol (Avon), United Kingdom), Lars Konge (Virum, Denmark), Anders Bo Nielsen (Odense C, Denmark)	6
14:50	<b>TUS Part 3 OSCE examination : Round 7</b> Rahul Bhatnagar (Bristol, United Kingdom), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Jesper Rømhild Davidsen (Odense C, Denmark), Casper Falster (Odense, Denmark), Lars Konge (Virum, Denmark), Beenish Iqbal (Oxford, United Kingdom)	7
16:00	<b>TUS Part 3 OSCE examination : Round 8</b> Rahul Bhatnagar (Bristol, United Kingdom), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Radhika Banka (Mumbai (Maharashtra), India), Jesper Rømhild Davidsen (Odense C, Denmark), Casper Falster (Odense, Denmark), Beenish Iqbal (Oxford, United Kingdom)	8
17:10	<b>TUS Part 3 OSCE examination : Round 9</b> Laurence M.M.J. Crombag (Amsterdam, Netherlands), Pia Iben Pietersen (Odense C, Denmark), Søren Helbo Skaarup (Aarhus C, Denmark), Lars Konge (Virum, Denmark), Radhika Banka (Mumbai (Maharashtra), India), Speaker to be confirmed	9
18:20	<b>TUS Part 3 OSCE examination : Round 10</b> Laurence M.M.J. Crombag (Amsterdam, Netherlands), Pia Iben Pietersen (Odense C, Denmark), Radhika Banka (Mumbai (Maharashtra), India), Søren Helbo Skaarup (Aarhus C, Denmark), Lars Konge (Virum, Denmark), Speaker to be confirmed	10

**Purple** Session 5 08:00 - 18:00**NEXT: Networking Excellence Training Programme (NEXT) - by invitation only****Aims :** By invitation only - The ERS NEXT programme provides a comprehensive training programme for ERS early career abstract presenters**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

09:00	<b>Welcome and overview of the day</b> Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France), Carlos Robalo Cordeiro (Coimbra, Portugal)	11
09:15	<b>Ice-breaker - ECMC</b> All Speakers	12
09:30	<b>Presentation skills - Ubik media</b> All Speakers	13
10:00	<b>Presentations skills - Breakout</b> Maria Joana Pereira Catarata (Porto, Portugal), Susanne Vijverberg (Amsterdam, Netherlands), Holly R. Keir (Dundee (Angus), United Kingdom), Mona Lichtblau (Zürich, Switzerland), Dorina Rama Esendagli (Ankara, Turkey), Matteo Bradicich (Zollikerberg, Switzerland), Oriane Dumas (Villejuif, France), Joana Cruz (Leiria, Portugal)	14
11:20	<b>Coffee Break</b>	15
11:45	<b>Moderating sessions - Ubik Media</b> All Speakers	16
13:00	<b>Mentoring lunch</b> All Speakers	17
14:30	<b>Keynote: Manuscript writing and publishing</b> James D. Chalmers (Dundee (Angus), United Kingdom)	18
14:50	<b>Manuscript writing/publishing - Breakout</b> Thomas Gille (Bobigny, France), Karen Moor (Rotterdam, Netherlands), Oriane Dumas (Villejuif, France), Carolina Gotera (Madrid, Spain), Sara Cuevas Ocaña (Nottingham, United Kingdom)	19
15:30	<b>Panel discussion: Time management and work/life balance</b> Sejal Saglani (London, United Kingdom), Sara Cuevas Ocaña (Nottingham, United Kingdom), Lieuwe D.J. Bos (Amsterdam, Netherlands), Thomas Gille (Bobigny, France), Joana Cruz (Leiria, Portugal)	20
16:30	<b>Coffee break</b>	21
16:45	<b>Leadership in respiratory medicine</b> Mina Gaga (Athens, Greece)	22
17:15	<b>Feedback and key take-home messages</b> Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)	23

## Studio (White) Session 6 08:30 - 08:45

### News from the studio: Welcome from chairs

**Chairs :** Nicolas Roche (Paris, France), Richard Costello (Dublin 9, Ireland)

08:30	<b>Discussion and Q&amp;A</b> All Speakers	24
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## Blue 1+2 Session 7 09:00 - 11:10

### Postgraduate course: PG1 Thoracic Ultrasound: Session I

Expanding your ultrasound skills beyond the pleura and lungs

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Radiologist, Thoracic surgeon, Physician in Pulmonary Training

**Chairs :** Illaa Smesseim (Hoofddorp, Netherlands), Rahul Bhatnagar (Bristol, United Kingdom)

09:00	<b>Welcome and introduction</b> All Speakers	25
09:10	<b>Focused cardiac ultrasound (FoCUS)</b> Casper Falster (Odense, Denmark)	26

09:40	<b>Limited compression ultrasonography (LCU) of the deep veins for DVT assessment</b> Casper Falster (Odense, Denmark)	27
10:10	<b>Coffee break</b>	28
10:20	<b>US assessment of the diaphragm</b> Søren Helbo Skaarup (Aarhus C, Denmark)	29
10:50	<b>Interactive case discussion session I</b> All Speakers, Casper Falster (Odense, Denmark), Søren Helbo Skaarup (Aarhus C, Denmark)	30

## Amber 1+2 Session 8 09:00 - 10:00

### Case-based skills workshop: Academy of adult respiratory medicine - Round 1 workshops

Tag(s) : Clinical

09:00	<b>Introduction to the workshops</b> Sophia E. Schiza (Heraklion, Greece), Stylianos Loukides (Athens, Greece), Gabor Kovacs (Graz, Austria)	31
09:15	<b>Lung imaging</b> Anna Kerpel-Fronius (Budapest, Hungary)	32
09:15	<b>Pulmonary function testing</b> Frans H.C. De Jongh (Enschede, Netherlands)	33
09:15	<b>Respiratory infections</b> Eva Polverino (Barcelona, Spain)	34

## Amber 3+4 Session 9 09:00 - 10:00

### Case-based skills workshop: Academy of paediatric respiratory medicine - Round 1 workshops

Tag(s) : Clinical

Chairs : Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

09:00	<b>Introduction to the workshops</b> All Speakers, Speaker to be confirmed	35
09:15	<b>Endoscopy</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	36
09:15	<b>Lung function tests</b> Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)	37
09:15	<b>Imaging and ultrasound</b> Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)	38

## No Room Session 10 09:00 - 19:00

### Public: Healthy Lungs for Life: Clean Air Milan

#### Healthy Lungs for Life

Aims : To build awareness of the importance of clean air for good lung health

## Studio (White) Session 11 09:15 - 10:45

### Language session: Chinese Programme 2023

#### ERS/CTS joint session

Aims : to present an overview of hot respiratory disease topics in Europe and China

Disease(s) : Airway diseases Respiratory infections

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist

Chairs : Jieming Qu (Shanghai, China), Anita Simonds (London, United Kingdom)

09:15	<b>Vaccination and its protective role in COVID-19</b> Jieming Qu (Shanghai, China)	39
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09:30	<b>Lung cancer screening</b> Torsten Gerriet Blum (Berlin, Germany)	40
09:45	<b>COPD Management in China: the current status, advance and challenge</b> Fuqiang Wen (Chengdu, China)	41
10:00	<b>Tele-health in COPD management</b> Rebecca Disler (Melbourne, Australia)	42
10:15	<b>Discussion and Q&amp;A</b> All Speakers	43

## Coral 4+5 Session 12 09:30 - 11:00

### Primary care session: Working against tobacco and air pollution, the other big pandemic Primary care in the best position to treat tobacco addiction and other negative environmental changes for respiratory health

**Aims :** to present some strategies for fighting tobacco addiction and negative environmental changes affecting respiratory health from different perspectives related to primary health care.

**Disease(s) :** Airway diseases

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Respiratory physiotherapist

**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain)

09:30	<b>Not just a clinical problem. The role of public health departments and politicians</b> Joan B Soriano (Madrid, Spain)	44
09:45	<b>Not only tobacco but biomass burning, pollution or carbon print</b> Sundeeep Santosh Salvi (Pune (Maharashtra), India)	45
10:00	<b>Is vaping an effective (and safe) aid for quitting smoking?</b> Peter Hajek (London, United Kingdom)	46
10:15	<b>Consequences to lung health of extreme environmental events</b> Carla Ancona (Roma, Italy)	47
10:30	<b>Discussion and Q&amp;A</b> All Speakers	48

## Red 1+2 Session 13 09:30 - 13:00

### Postgraduate course: PG6 Mediastinal staging: The what and the how

**Aims :** mediastinal lymph node staging is part of the daily routine endoscopic care provided by pulmonologists and is one of the cornerstones of lung cancer diagnostics, helping to make decisions about subsequent therapies and prognosis. Currently, diagnostic and therapeutic algorithms for early and locoregional nonsmall cell lung cancer are largely being redefined, including the broader introduction of sublobar resections and systemic neoadjuvant therapies. At the same time, there have been substantial advances in the field of mediastinal staging. This postgraduate course will not only provide thorough and comprehensive updates on mediastinal staging from different disciplines but will also bring together these perspectives, resulting in meaningful diagnostic and therapeutic algorithms, and enable fruitful clinical discussion between experts and participants.

**Disease(s) :** Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Georgia Hardavella (Athens, Greece), Ales Rozman (Golnik, Slovenia)

09:30	<b>Pathophysiology and molecular biology in the formation of locoregional lymph node metastases</b> Ales Rozman (Golnik, Slovenia)	49
10:00	<b>Novel imaging and sampling techniques</b> Georgia Hardavella (Athens, Greece)	51

10:20	<b>Case discussion: novel imaging and sampling techniques</b> Georgia Hardavella (Athens, Greece)	52
10:40	<b>Optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</b> Torsten Gerriet Blum (Berlin, Germany)	53
11:00	<b>Case discussion: optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</b> Torsten Gerriet Blum (Berlin, Germany)	54
11:20	<b>Break</b>	55
11:50	<b>Single and multistation N2 disease: the thoracic surgeon's view</b> Stefano Elia (Roma (RM), Italy)	56
12:05	<b>Single and multistation N2 disease: the radiotherapist/clinical oncologist's view</b> Sara Ramella (Roma (RM), Italy)	57
12:20	<b>Single and multistation N2 disease: the thoracic oncologist's view</b> Thierry Berghmans (Bruxelles, Belgium)	58
12:35	<b>Discussion and Q&amp;A</b> All Speakers	59

## Coral 3

## Session 14

09:30 - 13:00

## Postgraduate course: PG4 Masterclass in asthma

**Aims :** to describe methods of diagnosing and managing patients with asthma; to present methods of assessing and treating patients with different asthma phenotypes and monitoring the effects of treatment of asthma based on recent updates.

**Disease(s) :** [Airway diseases](#)

**Method(s) :** General respiratory patient care Physiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Omar S. Usmani (London, United Kingdom), Augusta Beech (Manchester, United Kingdom), Matteo Bonini (Rome, Italy)

09:30	<b>Diagnosis of asthma</b> Renaud Louis (Liège, Belgium)	60
09:50	<b>Discussion and Q&amp;A</b> All Speakers	61
10:00	<b>Assessing and monitoring asthma and its phenotypes</b> Stylios Loukides (Athens, Greece)	62
10:20	<b>Discussion and Q&amp;A</b> All Speakers	63
10:30	<b>Pharmacological treatment and current controversies</b> Mona Al-Ahmad (Kuwait, Kuwait)	64
10:50	<b>Discussion and Q&amp;A</b> All Speakers	65
11:00	<b>Comorbidities in asthma</b> Florence Schleich (Liège, Belgium)	66
11:20	<b>Discussion and Q&amp;A</b> All Speakers	67
11:30	<b>Break</b>	68
12:00	<b>Interactive cases by early career members</b> Augusta Beech (Manchester, United Kingdom), Renaud Louis (Liège, Belgium), Stylios Loukides (Athens, Greece), Florence Schleich (Liège, Belgium), Mona Al-Ahmad (Kuwait, Kuwait)	69

## Brown 3

## Session 15

09:30 - 13:00

Postgraduate course: PG5 The use of lung function in early detection of disease  
Advances in lung function testing and the role for Artificial Intelligence

**Aims :** to give an overview of the lung function tests available for early detection of lung disease and how they are applied; to explain in which direction current research is leading us and highlight that the future might be quite different in diagnostics; to explain how these technologies can be applied in clinical practice and to provide patient examples and other examples from clinical practice; to explain the possibilities of artificial intelligence to dig deeper in data and identify patterns earlier; to explain the influence of policymakers in early detection of disease.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Epidemiology General respiratory patient care Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Frits M.E. Franssen (Maastricht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

09:30	<b>The e-nose: screening the future?</b> Karen Moor (Rotterdam, Netherlands)	70
09:50	<b>The E-nose: group assignment</b> Karen Moor (Rotterdam, Netherlands)	71
10:15	<b>Forced oscillation in telemonitoring: early detection of acute exacerbation of chronic obstructive pulmonary disease</b> Sabine Zimmermann (München, Germany)	72
10:35	<b>Forced oscillation in telemonitoring: group assignment</b> Sabine Zimmermann (München, Germany)	73
11:00	<b>Break</b>	74
11:30	<b>Spirometry in atrial fibrillation: what's the catch?</b> Jennifer Quint (Wimbledon, United Kingdom)	75
11:50	<b>Spirometry in Atrial Fibrillation: group assignment</b> Jennifer Quint (Wimbledon, United Kingdom)	76
12:15	<b>Artificial intelligence: early recognition of disease patterns</b> Wim Janssens (Leuven, Belgium)	77
12:35	<b>Artificial Intelligence: group assignment</b> Wim Janssens (Leuven, Belgium)	78

## Brown 1+2

## Session 16

09:30 - 13:00

Postgraduate course: PG2 Lung ageing in health and disease: From molecular mechanisms to (patho)physiological alterations

**Aims :** to provide an overview of the physiological alterations and molecular mechanisms underlying normal lung ageing (hallmarks of ageing), and their involvement in age-related lung diseases including chronic obstructive pulmonary disease (COPD) and idiopathic pulmonary fibrosis; to explain important hallmarks, including cellular senescence, telomere attrition, epigenetic alterations and genomic instability, in more detail and thereby identify and describe biomarkers of biological ageing; to contrast processes driving accelerated (lung) ageing with drivers of successful ageing and thereby provide insight into interventions to promote health span and delay disease onset or progression; to explain ageing of the immune system in order to identify mechanisms underlying the increased mortality from acute respiratory infections in the elderly and their contribution to chronic lung diseases; to relate the occurrence of comorbidities to COPD using various mechanisms of ageing.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Basic science, Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Thoracic oncologist

**Chairs :** Mareike Lehmann (Marburg, Germany), Corry-Anke Brandsma (Groningen, Netherlands)

09:30	<b>Overview of lung aging</b> Silke Meiners (Sülfeld, Germany)	79
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09:45	<b>Discussion and Q&amp;A</b> All Speakers	80
09:55	<b>The pros and cons of cellular senescence</b> Serge Adnot (Creteil, France)	81
10:10	<b>Discussion and Q&amp;A</b> All Speakers	82
10:20	<b>The epigenetic clock: a reprogrammable biomarker of ageing</b> Ken Raj (Cambridge, United Kingdom)	83
10:35	<b>Discussion and Q&amp;A</b> All Speakers	84
10:45	<b>Telomeres and DNA damage</b> Jonathan Baker (London, United Kingdom)	85
11:00	<b>Discussion and Q&amp;A</b> All Speakers	86
11:10	<b>Break</b>	87
11:40	<b>Aging of the immune system</b> Christina Brandenberger (Berlin, Germany)	88
11:55	<b>Discussion and Q&amp;A</b> All Speakers	89
12:05	<b>Common drivers of ageing in COPD and comorbidities</b> Niki L. Reynaert (Maastricht, Netherlands)	90
12:20	<b>Discussion and Q&amp;A</b> All Speakers	91
12:30	<b>Group assignment: Pro/Con debate on Lung aging in health and disease</b> Silke Meiners (Sülfeld, Germany), Serge Adnot (Creteil, France), Niki L. Reynaert (Maastricht, Netherlands), Ken Raj (Cambridge, United Kingdom), Christina Brandenberger (Berlin, Germany), Jonathan Baker (London, United Kingdom), Mareike Lehmann (Marburg, Germany)	92

## Yellow 1+2+3 Session 17 09:30 - 13:00

### Postgraduate course: PG7 Pulmonary embolism: A practical approach to update risk stratification and treatment decisions based on the guidelines

**Aims :** management of pulmonary embolism (PE) may cover many different aspects and involves many specialties and subspecialties of respiratory medicine. For this reason, we propose four different scenarios based on clinical cases. This approach will allow attendees to review and address the most relevant aspects of different clinical scenarios, allowing them to identify the strengths and pitfalls of the clinical guidelines. The aims of the session are as follows: Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation? Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE? Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop? Do all patients with cancer thrombosis have the same risk of bleeding and recurrence? Particularities of lung cancer.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care Thoracic oncology

**Method(s) :** General respiratory patient care Imaging Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Respiratory therapist

**Chairs :** Luis Jara-Palomares (Sevilla, Spain), Marija M. Zdraveska (Skopje, North Macedonia)

09:30	<b>Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation?</b> Fida Charif (Beirut, Lebanon)	93
09:50	<b>Discussion and Q&amp;A</b> All Speakers	94
10:00	<b>Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE?</b> David Jiménez Castro (Madrid, Spain)	95

10:20	<b>Discussion and Q&amp;A</b> All Speakers	96
10:30	<b>Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop?</b> Anna Falanga (Bergamo, Italy)	97
10:50	<b>Discussion and Q&amp;A</b> All Speakers	98
11:00	<b>Do all patients with cancer thrombosis have the same risk of bleeding and recurrence? Particularities of lung cancer</b> Laurent Bertoletti (Saint Etienne Cedex, France)	99
11:20	<b>Discussion and Q&amp;A</b> All Speakers	100
11:30	<b>Break</b>	101
12:00	<b>Group assignment</b> Fida Charif (Beirut, Lebanon), David Jiménez Castro (Madrid, Spain), Laurent Bertoletti (Saint Etienne Cedex, France), Anna Falanga (Bergamo, Italy)	102

## Coral 2 Session 18 09:30 - 13:00

### Postgraduate course: PG3 Clinical challenges in sleep-disordered breathing diagnosis and treatment

**Aims :** to demonstrate how to select the appropriate tools in order to evaluate and manage residual sleepiness in sleep-disordered breathing (SDB) patients; to explain the importance of diagnosing SDB in patients with other respiratory diseases and cancer; to describe the current evidence of the role of telemedicine for diagnosis, treatment and follow-up of SDB.

**Disease(s) :** Sleep and breathing disorders

**Method(s) :** Epidemiology Physiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Dries Testelmans (Leuven, Belgium), Esther Irene Schwarz (Zürich, Switzerland)

09:30	<b>Residual sleepiness in continuous positive airway pressure-treated patients: a clinical approach</b> Esther Irene Schwarz (Zürich, Switzerland)	103
09:50	<b>Discussion and Q&amp;A</b> All Speakers	104
10:00	<b>Sleep-disordered breathing in respiratory diseases: an update on clinical importance</b> Sophia E. Schiza (Heraklion, Greece)	105
10:20	<b>Discussion and Q&amp;A</b> All Speakers	106
10:30	<b>Sleep-disordered breathing and cancer: impact on treatment decision?</b> Manuel Sanchez De La Torre (Lleida, Spain)	107
10:50	<b>Discussion and Q&amp;A</b> All Speakers	108
11:00	<b>Telemedicine for SDB diagnosis, treatment and follow-up</b> Johan Verbraecken (Edegem (Antwerp), Belgium)	109
11:20	<b>Discussion and Q&amp;A</b> All Speakers	110
11:30	<b>Break</b>	111
12:00	<b>Group assignment</b> Sophia E. Schiza (Heraklion, Greece), Manuel Sanchez De La Torre (Lleida, Spain), Johan Verbraecken (Edegem (Antwerp), Belgium), Esther Irene Schwarz (Zürich, Switzerland)	112

**Amber 1+2** **Session 19** **10:00 - 11:00****Case-based skills workshop: Academy of adult respiratory medicine - Round 2 workshops****Tag(s)** : Clinical

<b>10:00</b>	<b>Lung imaging</b> Anna Kerpel-Fronius (Budapest, Hungary)	<b>113</b>
<b>10:00</b>	<b>Pulmonary function testing</b> Frans H.C. De Jongh (Enschede, Netherlands)	<b>114</b>
<b>10:00</b>	<b>Respiratory infections</b> Eva Polverino (Barcelona, Spain)	<b>115</b>
<b>10:45</b>	<b>Break</b>	<b>116</b>

**Amber 3+4** **Session 20** **10:00 - 10:45****Case-based skills workshop: Academy of paediatric respiratory medicine - Round 2 workshops****Tag(s)** : Clinical**Chairs** : Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

<b>10:00</b>	<b>Endoscopy</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	<b>117</b>
<b>10:00</b>	<b>Lung function tests</b> Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)	<b>118</b>
<b>10:00</b>	<b>Imaging and ultrasound</b> Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)	<b>119</b>

**Coral 1** **Session 21** **10:45 - 16:30****Patient: ELF Patient Organisation Networking Day - by invitation only****Aims** : By invitation only**Target audience** : Patient**Chairs** : Kjeld Hansen (Oslo, Norway), Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland), Hilde de Keyser (Brussels, Belgium)

<b>10:45</b>	<b>Welcome</b> Kjeld Hansen (Oslo, Norway), Hilde de Keyser (Brussels, Belgium)	<b>120</b>
<b>10:55</b>	<b>ERS President Address</b> Carlos Robalo Cordeiro (Coimbra, Portugal), Monika Gappa (Düsseldorf, Germany)	<b>121</b>
<b>11:05</b>	<b>Introduction to session: Patient and public involvement in research</b> Hilde de Keyser (Brussels, Belgium)	<b>122</b>
<b>11:10</b>	<b>Keynote: Patient involvement in setting research priorities – the European Multicentre Bronchiectasis Audit and Research Collaboration experience</b> Michal Shteinberg (Haifa, Israel)	<b>123</b>
<b>11:30</b>	<b>Patient involvement in setting research priorities using a patient journey approach</b> Anke Widenmann (Stuttgart, Germany)	<b>124</b>
<b>11:40</b>	<b>Co-design of a secondary prevention and research project for Sleep Apnoea with input from patients, health associations and health professionals</b> Luca Roberti (Rome, Italy)	<b>125</b>
<b>11:50</b>	<b>Panel discussion and question and answer</b> All Speakers	<b>126</b>
<b>12:10</b>	<b>Comfort break</b> Kjeld Hansen (Oslo, Norway)	
<b>12:20</b>	<b>Interactive breakout group discussion</b> Kjeld Hansen (Oslo, Norway)	<b>127</b>

13:00	<b>Plenary</b> Kjeld Hansen (Oslo, Norway), Hilde de Keyser (Brussels, Belgium)	128
13:20	<b>Lunch break</b> All Speakers	129
14:05	<b>Introduction to session: Mental health and lung disease</b> Liam Galvin (Thurles, Ireland)	130
14:10	<b>Keynote: Mental Health and Respiratory Disease: Chronic Obstructive Pulmonary Disease as prime example</b> Andreas Von Leupoldt (Leuven, Belgium)	131
14:30	<b>Living with pulmonary arterial hypertension: navigating challenges and promoting adjustment</b> Natalia Maeva (Sofia, Bulgaria)	132
14:40	<b>Breathing together: an online support group for people with bronchiectasis</b> Francesco Pagnini (Milan, Italy)	133
14:50	<b>Panel discussion and question and answer</b> All Speakers	134
15:10	<b>Comfort break</b> Mikaela Odemyr (Järved, Sweden)	
15:20	<b>Interactive breakout group discussion</b> Mikaela Odemyr (Järved, Sweden)	135
16:00	<b>Plenary</b> Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland)	136
16:25	<b>Welcome to ELF Chair Elect and closing words</b> Kjeld Hansen (Oslo, Norway), Dimitris Kontopidis (ATHENS, Greece)	137

## Amber 1+2 Session 22 11:00 - 11:45

### Case-based skills workshop: Academy of adult respiratory medicine - Round 3 workshops

Tag(s) : Clinical

11:00	<b>Lung imaging</b> Anna Kerpel-Fronius (Budapest, Hungary)	138
11:00	<b>Pulmonary function testing</b> Frans H.C. De Jongh (Enschede, Netherlands)	139
11:00	<b>Respiratory infections</b> Eva Polverino (Barcelona, Spain)	140

## Amber 3+4 Session 23 11:00 - 11:45

### Case-based skills workshop: Academy of paediatric respiratory medicine - Round 3 workshops

Tag(s) : Clinical

Chairs : Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

11:00	<b>Endoscopy</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	141
11:00	<b>Lung function tests</b> Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)	142
11:00	<b>Imaging and ultrasound</b> Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)	143

## Blue 1+2 Session 24 11:10 - 13:40

### Postgraduate course: PG1 Thoracic Ultrasound: Session II

Thoracic ultrasound in specific clinical settings

**Disease(s) :** Interstitial lung diseases Thoracic oncology**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Radiologist, Thoracic surgeon, Physician in Pulmonary Training**Chairs :** Søren Helbo Skaarup (Aarhus C, Denmark), Radhika Banka (Mumbai (Maharashtra), India)

11:10	<b>Use of thoracic ultrasound in an intensive care unit</b> Silvia Mongodi (Pavia, Italy)	144
11:40	<b>Use of thoracic ultrasound in an interstitial lung disease clinic</b> Jesper Rømhild Davidsen (Odense C, Denmark)	145
12:10	<b>Lunch break</b>	146
12:40	<b>Use of evidence-based training principles in thoracic ultrasound in a department</b> Pia Iben Pietersen (Odense C, Denmark)	147
13:10	<b>Interactive case discussion session II</b> All Speakers, Silvia Mongodi (Pavia, Italy), Jesper Rømhild Davidsen (Odense C, Denmark), Pia Iben Pietersen (Odense C, Denmark)	148
13:30	<b>Coffee break</b>	149

**Coral 4+5****Session 25****11:15 - 12:45****Primary care session: Conditions we are just dealing with the tip of the iceberg in primary care**  
Frequently mismanaged conditions in primary health care**Aims :** to discuss possible actions to improve management of frequently forbidden conditions in primary health care; to provide general practitioners and primary care professionals with easy tools and strategies to diagnose and manage sleep apnoea, chronic cough and interstitial lung diseases; to reduce the burden of antibiotic resistance.**Disease(s) :** Interstitial lung diseases Respiratory infections Sleep and breathing disorders**Method(s) :** General respiratory patient care**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Journalist**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Miguel Román Rodríguez (Palma De Mallorca, Spain)

11:15	<b>Obstructive sleep apnoea. Easy to identify and diagnose in primary care settings</b> Cláudia Sofia De Almeida Vicente Ferreira (Coimbra, Portugal)	150
11:30	<b>Chronic cough. New algorithms to deal with this common condition</b> Imran Satia (Hamilton, Canada)	151
11:45	<b>The importance of primary care in curbing antibiotic resistance</b> Oliver Van Hecke (Oxford, United Kingdom)	152
12:00	<b>Interstitial lung disease. Never forget to think about it in primary care</b> Maria Molina Molina (Barcelona, Spain)	153
12:15	<b>Discussion and Q&amp;A</b> All Speakers	154

**Studio (White)****Session 26****11:15 - 12:45****Language session: French programme 2023****A joint ERS/SPLF session****Aims :** This session will be delivered in French and translated in English.**Disease(s) :** Respiratory infections Thoracic oncology**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Respiratory critical care physician, Physiologist, Scientist (basic, translational), Thoracic oncologist**Chairs :** Jesus Gonzalez Bermejo (Montlignon, France), Thomas Gille (Bobigny, France)

11:15	<b>Comité d'Orientation Stratégique et d'Engagement (COSE) de la SPLF / SPLF Strategic Orientation and Commitment Committee (COSE)</b> Chantal Raheison-Semjen (Pointe-à-Pitre (Guadeloupe), France)	155
11:25	<b>Diagnostic de l'hypertension pulmonaire: quoi de neuf dans les recommandations ERS/ESC 2022 / Diagnosis of pulmonary hypertension: what's new in the European Respiratory Society/European Society of Cardiology recommendations 2022</b> Marc Humbert (Le Kremlin-Bicêtre, France)	156
11:35	<b>Médecine collaborative: diagnostic et traitement de l'EP durant la grossesse / Collaborative medicine: diagnosis and treatment of pulmonary embolism during pregnancy</b> Cécile Tromeur (Brest, France)	157
11:45	<b>Lieux de soins: PEC ambulatoire de l'embolie pulmonaire / Care: management of pulmonary embolism</b> Olivier Sanchez (Paris, France)	158
11:55	<b>Discussion and Q&amp;A</b> All Speakers	159
12:10	<b>One Health – Exposome: nouveaux paradigmes en pneumologie? / Exposome: new paradigms in pulmonology?</b> Claire Andrejak (Amiens, France)	160
12:20	<b>Pollution et Cancer bronchique / Pollution and lung cancer</b> Lucile Sese (Paris, France)	161
12:30	<b>Discussion and Q&amp;A</b> All Speakers	162

## Amber 1+2 Session 27 13:00 - 13:45

### Case-based skills workshop: Academy of adult respiratory medicine - Round 4 workshops

Tag(s) : Clinical

Chairs : Esther Irene Schwarz (Zürich, Switzerland)

13:00	<b>Sleep-related disorders</b> Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)	163
13:00	<b>Pulmonary circulation</b> Gabor Kovacs (Graz, Austria), Mona Lichtblau (Zürich, Switzerland)	164
13:00	<b>Thoracic oncology</b> Wouter H. van Geffen (Leeuwarden, Netherlands), Maria Joana Pereira Catarata (Porto, Portugal)	165

## Amber 3+4 Session 28 13:00 - 13:45

### Case-based skills workshop: Academy of paediatric respiratory medicine - Round 4 workshops

Tag(s) : Clinical

Chairs : Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

13:00	<b>Bronchial asthma and wheezing disorders</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)	166
13:00	<b>Non-CF bronchiectasis</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	167
13:00	<b>Sleep disorders</b> Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)	168

## Coral 4+5 Session 30 13:15 - 14:45

### Language session: Italian programme 2023

Terapia e procedure in pneumologia: up to date / Therapy and procedures in pulmonology: up to date.

**Aims :** to provide updates on therapeutic novelties in the field of chronic obstructive pulmonary diseases and fibrotic lung diseases; to discuss environmental and occupational risk factors in the pathogenesis of fibrotic lung diseases and the usefulness of disposable devices in interventional pulmonology, with particular focus on the possible environmental impact that single-use devices can have. Scopo della sessione è fare il punto sulle novità terapeutiche nel campo delle patologie polmonari croniche ostruttive e delle patologie fibrosanti. Inoltre due letture saranno dedicate ai fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosanti del polmone e sull'utilità dei dispositivi monouso in pneumologia interventistica, con particolare riguardo al possibile impatto ambientale che tali dispositivi possono avere.

**Disease(s) :** Airway diseases Interstitial lung diseases

**Method(s) :** Endoscopy and interventional pulmonology Epidemiology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

**Chairs :** Mauro Carone (Bari, Italy), Carlo Vancheri (Catania (CT), Italy), Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy)

13:15	<b>Fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosanti del polmone / Environmental and professional risk factors for development of fibrotic lung diseases</b> Elena Bargagli (Siena, Italy)	169
13:30	<b>Nuove terapie delle patologie polmonari fibrosanti / New therapies for fibrotic lung diseases</b> Luca Richeldi (Roma, Italy)	170
13:45	<b>Nuove terapie delle patologie polmonari croniche ostruttive / New therapies for chronic obstructive lung diseases</b> Claudio Micheletto (S.Giovanni Lupatoto, Italy)	171
14:00	<b>Utilità e impatto ambientale dei dispositivi monouso in pneumologia interventistica / Utility and environmental impact of single-use devices in interventional pulmonology</b> Lina Zuccatosta (Torrette (AN), Italy)	172
14:15	<b>Discussion and Q&amp;A</b> All Speakers	173

## Blue 1+2 Session 31 13:40 - 15:10

### Postgraduate course: PG1 Thoracic Ultrasound: Session III

#### Advanced thoracic ultrasound

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic surgeon

**Chairs :** Jouke T. Annema (Amsterdam, Netherlands), Anand Sundaralingam (Oxford, United Kingdom)

13:40	<b>Advanced TUS for assessment of the patient with pleural disease</b> Eihab Bedawi (Sheffield, United Kingdom)	174
14:10	<b>Advanced TUS for the assessment of the patient with a chest opacity</b> Christian B. Laursen (Odense, Denmark)	175
14:40	<b>Interactive case discussion session III</b> All Speakers, Eihab Bedawi (Sheffield, United Kingdom), Christian B. Laursen (Odense, Denmark)	176
15:00	<b>Coffee break</b>	177

## Amber 1+2 Session 32 13:45 - 14:45

### Case-based skills workshop: Academy of adult respiratory medicine - Round 5 workshops

**Tag(s) :** Clinical

**Chairs :** Esther Irene Schwarz (Zürich, Switzerland)

13:45	<b>Sleep-related disorders</b> Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)	178
13:45	<b>Pulmonary circulation</b> Gabor Kovacs (Graz, Austria), Mona Lichtblau (Zürich, Switzerland)	179

13:45	<b>Thoracic oncology</b> Wouter H. van Geffen (Leeuwarden, Netherlands), Maria Joana Pereira Catarata (Porto, Portugal)	180
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14:30	<b>Break</b>	181
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## Amber 3+4 Session 33 13:45 - 14:30

### Case-based skills workshop: Academy of paediatric respiratory medicine - Round 5 workshops

**Tag(s) :** Clinical

**Chairs :** Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

13:45	<b>Bronchial asthma and wheezing disorders</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)	182
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13:45	<b>Non-CF bronchiectasis</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	183
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13:45	<b>Sleep disorders</b> Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)	184
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## Red 1+2 Session 34 14:00 - 17:30

### Postgraduate course: PG9 How to improve the success of noninvasive respiratory support therapies

**Aims :** to discuss the best practices in noninvasive respiratory support therapies for patients with acute and chronic respiratory failure; to review new developments in noninvasive respiratory support therapies (from high-flow nasal oxygen therapy to noninvasive ventilation)

**Disease(s) :** Airway diseases Respiratory critical care Sleep and breathing disorders

**Method(s) :** General respiratory patient care Pulmonary rehabilitation Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist

**Chairs :** João Carlos Winck (Vila Nova de Gaia, Portugal), Claudia Crimi (Catania (CT), Italy)

14:00	<b>Noninvasive respiratory support therapies in the acute setting: How to improve the success rate in acute hypoxemic respiratory failure</b> Alexandre Demoule (Paris, France)	185
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14:20	<b>Discussion and Q&amp;A</b> All Speakers	186
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14:30	<b>Noninvasive respiratory support therapies in the acute setting: how to improve the success rate in weaning</b> Martin Dres (Paris, France)	187
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14:50	<b>Discussion and Q&amp;A</b> All Speakers	188
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15:00	<b>Noninvasive respiratory support therapies in the chronic setting: how to improve the success rate in neuromuscular disorders</b> Michelle Chatwin (London, United Kingdom)	189
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15:20	<b>Discussion and Q&amp;A</b> All Speakers	190
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15:30	<b>Noninvasive respiratory support therapies in the chronic setting: how to optimise the patient-ventilator interaction</b> Annalisa Carlucci (San Donato Milanese (MI), Italy)	191
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15:50	<b>Discussion and Q&amp;A</b> All Speakers	192
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16:00	<b>Break</b>	193
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16:30	<b>Group assignment: How to improve the success of noninvasive respiratory support therapies</b> Martin Dres (Paris, France), Annalisa Carlucci (San Donato Milanese (MI), Italy), Alexandre Demoule (Paris, France), Michelle Chatwin (London, United Kingdom)	194
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## Coral 3

## Session 35

14:00 - 17:30

## Postgraduate course: PG10 Masterclass in chronic obstructive pulmonary disease

**Aims :** to describe methods for diagnosing, assessing and managing patients with chronic obstructive pulmonary disease (COPD); to present methods for assessing and treating patients with different COPD phenotypes and monitoring the effects of treatment of COPD based on recent updates.

**Disease(s) :** Airway diseases

**Method(s) :** Cell and molecular biology General respiratory patient care Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Apostolos Bossios (Stockholm, Sweden), Vanessa M. McDonald (Newcastle (NSW), Australia), Alexander Mathioudakis (Stockport, United Kingdom)

14:00	<b>Diagnosis of COPD</b> Daiana Stolz (Freiburg, Germany)	195
14:20	<b>Discussion and Q&amp;A</b> All Speakers	196
14:30	<b>Assessing and monitoring COPD and its phenotypes</b> MeiLan K. Han (Ann Arbor, United States)	197
14:50	<b>Discussion and Q&amp;A</b> All Speakers	198
15:00	<b>Pharmacological treatment and current controversies</b> Konstantinos Kostikas (Ioannina, Greece)	199
15:20	<b>Discussion and Q&amp;A</b> All Speakers	200
15:30	<b>Comorbidities in COPD</b> Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)	201
15:50	<b>Discussion and Q&amp;A</b> All Speakers	202
16:00	<b>Break</b>	203
16:30	<b>Interactive cases by early career members</b> Alexander Mathioudakis (Stockport, United Kingdom)	204

## Brown 3

## Session 36

14:00 - 17:30

Postgraduate course: PG12 How to get a successful European project on respiratory infections  
The lesson of the European Clinical Research Alliance on Infectious Diseases (ECRAID)

**Aims :** to inform about the ECRAID project and how it achieved to be successfully approved and supported by the European Union; to present some of the most relevant workpackages focussed on respiratory infections (infections in primary care, community acquired and nosocomial infections) in order to provide useful examples for research and future projects.

**Disease(s) :** Paediatric respiratory diseases Respiratory critical care Respiratory infections

**Method(s) :** General respiratory patient care Public health Respiratory intensive care

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Eva Polverino (Barcelona, Spain), Maurizio Sanguinetti (Rome, Italy)

14:00	<b>Introduction</b> All Speakers	205
14:10	<b>The Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia (REMAP-CAP)</b> Lennie P. G. Derde (Utrecht, Netherlands)	206

14:30	<b>Discussion and Q&amp;A</b> All Speakers	207
14:35	<b>POS-VAP: implementation of clinical trials on VAP through an appropriate and flexible infrastructure</b> Ana Catalina Hernandez Padilla (Limoges, France)	208
14:55	<b>Discussion and Q&amp;A</b> All Speakers	209
15:00	<b>The management of respiratory infections in primary care: POS-ARI-PC</b> Christopher Butler (Oxford (Oxfordshire), United Kingdom)	210
15:20	<b>Discussion and Q&amp;A</b> All Speakers	211
15:25	<b>The lessons learned from COVID-19 pandemic: how to get prepared for the future</b> Herman Goossens (Edegem (Antwerp), Belgium)	212
15:45	<b>Discussion and Q&amp;A</b> All Speakers	213
15:50	<b>Break</b>	214
16:20	<b>Group assignment: How to get a successful European project on respiratory infections</b> Lennie P. G. Derde (Utrecht, Netherlands), Christopher Butler (Oxford (Oxfordshire), United Kingdom), Herman Goossens (Edegem (Antwerp), Belgium), Ana Catalina Hernandez Padilla (Limoges, France), Eva Polverino (Barcelona, Spain)	215

## Brown 1+2 Session 37 14:00 - 17:30

### Postgraduate course: PG11 Cryotherapy in the paediatric airway Indication and application of cryo-probes in the paediatric airway

**Aims :** Cryotherapy using cryocatheters is an established procedure in adult pulmonology for performing a biopsy, restoring airway patency or removing foreign bodies. In the paediatric lung, this procedure is new because catheters measuring 1.1 mm allow the application of ultrathin bronchoscopes. However, the use of this technique requires its intensive study as well as a special setting (see technical standards for cryobiopsies by the European Respiratory Society). This course is aimed at all endoscopists who want to familiarise themselves with this topic and acquire theoretical knowledge as well as practical skills.

**Disease(s) :** Paediatric respiratory diseases

**Method(s) :** Endoscopy and interventional pulmonology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Respiratory critical care physician, Paediatrician, Thoracic surgeon

**Chairs :** Alfin Vicencio (New York, United States), Dirk Schramm (Düsseldorf, Germany)

14:00	<b>New advantages in paediatric interventional bronchoscopy: cryotherapy</b> Alfin Vicencio (New York, United States)	216
15:00	<b>Cryotherapy in children: History, physics, mechanism of action and indications</b> Sarabon Tahura (Dhaka, Bangladesh)	217
14:20	<b>Foreign body removal by means of cryocatheters</b> Rhia Shah (New York City, United States)	218
14:40	<b>Restoration of airway patency: indication and technique</b> Erik B. Hysinger (Cincinnati, United States)	219
15:20	<b>Break</b>	220
15:50	<b>Group assignment: Cryotherapy in paediatric airway</b> Alfin Vicencio (New York, United States), Sarabon Tahura (Dhaka, Bangladesh), Rhia Shah (New York City, United States), Erik B. Hysinger (Cincinnati, United States)	221

## Yellow 1+2+3 Session 38 14:00 - 17:30

### Postgraduate course: PG8 Advanced cardiopulmonary exercise testing CPET in health and cardio-respiratory disease

**Aims :** to explain the physiological constraints of exercise tolerance and its application in clinical practice; to explain the optimal methods for testing lung mechanics and evaluating exertional dyspnoea; to explain the different formats of exercise tests, their advantages and disadvantages and their different prognostic values in adults and children; to explain the usefulness of exercise testing for assessing the exercise response and exercise rehabilitation in clinical practice.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**Chairs :** Pierantonio Laveneziana (Paris, France), William Stringer (Long Beach, United States)

14:00	<b>The pulmonary gas exchange response to exercise in health and disease</b> Paolo Palange (Rome, Italy)	222
14:20	<b>Discussion and Q&amp;A</b> All Speakers	223
14:30	<b>Respiratory mechanics and exertional dyspnoea in health and disease</b> Michele Schaeffer (Leuven, Belgium)	224
14:50	<b>Discussion and Q&amp;A</b> All Speakers	225
15:00	<b>Group assignment: Advanced cardiopulmonary exercise testing</b> Paolo Palange (Rome, Italy), Michele Schaeffer (Leuven, Belgium), Pierantonio Laveneziana (Paris, France)	226
15:30	<b>Break</b>	227
16:00	<b>Modalities available for assessing the exercise response and exercise rehabilitation</b> Sally J. Singh (Leicester (Leicestershire), United Kingdom)	228
16:20	<b>Discussion and Q&amp;A</b> All Speakers	229
16:30	<b>Exercise testing in children with respiratory diseases</b> Erik Hulzebos (Utrecht, Netherlands)	230
16:50	<b>Discussion and Q&amp;A</b> All Speakers	231
17:00	<b>Group assignment: Advanced cardiopulmonary exercise testing</b> Sally J. Singh (Leicester (Leicestershire), United Kingdom), Erik Hulzebos (Utrecht, Netherlands), Pierantonio Laveneziana (Paris, France)	232

## Coral 2

## Session 39

14:00 - 17:30

### Postgraduate course: PG13 The joy and challenges of diagnosing interstitial lung diseases ILD diagnosis 2023

**Aims :** to improve understanding of the current status of the multidisciplinary diagnosis of interstitial lung diseases (ILDs) and its challenges and pitfalls; to provide insight into future diagnostic modalities; to conduct interactive case discussions

**Disease(s) :** Interstitial lung diseases

**Method(s) :** Endoscopy and interventional pulmonology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** General practitioner, Nurse, Radiologist, Physician in Pulmonary Training, Adult pulmonologist/Clinician

**Chairs :** Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

14:00	<b>The clinical approach to ILD</b> Julia Wälscher (Essen, Germany)	233
14:20	<b>How to read a high-resolution computed tomography scan?</b> Nicola Sverzellati (Parma (PR), Italy)	234
14:50	<b>The practice of cryobiopsy</b> Lauren Troy (Camperdown (NSW), Australia)	235

15:10	<b>New techniques in the diagnosis of ILDs</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands)	236
15:40	<b>Pitfalls in the diagnosis of ILDs</b> Michael Kreuter (Heidelberg, Germany)	237
16:00	<b>Break</b>	238
16:15	<b>The challenges to diagnose: cystic lung disease</b> Vincent Cottin (Lyon, France)	239
16:30	<b>The challenges to diagnose: drug-induced lung disease</b> Lauren Troy (Camperdown (NSW), Australia)	240
16:45	<b>The challenges to diagnose: progressive pulmonary fibrosis</b> Vincent Cottin (Lyon, France)	241
17:00	<b>The grand finale: Multidisciplinary case discussions</b> Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France), Lauren Troy (Camperdown (NSW), Australia), Julia Wälscher (Essen, Germany), Nicola Sverzellati (Parma (PR), Italy)	242

## Amber 1+2 Session 40 14:45 - 15:30

### Case-based skills workshop: Academy of adult respiratory medicine - Round 6 workshops

Tag(s) : Clinical

Chairs : Esther Irene Schwarz (Zürich, Switzerland)

14:45	<b>Sleep-related disorders</b> Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)	243
14:45	<b>Pulmonary circulation</b> Gabor Kovacs (Graz, Austria), Mona Lichtblau (Zürich, Switzerland)	244
14:45	<b>Thoracic oncology</b> Wouter H. van Geffen (Leeuwarden, Netherlands), Maria Joana Pereira Catarata (Porto, Portugal)	245

## Amber 3+4 Session 41 14:45 - 15:30

### Case-based skills workshop: Academy of paediatric respiratory medicine - Round 6 workshops

Tag(s) : Clinical

Chairs : Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

14:45	<b>Bronchial asthma and wheezing disorders</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)	246
14:45	<b>Non-CF bronchiectasis</b> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)	247
14:45	<b>Sleep disorders</b> Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)	248

## Blue 1+2 Session 42 15:10 - 17:00

### Postgraduate course: PG1 Thoracic Ultrasound: Session IV

#### Advanced ultrasound guided procedures

Disease(s) : **Interstitial lung diseases** **Thoracic oncology**

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs : Najib M. Rahman (ABINGDON, United Kingdom), Christian B. Laursen (Odense, Denmark)

15:10	<b>Ultrasound guided biopsy of the pleura</b> Dinesh Addala (Oxford, United Kingdom)	249
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<b>15:35</b>	<b>Ultrasound guided biopsy of lymph nodes</b> Anand Sundaralingam (Oxford, United Kingdom)	<b>250</b>
<b>16:00</b>	<b>Break</b>	<b>251</b>
<b>16:10</b>	<b>Ultrasound guided biopsy of the lung</b> Christian B. Laursen (Odense, Denmark)	<b>252</b>
<b>16:35</b>	<b>TUS for advanced procedure guidance</b> Steven Walker (Bristol (Avon), United Kingdom)	<b>253</b>

## Studio (White) Session 43 15:15 - 16:45

Language session: Spanish/Portuguese programme 2023

Biological therapy in respiratory diseases. A joint ERS/ALAT/SBPT/SEPAR/SPP session

**Aims :** to provide an update on the usefulness of biological therapies for the main noninfectious respiratory diseases.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Thoracic oncologist

**Chairs :** Carlos Robalo Cordeiro (Coimbra, Portugal), Francisco Arancibia Hernandez (Santiago de Chile, Chile), Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Francisco Garcia Rio (Madrid, Spain)

<b>15:15</b>	<b>Biological therapy for severe asthma</b> Ignacio Zabert (Neuquén, Argentina)	<b>254</b>
<b>15:30</b>	<b>Lung cancer: recent therapeutic advances</b> Margarida Carmo de Pinho Dias (Vila Nova de Gaia, Portugal)	<b>255</b>
<b>15:45</b>	<b>Role of biological therapy for chronic obstructive pulmonary disease</b> Fco.De Borja Garcia-Cosio Piqueras (Palma de Mallorca, Spain)	<b>256</b>
<b>16:00</b>	<b>Biologic treatments for interstitial lung diseases</b> Bruno Guedes Baldi (São Paulo (SP), Brazil)	<b>257</b>
<b>16:15</b>	<b>Discussion and Q&amp;A</b> All Speakers	<b>258</b>

07:15-08:15

INDUSTRY EARLY MORNING SYMPOSIUM

SEE PAGE 1

08:00-08:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

PS-1 in poster area

Session 52

08:00 - 09:30

Poster session: Emerging evidence in COVID-19

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#) [Respiratory critical care](#) [Pulmonary vascular diseases](#)

Method(s) : Public health Imaging Physiology Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Cell and molecular biology Epidemiology

Tag(s) : Clinical

Chairs : Margarida Afonso (Castelo Branco, Portugal), Priti Meshram (Mumbai (Maharashtra), India)

- PA283 COVID-19 and pregnancy: experience of observations in the city perinatal center in 2021-2022 years**  
Nataliia Kravchenko (Dnipro, Ukraine), Hanna Harahulia, Olha Cherkasova, Ludmila Havrysh, Kateryna Kaira
- 
- PA284 Improved dyspnea, fatigue, respiratory and peripheral muscle strength, exercise capacity, and quality of life after exercise training in post-COVID-19**  
Deniz Inal-Ince (Ankara, Turkey), UKBE SIRAYDER, Busra Kepenek-Varol, Cihangir Acik
- 
- PA285 COVID 19 pneumonia in young subject: what's special?**  
Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen ketata, Wafa Medi, Rahma Sellami, Racem Ammar, Hamida Kwas
- 
- PA286 Correlation of clinical, radiological outcomes and novel KL-6 biomarker levels in COVID-19 survivors one year post-ICU**  
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Audrey Chirumberro, Stephanie Andre, Alain Roman, Marc Claus, Anne-Violette Bruyneel, Stephane Alard, Frederic Cotton
- 
- PA287 Follow-up of COVID 19 survivors: 3 years after**  
NADA Boutbagha (Agadir, Morocco), Abdelkarim Khannous, Fatiha Bounoua, Sofia Farhat, Hannane Ikrou, Younes Essaid, Aboubaker Imzil, Oussama Halloumi, Khadija Aitnasser, Abdelmajid Oulahbib, Houssame Ennaceri, Houda Moubachir, Hind Serhane
- 
- PA288 Impact of hospitalization for COVID-19 on attitude toward vaccination: Experience of a French hospital**  
Geoffroy Mery (Grenoble, France), Anne Conrad, Amandine Viccica, Marie Simon, Pierre Pradat, Jean-Christophe Richard, Florence Ader, Gilles Devouassoux
- 
- PA289 Small airways obstruction is present in Covid-19 pneumonia's acute period.**  
Immanuels Taivans (Riga, Latvia), Gunta Strazda, Normunds Jurka, Valentina Gordjushina
- 
- PA290 Attitude And Behavior Of Healthcare Workers And General Public Towards SARS-CoV-2 Vaccination After The Rollout Of COVID-19 Vaccines**  
Raza Ullah (Peshawar, Pakistan), Shahida Naz, Haleem Gul Janan
- 
- PA291 Oxygenation Parameters as Predictors of Clinical Outcomes in Moderate Covid-19 Infection: A Retrospective Cohort Study**  
Eliezer James Aguila (Pasig, Philippines), Tim Trinidad
- 
- PA292 Two years mortality in patients with impaired glucose tolerance after COVID-19 pneumonia**  
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov
- 
- PA293 Factors associated with poor prognosis and increased costs in COVID-19 pneumonia**  
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov
- 
- PA294 SARS-CoV-2 pneumonia: contribution of the PSI score in the prediction of hospital mortality**  
Hend Ouertani (Tunis, Tunisia), Haifa Zaibi, Khouloud Chaabi, Emna Ben Jemia, Jihen Ben Amar, Wafa Aissi, Hichem Aouina
- 
- PA295 Development of vanishing lung syndrome in patients with COVID-19 pneumonia**  
Galyna Gumeniuk (Kyiv, Ukraine), Yurii Feshchenko, Mykola Gumeniuk, Viktoria Ignatieva, Maryna Polianska, Mykola Lynnyk, Svitlana Opimakh, Inna Zvol, Oleh Yakovenko

- PA296** **Formerly hospitalized patients treated with remdesivir presented less respiratory post-COVID symptoms**  
Enikő Bárcei (Budapest, Hungary), Lőrinc Polivka, Alexandra Nagy, Gábor Horváth, Veronika Müller
- 
- PA297** **Predicting clinical worsening among hospitalized patients with COVID-19**  
Lancelot Pinto (Mumbai, India), Pb Aswin, Ananya Prabhughate, Aditi Erande, Zarir Udwadia, Jai Mullerpattan, Ayesha Sunavala, Radhika Banka, Pooja Mirchandani, Manali Kamble
- 
- PA298** **Neutrophil/lymphocyte ratio and mortality of hospitalized COVID-19 patients: a cohort study**  
Robson Prudente (Botucatu (SP), Brazil), Estefânia Franco, Luiz Machado, Luís Brizola, Maércio Santos, Edris Savadkouhi, Camila Colombo, Mariana Dorna, Suzana Tanni
- 
- PA299** **Small airways disease and lung parenchyma post COVID-19: 9 month follow up**  
Katarzyna Plewka-Barcik (Warsaw, Poland), Krzysztof Klos, Renata Rozynska, Ewa Pietruszka, Magdalena Zabicka, Marta Kania-Pudlo, Artur Maliborski, Karina Jahnz-Rozyk, Andrzej Chcialowski
- 
- PA300** **Contribution of chest tomography (CT) in the evaluation of post- covid-19 sequelae**  
Selsabil Daboussi (Tunis, Tunisia), Ameni Naaroura, Samira Mhamedi, Safa Marzouki, Houda Snoussi, Chiraz Aichaouia, Zied Moctemri
- 
- PA301** **The rs16969968 tobacco smoking-related single-nucleotide variant is associated with clinical markers in patients with severe COVID-19**  
Gloria Pérez Rubio (México, Mexico), Ramcés Falfán-Valencia, Daniela Valencia-Pérez Rea, Ingrid Fricke-Galindo, Ivette Buendía-Roldán, Leslie Chávez-Galán, Karol Nava-Quiroz, Jesús Alanis-Ponce
- 
- PA302** **Diagnostic performance of D-dimer in pulmonary embolism in patients with COVID19**  
Khouloud Chaabi (Tunis, Tunisia), Haifa Zaibi, Hend Ouertani, Safia Othmani, Emna Ben Jemia, Jihen Ben Amar, Hana Hedhli, Hichem Aouina

**PS-10 in poster area****Session 53****08:00 - 09:30****Poster session: Determinants of lung health****Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Method(s) :** Epidemiology Public health Pulmonary function testing Endoscopy and interventional pulmonology**Tag(s) :** Translational**Chairs :** Abigail Whitehouse (London, United Kingdom), Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain)

- PA303** **Asthma in a region with high exposure to agricultural products**  
YOUNESS ESSAID (Agadir, Morocco), Houda Moubachir, Hind Serhane
- 
- PA304** **Short-term association of environmental exposures with nitric oxide concentration in exhaled air**  
Lorena Torroni (Verona, Italy), Francesca Locatelli, Pierpaolo Marchetti, Sandra Baldacci, Claudio Gariazzo, Sara Maio, Mario Olivieri, Gianluca Spiteri, Massimo Stafoggia, Camillo Silibello, Giovanni Viegi, Giuseppe Verlato, Alessandro Marcon
- 
- PA305** **Long-term exposure to air pollution and risk of acute lower respiratory infections: evidence from the Danish Nurse Cohort**  
Jiawei ZHANG (Copenhagen, Denmark), Youn-Hee Lim, Rina So, Laust H. Mortensen, George Maria Napolitano, Thomas Cole-Hunter, Stéphane Tuffier, Marie Bergmann, Matija Maric, Seyed Mahmood Taghavi Shahri, Jørgen Brandt, Matthias Ketzl, Steffen Loft, Zorana Jovanovic Andersen
- 
- PA306** **Green Areas and PM2,5 exposure could be associated with Asthma and COPD?**  
Francine Maria Almeida (São Paulo (SP), Brazil), Tiana Carla Lopes Moreira, Lucas Miranda Oliveira, Renato Fraga Righetti, Fernanda Degobbi Tenorio Quirino Santos Lopes, Airlane P Alencar, Nelson Gouveia, Thais Mauad, Paulo A Lotufo, Isabela Bensenor, Itamar Souza Santos, Iolanda Fátima Lopes Calvo Tibério
- 
- PA308** **Global prevalence and determinants of chronic cough**  
Hazim Abozid (Wien, Austria), Jaymini Patel, Sylvia Hartl, Robab Breyer- Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Emiel Fm Wouters, Andre F.S. Amaral
- 
- PA309** **Effects of COVID-19 preventive measures on indoor air quality**  
Kimberly J. Linde (Utrecht, Netherlands), L Jonker, P C J L Bruijning-Verhagen, J Spithoven, M H G Tersteeg-Zijderveld, P Scherpenisse, D J J Heederik, W Dohmen, I M Wouters
- 
- PA310** **Air pollution and ethnicity associated with prevalence of small airways obstruction in a Caucasian population-based study**  
Brice Touilloux (Fribourg, Switzerland), Alessio Casutt, Cedric Bongard, Benoit Lechartier, Minh Khoa Truong, Christophe Von Garnier

PA311	<b>Preconception air pollution/greenness exposure and pregnancy outcomes: The Life-GAP Project</b> Robin Mzati Sinsamala (Bergen, Norway), Alessandro Marcon, Randi Bertelsen, Christer Janson, Mathias Holm, Lars Modig, Thorarinn Gislason, Torben Sigsgaard, Hans Orru, Camilla Geels, Lise Marie Frohn, Jørgen Brandt, Francisco Gomez Real, Simone Accordini, Iana Markevych, Cecilie Svanes, Ane Johannessen
PA312	<b>Obesity and asthma incidence in individuals exposed to agricultural spaces</b> Ilaria Stanisci (Pisa, Italy), Anna Angino, Sofia Tagliaferro, Giuseppe Sarno, Giovanni Viegi, Sara Maio, Patrizia Silvi, Stefania La Grutta, Salvatore Fasola, Velia Malizia, Isabella Annesi-Maesano, Sandra Baldacci
PA313	<b>Pollen exposures in pregnancy and early life are associated with childhood asthma</b> Rajesh Melaram (Southaven, United States), James Adefisoye, Donald Warden, Stephen Potter, Hasan Arshad, Hongmei Zhang
PA314	<b>Air quality may affect emergency department workload: The effect of air pollution on acute exacerbation of chronic obstructive pulmonary disease in Zagreb, Croatia</b> Marko Banić (Zagreb, Croatia), Lorna Corak, Dora Darapi, Robert Likić, Denis Baričević, Miroslav Samaržija, Andrea Vukić Dugac
PA315	<b>Education and income may be important predictors for digital health adoption in asthma</b> Daniela Tellez (San Diego, United States), Elroy Boers, Leanne Kaye, Vy Vuong, Meredith Barrett
PA316	<b>USE OF ELECTRONIC CIGARETTES AND HOOKAH IN BRAZIL: A NEW AND EMERGING LANDSCAPE.</b> Ana Maria Baptista Menezes (Pelotas (RS), Brazil), Fernando C Wehrmeister, Luciana M V Sardinha, Pedro B De Paula, Taina De A Costa, Pedro A Crespo, Pedro C Hallal
PA317	<b>Epidemiology of PH-LD and PH-ILD in France: a real-world evidence study</b> Olivier Sitbon (Le Kremlin-Bicêtre, France), Vincent Cottin, Maria Pini, Catia C Proenca, Miriam Fernández Delgado, Gabriela Bacchini Jeanneret
PA318	<b>A systematic review of Theory of planned Behaviour interventions for chronic diseases in low health-literacy settings</b> BISWAJIT PAUL (Vellore, India), Rita Isaac, Marshall Dozier, Liz Grant, David Weller
PA319	<b>Comorbidities in patients with severe COPD reduce quality of life, but do not affect survival</b> Else-Anna-Maria-Dorothee ter Haar (Groningen, Netherlands), Dirk-Jan Slebos, Karin Klooster, Simon D. Pouwels, Jorine E. Hartman
PA320	<b>Dyspnoea in the multinational Burden of Obstructive Lung Disease (BOLD) study</b> Alexander Müller (Wien, Austria), Emiel Wouters, Sylvia Hartl, Daisy Janssen, André Amaral
PA321	<b>UNCOVER – a non-interventional study to investigate undiagnosed severe asthma in Austria</b> Katharina Marth (Wien, Austria), Karin Patoocka, Andreas Renner, Ingrid Stelzmüller, Slagjana Stoshikj, Marco Idzko, Beata Morajda, Robab Breyer-Kohansal, Wolfgang Pohl
PA322	<b>Differences in educational level and drinking habits in women with and without COPD in a Danish rural population</b> Line Bjerrehave Nielsen (Aalborg, Denmark), Signe Juul Riddersholm, Ulla Møller Weinreich

## PS-11 in poster area

## Session 54

08:00 - 09:30

## Poster session: Thoracic surgery: a multifaceted subject

Disease(s) : Thoracic oncology Interstitial lung diseases Airway diseases Sleep and breathing disorders

Method(s) : Surgery Epidemiology Imaging Pulmonary function testing Endoscopy and interventional pulmonology Respiratory intensive care

Tag(s) : Clinical

Chairs : Kalliopi Athanassiadi (Athens, Greece), Marcello Migliore (Riyadh, Saudi Arabia)

PA323	<b>Curative surgical resection of lung cancer in octogenarian in tunisian center</b> Sarra Zairi (Tunis, Tunisia), Mahdi Abdennadher, Wassim Chaieb, Hazem Zribi, Amina Abdelkebir, Mouna Mlika, Sonia Ouerghi, Marghli Adel
PA324	<b>Quantitative CT imaging to predict postoperative pulmonary function in patients undergoing lung resection surgery: pilot study</b> Alessandro Molani (Milano, Italy), Francesca Pennati, Rosaria Carrinola, Alessandro Palleschi, Andrea Aliverti
PA325	<b>Interstitial lung disease and operable lung cancer - a center experience</b> Francisco Neri Gomes (Lisboa, Portugal), Zenito Cruz, Catarina Figueiredo, Tamiris Mogne, Bruno Mendes, Mariana Cabral, Paulo Calvinho
PA326	<b>The clinicopathological study on the cause of high postoperative recurrence for catamenial pneumothorax</b> Masatoshi Kurihara (Tokyo, Japan), Kenji Tsuboshima, Takahiro Ochi



PA327	<b>Patient reported outcome measures (PROMS) following multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgery.</b> Ioannis Karampinis (Athens, Greece), Ioannis Kyritsis, Elli Keramida, Elena Bellou, Fotis Kyriakou, Nikolaos Anastasiou, Georgia Hardavella
PA328	<b>Complications of transbronchial lung cryobiopsy: correlation with radiological pattern and PAPs</b> Guadalupe Bermudo Peloché (Barcelona, Spain), Marta Plana Pes, Marta Díez-Ferrer, Pere Trias-Sabrià, Salud Santos Pérez, Vanesa Vicens Zygmunt, Maria Molina Molina, Rosa López-Lisbona, Marta Plana Pes
PA329	<b>Acquired Tracheo-esophageal Fistula: surgical management</b> Sarrah Zairi (Tunis, Tunisia), selma madhi, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Soumaya Ben Saad, Ayda Kkaddour Ayedi, Adel Marghli
PA330	<b>PROGNOSTIC FACTORS IN OPERATED THYMOMA.</b> Sarrah Zairi (Tunis, Tunisia), Feriel Souissi, Taieb Chrif, Mahdi Abdennadher, Mohamed Chokri Kortas, Sofiene Jerbi, Adel Marghli
PA331	<b>Surgical management of neurogenic chest tumor</b> Sarrah Zairi (Tunis, Tunisia), Kaouther Ben Amara, Amina Abdelkebir, Habib Bessrouf, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Adel Marghli
PA332	<b>Diaphragm plications: trends and outcomes.</b> Masooma Ali (Nottingham, United Kingdom), Mohammad Hawari, Abed-Elfattah Atieh, Milind Sovani
PA333	<b>Does oxidized regenerated cellulose reinforcement for the entire pulmonary lobe during video-assisted thoracoscopic blebectomy reduce postoperative recurrent pneumothorax?</b> Masao Naruke (Tokyo, Japan), Ikuo Kamiyama, Takashi Ohtsuka
PA334	<b>Lung cancer surgery with curative intent in elderly patients; Friend or foe?</b> Georgia Hardavella (Athens, Greece), Ioannis Karampinis, Elissavet Babaliari, Elli Keramida, Fotis Kyriakou, Panagiotis Demertzis, Konstantinos Potaris
PA335	<b>Surgery of Giant Bullous Emphysema: Report of 60 patients</b> Sarrah Zairi (Tunis, Tunisia), Mahdi Abdennadher, Elyes Khlaf, Abdelkebir Amina, Hazem Zribi, Henda Neji, Hanen Smadhi, Adel Marghli
PA336	<b>Lung cancer screening "through" the COVID19 pandemic. A retrospective study.</b> Mariem Hadj Dahmane (Argenteuil, France), Abdou Rabi Richard, Bassel Dakhil, Patrick Bagan, Rym Zaimi, Hanifa Boukhar
PA337	<b>Hybrid surgical treatment of a complicated intralobar sequestration in a young adult.</b> Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Stylianos Michelis, Anna Theodorou, Georgios Gkantinas, Evangelos Fergadis, Maria Trimandili, Theodoros Fachouridis, Efstathios Metaxas, Ioannis Stamatatos, Georgios Benakis, Ilias Samiotis, Antonios Katsantonis, Kiknadze Theoni, Antonios Antoniadis, Stylianos Zaragkas, Nikolaos Tzatzadakis
PA338	<b>Non-small cell lung cancer with chest wall involvement: peculiarities of management</b> Sarrah Zairi (Tunis, Tunisia), Habib Bessrouf, Nidhal Balloumi, Mehdi Abdennadher, Hazem Zribi, Mariem Affes, Aida Ayedi, Sonia Ouerghi, Adel Marghli
PA339	<b>A rare case of Pulmonary Lymphangioma</b> Shivalingaswamy Salimath (Bangalore (Karnataka), India), Harish G M, Sathish C, Anjali Parvathy, Nithin S Lal, Sanjai Narayanasamy
PA340	<b>Surgery for primary mediastinal seminoma after chemotherapy: report of 3 cases</b> Sarrah Zairi (Tunis, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Ameni Ben Mansour, Emna Brahem, Adel Marghli
PA341	<b>Enlarged pneumonectomy for non-small cell lung cancer: 10-year experience</b> Sarrah Zairi (Tunis, Tunisia), Asma Saad, Mahdi Abdennadher, Takwa Abdelfatah, Hazem Zribi, Amani Ben Mansour, Aida Ayadi- Kaddour, Adel Marghli
PA342	<b>Sterno-clavicular joint infection: presentation and management</b> Sarrah Zairi (Tunis, Tunisia), Chiraz Albouzidi, Mahdi Abdennadher, Emna Brahem, Nizar Fitouhi, Mariem Affes, Amina Abdelkabar, Hazem Zribi, Sonia Ouerghi, Saoussen Hantous, Tahar Mestiri, Adel Marghli

PS-12 in poster area

Session 55

08:00 - 09:30

Poster session: Best posters in respiratory physiotherapy

**Disease(s) :** Respiratory critical care Interstitial lung diseases Airway diseases Thoracic oncology

**Method(s) :** Pulmonary rehabilitation General respiratory patient care Public health Pulmonary function testing Transplantation Physiology

**Tag(s) :** Clinical

**Chairs :** Andre Nyberg (Umeå, Sweden), Melda Saglam (Ankara, Turkey)

PA343	<b>Effects of pulmonary rehabilitation on cough-related quality of life in people with chronic respiratory disease</b> Ana Sofia Brites Grave (Alcobaça, Portugal), Maria Aurora Mendes, Dina Brooks, Alda Marques, Ana Oliveira
PA344	<b>Can we use creative dance as exercise training for chronic obstructive pulmonary disease? A randomized controlled trial</b> Meltem Kaya (İstanbul, Turkey), Hulya Nilgun Gurses, Fatmanur Okyaltirik
PA345	<b>Effects of pulmonary rehabilitation in hematopoietic stem cell transplantation recipients: A randomized controlled study</b> Meral Bosnak Guclu (Ankara, Turkey), Selin Bayram, Gülşah Barğı, Zeliha Çelik
PA346	<b>Effects of self-management interventions in people with interstitial lung disease - systematic review and meta-analysis</b> Ana Oliveira (Aveiro, Portugal), Steve Freitas Dos Santos, Alda Marques, Patricia Rebelo, Dina Brooks, Adam Benoit
PA347	<b>Effectiveness of inspiratory muscle training in chronic respiratory diseases: an overview of systematic reviews of clinical randomised trials</b> Elena Gimeno-Santos (Barcelona, Spain), Rodrigo Torres-Castro, Saul Caicedo-Trujillo, Ruvistay Gutierrez-Arias, Xavier Alsina-Restoy, Luis Vasconcello-Castillo, Agustin R. Garcia, Pamela Seron, Martijn Spruit, Isabel Blanco, Jordi Vilaro
PA348	<b>The effect of incentive spirometry in addition to comprehensive chest physiotherapy on length of hospital stay and hemodynamic responses in patients with COPD exacerbation</b> Hilal Denizoglu Külli (Istanbul, Turkey), Meltem Kaya, Hikmet Uçgun, Melih Zeren, Fatmanur Okyaltirik, Hulya Nilgun Gurses
PA349	<b>Effects of non-invasive ventilation on exercise performance in heart failure patients: a double blind, randomized cross-over trial</b> Rodrigo Torres Castro (Barcelona, Spain), Guillermo Mazzucco, Leonardo Intelangelo, Ana Lista-Paz, Nicola Chichizola, Juan Pablo Escalante, Gonzalo Veiga, Leire Mendiluce-Ochandorena, Ane Arbillaga Etxarri
PA350	<b>Efficacy of community long-term ventilation for obstructive lung disease associated with chronic hypercapnic respiratory failure: a service evaluation</b> Bethan Clayton (Manchester, United Kingdom), Verity Ford, Aashish Vyas
PA351	<b>Self-selected music listening during pulmonary rehabilitation in people with COPD: a multi-centre, randomised controlled trial.</b> Annemarie Lee (Melbourne (VIC), Australia), Stacey Butler, Peter Jung, Jeanette Tamplin, Imogen Clark, Roger Goldstein, Dina Brooks
PA352	<b>Characteristics and benefits of responders to a behavioral intervention to increase physical activity in asthma: preliminary data from a pragmatic study</b> Fabiano de Lima (São Paulo, Brazil), Adriana Lunardi, David Pinheiro, João Victor De Souza, Rafael Stelmach, Rosana Agondi, Pedro Giavina-bianchi, Regina Carvalho-Pinto, Celso Carvalho
PA353	<b>EFFECTS OF EXPIRATORY MUSCLE TRAINING IN PATIENTS WITH BRONCHIECTASIS</b> Ayşenur Yilmaz (Denizli, Turkey), Orçin Telli Atalay, Göksel Altinişik
PA354	<b>Comparison of the Effects of Video Game-Based Breathing Exercises and Conventional Breathing Exercises in Children and Adolescents with Non-Cystic Bronchiectasis</b> Hikmet Uçgun (Istanbul, Turkey), Hulya Nilgun Gurses, Erkan Cakir
PA355	<b>Physical activity on physiotherapy days versus non-physiotherapy days after an AECOPD</b> Marieke Wuyts (Laeken, Belgium), Fien Hermans, Sofie Breuls, Stephanie Everaerts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters
PA356	<b>The Borg Cycle Strength Test (BCST) for prescribing supramaximal high-intensity interval training (HIIT) in COPD</b> Jana De Brandt (Umeå, Sweden), Johan Jakobsson, Mattias Hedlund, Anna-Clara Rullander, Thomas Sandström, André Nyberg
PA357	<b>A comparison of upper extremity functional capacity in lung transplant recipients and healthy controls</b> Ebru Calik Kutukcu (Ankara, Turkey), Ulas Ar, Erdal Yekeler

**PA358** **Upper extremity exercise capacity, physical activity levels and quality of life in patients with lung cancer underwent pneumonectomy**  
Gülsüm Serttaş Güven (Burdur, Turkey), Meral Boşnak Güçlü, Nur Dilvin Özkan Koyuncuoğlu, Ismail Cüneyt Kurul, Ali Çelik

**PA359** **Comorbidities and physical activity in patients after lung transplantation**  
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Wim Janssens, Robin Vos, Thierry Troosters, Heleen Demeyer

**PA360** **Validation of walking trails for people with COPD**  
Nicola Sante Diciolla (Madrid, Spain), Alda Marques, Ana Sofia Grave, Cíntia Dias, Guilherme Rodrigues, Maria Gomes, E. Samuel Santos, Zulmira Pereira, Luisa Pereira, Patricia Rebelo

**PA361** **Validity of the Fitbit Charge 4 to measure daily steps, oxygen saturation and resting heart rate in patients with COPD**  
Fien Hermans (Gent, Belgium), Astrid Blondeel, Eva Arents, Patrick Calders, Thierry Troosters, Eric Derom, Heleen Demeyer

**PA362** **Cut-off of the chester step test to detect functional impairment and mortality risk according to the 6MWT in ILD**  
Cátia Paixão (Aveiro, Portugal), Ana Alves, Ana Sofia Grave, Pedro G Ferreira, Francisca Teixeira Lopes, M Aurora Mendes, José Coutinho Costa, Dina Brooks, Alda Marques

PS-13 in poster area

Session 56

08:00 - 09:30

## Poster session: Contemporary nursing

Disease(s) : Airway diseases Interstitial lung diseases Sleep and breathing disorders Thoracic oncology

Method(s) : Pulmonary function testing General respiratory patient care Public health Epidemiology Palliative care Surgery Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Andreja Sajnic (Zagreb, Croatia), Liliana Silva (Matosinhos, Portugal)

**PA363** **Multiple manifestations of uncontrolled asthma increase the risk of severe COVID-19**  
Stina Selberg (Luleå, Sweden), Johanna Karlsson Sundbaum, Jon R Konradsen, Helena Backman, Linnea Hedman, Anne Lindberg, Caroline Stridsman

**PA364** **Activity levels and quality of life of Long COVID-19 patients 2 years post-infection**  
Andrés Calvache Mateo (Granada, Spain), Sofía Hernández Hernández, Julia Raya Benítez, Laura López López, María Granados Santiago, Geraldine Valenza Peña, Marie Carmen Valenza

**PA365** **Pain related clinical profile of Long COVID-19 patients 2 years post-infection**  
Andrés Calvache Mateo (Granada, Spain), Sofía Hernández Hernández, Julia Raya Benítez, Alejandro Heredia Ciuró, Javier Martín Núñez, Izarbe Ríos Asín, Marie Carmen Valenza

**PA366** **Impact of the COVID-19 pandemic on specialized rehabilitation nursing care in respiratory field.**  
Barbara Pires (Wageningen, Netherlands), Rui Silva, José Padilha

**PA367** **A systematic review of factors that determine COVID-19 vaccine uptake amongst underserved populations considering social norms and health beliefs**  
Tahreem Chaudhry (London, United Kingdom), Patricia Tum, Dominik Zenner

**PA368** **Interstitial Lung Disease (ILD): Longitudinal exploration of patient experiences of home spirometry**  
Jessica Mandizha (Exeter, United Kingdom), Joseph Lanario, Anna Duckworth, Sarah Lines, Ana Rita Paiva, Victoria Elworthy, Veena Muraleedharan, Graham Brown, Maureen Cosby, Adam Russell, Alexander Berry, Michael Gibbons, Chris Scotton, Anne-Marie Russell

**PA369** **Integrated Sleep Service Model (ISSM) implementation to improve the care of patients with Sleep-Breathing Disorder(SBD)**  
Maggie, Pik Kee Lit (Kowloon, Hong Kong), Kuen Han Lee, Chun Kong Ng, Wing Hing O, Pui Shan Chow, Yuen Hin Wong, Fung Ting Mak, Yiu Hei Chan, Wan Man Johnny Chan

**PA370** **The effectiveness of the Intensive Tobacco Cessation Programme: a multi-professional approach**  
Lucía Méndez González (Santa Maria da Feira, Portugal), Cristina Leite, Francisca Teixeira Lopes, Catia Caneiras, Jorge Ferreira

**PA371** **Sind Post-COVID: Impact on Physical and Functional Respiratory Capacity**  
Lucía Méndez González (Santa Maria da Feira, Portugal), Susana Pereira, Cristina Alves, Catia Caneiras, Filipa Ferreira, Jorge Ferreira

- PA372** **Impact and clinical benefit of nebulized antibiotics in patients with chronic bronchial infection without cystic fibrosis**  
Sally Santistevé Lostes (Ileida, Spain), Marcela Suarez, Esther Gracia-Lavedan, Alfredo Jover Saenz, Maria Zuñil, Juan A. Schoenenberger Arnaiz, Arturo Morales Portillo, Ferran Barbé, Jessica González
- PA373** **Octreotide as a Therapeutic Option for Refractory Chronic Cough: A Retrospective Case Series**  
Kayleigh Brindle (Cottingham, United Kingdom), Mengru Zhang, Natalie Carter, Alyn Morice
- PA374** **Self-assessment of health in adult patients with cystic fibrosis after the introduction of triple CFTR modulator therapy**  
Tihana Odobasic Palkovic (Zagreb, Croatia), Ivana Lalic Cickovic, Tomislava Milinkovic, Dolores Bzik, Gorana Levacic, Andreja Sajnic, Irena Godic, Andrea Vukic Dugac
- PA375** **Transthoracic biopsy - importance and complications**  
Ivana Lukić Franolić (Zagreb, Croatia), Sandra Karabatić, Andreja Šajnić
- PA376** **Developing an audit tool for assessing suitability for self-administration of asthma biologic therapies.**  
Paula Hallahan (Dublin 7, Ireland), Claire Sheridan
- PA377** **Efficacy of respiratory training in pulmonary function of idiopathic pulmonary fibrosis: a Meta-analysis**  
Javier Martín Núñez (Granada, Spain), Alba Navas Otero, Sofia Hernández Hernández, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Geraldine Valenza Peña, Marie Carmen Valenza
- PA378** **The “vicious circle” of chronic cough. The patient experience – A qualitative synthesis.**  
Kayleigh Brindle (Cottingham, United Kingdom), Alyn Morice, Carter Natalie, Dominic Sykes, Mengru Zhang, Andrea Hilton
- PA379** **Endobronchial valve (EBV) treatment for emphysema: a qualitative study of patients’ expectations**  
Camilla Askov Mousing (Randers SØ, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke, Kathrine Bock, Thomas Decker Christensen, Morten Bendixen, Elisabeth Bendstrup, Lotte Hasling Kodbøl Jørgensen, Karoline Littrup King
- PA380** **Evaluation of outpatient clinic for non-malignant respiratory palliation - An interdisciplinary collaboration**  
Stephanie Paag Svane (Odense C, Denmark), Sofie Lock Johansson, Ingrid Louise Titlestad, Mette Barlebo Froesig, Siri Stistrup Rasmussen, Sabine Gill, Helle Marie Christensen

## PS-14 in poster area

## Session 57

08:00 - 09:30

## Poster session: Bronchiectasis registries, cohorts and subgroups

Disease(s) : **Airway diseases** **Respiratory critical care**

Method(s) : Cell and molecular biology Imaging Pulmonary function testing Pulmonary rehabilitation Epidemiology General respiratory patient care Physiology Public health

Tag(s) : Clinical

Chairs : Felix C. Ringshausen (Hannover, Germany), Beatriz Herrero Cortina (Zaragoza, Spain)

- PA381** **The microbiology of bronchiectasis in Europe: Data from the European Bronchiectasis Registry (EMBARC)**  
Stefano Aliberti (Milano (MI), Italy), James D. Chalmers, Eva Polverino, Megan Crichton, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Pierre Regis Burgel, Charles Haworth, Michael Loebinger, Katerina Dimakou, Marlene Murriss, Robert Wilson, Adam Hill, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Josje Altenburg, Michal Shteinberg, Wim Boersma, Stuart Elborn, Pieter Goeminne
- PA382** **The airway microbiome in Bronchiectasis-COPD overlap: data from the EMBARC-BRIDGE study**  
Holly R. Keir (Dundee (Angus), United Kingdom), Alison J. Dicker, Hollian Richardson, Ellie Kewin, Lidia Perea Soriano, Jennifer Pollock, Yan H Giam, Megan Crichton, Hayoung Choi, Erin Cant, Simon Finch, Christopher J. Fong, Francesco Blasi, Amelia Shoemark, Oriol Sibila, Stefano Aliberti, James D Chalmers
- PA383** **Inflammatory Endotypes, Microbiome and Exacerbation Risk in Bronchiectasis: A European Multicentre Study**  
Amelia Shoemark (Dundee (Angus), United Kingdom), Hayoung Choi, Soorack Ryu, Holly Keir, Yan Hui Giam, Alison Dicker, Lidia Perea, Hollian Richardson, Jeffrey Huang, Erin Cant, Francesco Blasi, Jennifer Pollock, Michal Shteinberg, Simon Finch, Stefano Aliberti, Oriol Sibila, James Chalmers
- PA384** **The bronchiectasis exacerbation definition in a real-world setting: data from the EMBARC registry**  
Mattia Nigro (Opera (MI), Italy), Megan Crichton, Pieter C. Goeminne, Natalie Lorent, Katerina Dimakou, Oriol Sibila, Rosario Menendez, Michal Shteinberg, Francesco Blasi, Tobias Welte, Eva Polverino, James D. Chalmers, Stefano Aliberti
- PA385** **International validation of the Bronchiectasis Health Questionnaire (BHQ): data from the EMBARC-BRIDGE study**  
Arietta Spinou (London, United Kingdom), Megan L Crichton, Amelia Shoemark, Stefano Aliberti, Josje Altenburg, Francesco Blasi, Clare Clarke, Sanjay H Chotirmall, Raja Dhar, Pieter Goeminne, Charles Haworth, Michael Loebinger, Natalie Lorent, Eva Polverino, Felix Ringshausen, Michal Shteinberg, Oriol Sibila, Tobias Welte, James D Chalmers

<b>PA386</b>	<b>Alpha-1 antitrypsin deficiency genotypes in a large international cohort study of bronchiectasis (EMBARC BRIDGE)</b> Felix C. Ringshausen (Hannover, Germany), Natalie Lorent, Anthony De Soyza, Oriol Sibila, Eva Polverino, Josje Altenburg, Megan L. Crichton, Michal Shteinberg, Pieter C. Goeminne, Francesco Blasi, Tobias Welte, Stefano Aliberti, Amelia Shoemark, James D. Chalmers
<b>PA387</b>	<b>Bronchiectasis in Patients with Chronic Lymphocytic Leukemia</b> Ori Wand (Kfar Sava, Israel), Dovev Cohen, Alexandra Osadchy, Lilach Israeli-Shani, Keren Cohen-Hagai, David Shitrit
<b>PA388</b>	<b>Clinical phenotypes of bronchiectasis exacerbation: data from the EMBARC exacerbation substudy</b> Mattia Nigro (Opera (MI), Italy), Megan Crichton, Pieter C. Goeminne, Natalie Lorent, Katerina Dimakou, Oriol Sibila, Rosario Menendez, Michal Shteinberg, Francesco Blasi, Tobias Welte, Eva Polverino, James D. Chalmers, Stefano Aliberti
<b>PA389</b>	<b>Bronchiectasis as a prognostic factor in patients with alpha 1 antitrypsin deficiency?</b> Maria Beatriz Dias Ferraz (Porto, Portugal), Tiago Oliveira, Bárbara Ramos, Maria Sucena, Inês Sanches, Catarina Lacerda, Raquel Marçoa, Ivone Pascoal
<b>PA390</b>	<b>Alpha1antitrypsine (AAT) in sputum: is it a useful biomarker in Bronchiectasis (BE)?</b> Letizia Traversi (Cittiglio, Italy), Ianire Gallego, Javier Perez-Miranda, Almudena Felipe, Antonio Alvarez, David Clofent, Mario Culebras, Maria Luiza De Souza Galvão, Karina Loor, Eva Polverino
<b>PA391</b>	<b>A cohort series; referral bias and unmet needs in inflammatory bowel disease associated bronchiectasis</b> Tony De Soyza (Newcastle-upon-Tyne, United Kingdom), Georgia Tindle, Paul Mccallion, John Davison, Katy Hester, Anthony De Soyza
<b>PA392</b>	<b>Identification of a subgroup of non cystic fibrosis (CF) bronchiectasis patients with asthmatic traits</b> Laura Carrozzi (Pisa (PI), Italy), Roberta Pancani, Valerie Wandael, Giulia Lenzini, Davide Chimera, Francesco Pistelli, Federico Lorenzo Dente
<b>PA393</b>	<b>A complete test panel avoids missed PCD diagnosis in adults with mild clinical phenotype</b> Doriane Calmés (Liège, Belgium), Noémie Bricmont, Bonhiver Romane, Guissard Françoise, Pauly Clara, Hougrand Olivier, Benchimol Lionel, Poirrier Anne-Lise, Docampo Martinez Elisa, Harvengt Julie, Jacquinet Adeline, Seghaye Marie-Christine, Louis Renaud, Kempeneers Céline
<b>PA394</b>	<b>What are the radiological, microbiological and biochemical characteristics of bronchiectasis in alpha-1 antitrypsin deficiency? A systematic review</b> Joshua De Soyza (Birmingham, United Kingdom), Anita Pye, Daniella A. Spittle, Alice M. Turner
<b>PA395</b>	<b>Evaluation of the quality of life in patients followed for bronchial dilatation at the Hassan II Hospital in Agadir</b> Khadija Ait nasser (Agadir, Morocco), Houda Moubachir, Hind Serhane
<b>PA396</b>	<b>The Royal Brompton hospital adult primary ciliary dyskinesia (PCD) service: 2 years on</b> Stevie Peake (London, United Kingdom), Andrew Jones, Ricardo Jose, Elaine Shattock, Michael Loebinger
<b>PA397</b>	<b>Sputum colour assessment and clinical outcomes in bronchiectasis: data from the EMBARC Registry</b> Megan Crichton (Dundee (Angus), United Kingdom), Eva Polverino, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Pierre Regis Burgel, Charles Haworth, Michael Loebinger, Katerina Dinamku, Marlene Murriss, Robert Wilson, Adam Hill, Rosario Menendes, Antoni Torres, Tobias Welte, Francesco Blasi, Josje Altenburg, Michal Shteinberg, Wim Boersma, Stuart Elborn, Pieter Goeminne, Stefano Aliberti, James Chalmers
<b>PA398</b>	<b>Mannitol vs Hypertonic saline in non-CF bronchiectasis, a systematic review, pairwise, and network meta-analysis of randomized control trials.</b> Mohamed H. Fathy (New Cairo, Egypt), Mahmoud A. Elnagar, Merihan A. Elbadawy, Ahmed K. Awad
<b>PA399</b>	<b>Bronchiectasis associated to connective tissue diseases: a single-center experience</b> Anna Stainer (Vigevano, Italy), Andrea Gramegna, Edoardo Simonetta, Mattia Nigro, Marco Mantero, Margherita Ori, Francesco Amati, Stefano Aliberti, Francesco Blasi
<b>PA400</b>	<b>Phenotypes in adult patients with bronchiectasis: a cluster analysis</b> Oxana Munteanu (Chişinău (Chişinău), Republic of Moldova), Doina Rusu, Aliona David, Leonid Onea, Victor Botnaru

PS-15 in poster area

Session 58

08:00 - 09:30

Poster session: New strategies for therapeutic management of interstitial lung disease of known cause

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#)

Method(s) : Epidemiology General respiratory patient care Respiratory intensive care Pulmonary function testing Palliative care Cell and molecular biology Imaging Endoscopy and interventional pulmonology

Tag(s) : Clinical

**Chairs :** George Margaritopoulos (London, United Kingdom), Antoine Froidure (Bruxelles, Belgium)

<b>PA401</b>	<b>Early intervention of antifibrotics along with anti-inflammatory treatment in rapidly progressive interstitial lung disease (RP-ILD) with anti-MDA5 antibody-positive dermatomyositis (MDA5-DM)</b> Tomohiro Bando (Seto, Japan), Yasuhiko Yamano, Reoto Takei, Hajime Sasano, Jun Fukihara, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Takeshi Johkoh, Junya Fukuoka, Yasuhiro Kondoh
<b>PA402</b>	<b>Real-life multicentric national observational study of the use of nintedanib in systemic sclerosis-associated interstitial lung disease</b> Vincent Koether (Lille, France), David Launay, Martine Reynaud Gaubert, Grégoire Prévot, Luc Mouthon, Raphael Borie, Kinan El Husseini, Paul Decker, Stéphanie Dirou, Elodie Blanchart, Amélie Leurs, Sabine Berthier, Xavier Delbrel, Marie Durel, Christian Agard, Eric Hachulla, Ana Nieves, Denise Aydingag, Snfmi Snfmi, Gfrs Gfrs, Orphalung Orphalung, Vincent Cottin, Yurdagul Uzunhan
<b>PA403</b>	<b>Sustained-release morphine for breathlessness in interstitial lung disease - a crossover study</b> Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sabrina Bajwah, David Currow
<b>PA404</b>	<b>Real-world data from 24 UK centres for the use of nintedanib for progressive fibrosing interstitial lung disease</b> Samuel Hague (Bristol, United Kingdom), Giles Dixon, Sarah Mulholland, Aye Myat Noe Khin, Hannah Thould, Roisin Connon, Paul Minnis, Eoin Murtagh, Fasihul Khan, Sameen Toor, Alexandra Lawrence, Marium Naqvi, Alex West, Robina Coker, Katie Ward, Leda Yazbeck, Simon Hart, Theresa Garfoot, Kate Newman, Pilar Rivera-Ortega, Lachlan Stranks, Paul Beirne, Jessica Bradley, Catherine Rowan, Sarah Agnew, Mahin Ahmad, Lisa G Spencer, Joshua Aigbirior, Ahmed Fahim, Andrew M Wilson, Elizabeth Butcher, Sy Giin Chong, Gauri Saini, Sabrina Zulfikar, Felix Chua, Peter M George, Maria Kokosi, Vasileios Kouranos, Philip Molyneaux, Elisabetta Renzoni, Benedetta Vitri, Athol U Wells, Lisa M Nicol, Stephen Bianchi, Raman Kular, Huajian Liu, Alexander John, Sarah Barth, Melissa Wickremasinghe, Ian A Forrest, Ian Grimes, A. John Simpson, Sophie V Fletcher, Mark G Jones, Emma Kinsella, Jennifer Naftel, Nicola Wood, Jodie Chalmers, Anjali Crawshaw, Louise E Crowley, Davinder Dosanjh, Christopher C Huntley, Gareth I Walters, Timothy Gatheral, Catherine Plum, Shiva Bikmalla, Raja Muthusami, Helen Stone, Jonathan C L Rodrigues, Krasimira Tsaneva-Atanasova, Chris J Scotton, Michael A Gibbons*, Shaney L Barratt*
<b>PA405</b>	<b>Nebulised pirfenidone in non-idiopathic pulmonary fibrosis (IPF) progressive pulmonary fibrosis (PPF): first look at FVC data</b> Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deepthi Nair, Courtney Thompson, Felix Woodhead
<b>PA406</b>	<b>Outcomes in real-life nintedanib treatment of progressive fibrosing interstitial lung disease.</b> Adriana Callari (palermo, Italy), Elisa Calzolari, Lavinia Martino, Nicola Lanzarone, Vitale Miceli, Patrizio Vitulo
<b>PA407</b>	<b>Role of nintedanib in the treatment of progressive pulmonary fibrosis (PPF) in daily clinical practice.</b> Fatima Andres Franch (Sueca (Valencia), Spain), Ignacio Salvador Alvarez Martínez, Mario Andújar Llamazares, Daniel Segura Ayala, Elsie Daviana Meneses Petersen, Luis Cabanes López, Laura Novella Sánchez, Jose Ramon Ferrando Gabarda, Maria Meseguer Sisternes, Inmaculada Lluch Tortajada, Elsa Naval Sendra
<b>PA408</b>	<b>Real-world of Nintedanib in a Spanish non-IPF progressive pulmonary fibrosis cohort</b> Vanesa Vicens Zygmunt (Castelldefels (Barcelona), Spain), Jaume Bordas-Martínez, Miriam Muñoz-Bolaño, João Carnezim-Correia, Ana Belén Llanos-González, Adrià Domingo-Carnice, Dolores Rodríguez-Cumplido, Guadalupe Bermudo-Peloché, Cristian Tebé-Cordomi, Roser Llop-Rius, Maria Molina-Molina
<b>PA409</b>	<b>Impact of oxygenation strategies on outcome in acute exacerbation of interstitial lung disease : A multicenter retrospective study</b> Robin Thévenin (Rouen, France), André Gillibert, Nicolas Dognon, Mélanie Drucbert, Laurie Lagache, Mathieu Salaün, Antoine Cuvelier, Christophe Girault, Élise Artaud-Macari
<b>PA410</b>	<b>Efficacy of mycophenolate mofetil in fibrotic hypersensitivity pneumonitis treatment</b> Ana Filipa Torres Silva (Raimonda, Portugal), Ana Cláudia Pimenta, Margarida Melo Cruz, Natália Melo, Patrícia Caetano Mota, André Terras Alexandre, Hélder Novais Bastos, Oksana Sokhatska, Susana Guimarães, Conceição Souto Moura, André Carvalho, Filipa Aguiar, Vanessa Santos, António Morais
<b>PA411</b>	<b>Progression and tolerance of patients with connective tissue disease-related interstitial lung disease (CTD-ILD) on rituximab treatment</b> Ana Belén Llanos Gonzalez (La Orotava, Spain), José Carlos García Hernández, Sara García Gil, Elisa Trujillo Martín, Verónica Saray Hernández García, Paula Pérez De Armas, Nelson Mesa León, Juan Alfonso Bonilla Arjona, Marta Elena Gómez Gil, María García González, María Vanesa Hernández Hernández, José Federico Díaz González, Orlando Acosta Fernández
<b>PA412</b>	<b>Whole Lung Lavage for Pulmonary Alveolar Proteinosis: A Retrospective Analysis of 33 Cases</b> Philippe Colares (São Paulo (SP), Brazil), Ana Avila, Paula D'Ambrosio, Roberta Sales, Helio Minamoto, Paulo Pêgo-Fernandes

<b>PA413</b>	<b>Clinical, demographic and functional evaluation of patients with hypersensitivity pneumonitis and their comparison based on current diagnostic criteria</b> Guilherme Das Posses Bridi (São Paulo (SP), Brazil), Bianca Freire Da Silva, Marieta Cabral Amaral Da Cunha, Douglas Silva Queiroz, José Leônidas Alves-Jr, João Marcos Salge, Celso R F De Carvalho, Ronaldo Adib Kairalla, Rogerio De Souza, Bruno Guedes Baldi
<b>PA414</b>	<b>Effect of vasodilator therapy on clinical and hemodynamics of patients with pulmonary arterial hypertension, connective tissue disease related pulmonary fibrosis</b> Khaled Saleh (Abu Dhabi, United Arab Emirates), Sumaiya Hafiz, Naureen Khan, Hosam Alazazzi, Stuti Mulls, Hamdan Alawadhi, Jihad Mallat, Hani Sabbour
<b>PA415</b>	<b>Online Mindfulness-Based Interventions (MBI) for palliative care: reducing dyspnea, depression, anxiety, and stress in patients with interstitial lung disease assisted at the UFMG University Hospital</b> Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Siliana Maria Duarte Miranda, Gabriela Patrus Ananias De Assis Pires, Andrew Nogueira Albuquerque Leal, Luiz Fernando Ferreira Pereira, Sara Pinho Cunha Paiva
<b>PA416</b>	<b>Treatment and clinical course of hypersensitive pneumonitis – single center experience</b> Goran Glodić (Zagreb, Croatia), Martina Batarilo Hadar, Dina Rnjak, Mateja Janković Makek, Dina Mihelčić Korte, Feđa Džubur, Dubravka Pelicarić, Andreja Moćan, Tea Lovrić, Lorna Čorak, Marko Banić, Miroslav Samaržija, Ana Hećimović
<b>PA417</b>	<b>Nintedanib for patients with CTD related pulmonary fibrosis: real-life data.</b> Eirini Vasarmidi (Heraklion (Crete), Greece), Pierre-Antoine Juge, Eleni Bibaki, Nikolaos Tzanakis, Raphael Borie, Philippe Dieude, Bruno Crestani, Katerina Antoniou
<b>PA418</b>	<b>Real-life analysis of adherence to antifibrotic treatment in patients with progressive pulmonary fibrosis in Romania – a specialized center-based cohort study</b> Flavia-Gabriela Martis (Arad (Arad), Romania), Daniel Traila, Ovidiu Fira Mladinescu
<b>PA419</b>	<b>Efzofitimid: a novel therapeutic candidate for SSc-ILD</b> Zhiwen Xu (San Diego, United States), David Siefker, Michaela Ferrer, Elizabeth Yu, Lauren Guy, Kaitlyn Rauch, Sofia Klopp-Savino, Leslie Nangle

**PS-16 in poster area****Session 59****08:00 - 09:30****Poster session: Clinical problems in rare interstitial lung diseases****Disease(s) :** [Interstitial lung diseases](#) [Airway diseases](#) [Thoracic oncology](#)**Method(s) :** Epidemiology General respiratory patient care Imaging Public health Endoscopy and interventional pulmonology Cell and molecular biology Pulmonary function testing Transplantation**Tag(s) :** Clinical**Chairs :** Clairelyne Dupin (Paris, France), Francesco Bonella (Düsseldorf, Germany)

<b>PA420</b>	<b>Epidemiology of diffuse interstitial lung disease in children in France: The RespiRare cohort</b> Nadia Nathan (Paris, France), CAMILLE FLETCHER, Alice Hadchouel Duvergne, Caroline Thumerelle, Manon Fleury, Nouha Jedidi, Myriam Benhamida, Katia Bessaci, Raphael Borie, Tiphaine Bilhoue, Jacques Brouard, Aurelie Cantais, Annick Clément, Laurianne Coutier, Pierrick Cros, Marie Laure Dalphin, Christophe Delacourt, Ralph Epaud, Eric Deneville, Antoine Deschildre, Jean-Christophe Dubus, Carole Egron, Michael Fayon, Agnes Fina, Aude Forgeron, Elsa Gachelin, François Galode, Isabelle Gibertini, Lisa Giovannini-Chami, Tamazoust Guiddir, Audrey Herzog, Veronique Houdouin, Eglantine Hullo, Pierre-Henri Jarreau, Geraldine Labouret, Alice Ladaurade, Laurence Le Clainche Viala, Christophe Marguet, Alexandra Masson-Rouchaud, Julie Mazonq, Caroline Perisson, Cinthia Rames, Philippe Reix, Marie-Catherine Renoux, Léa Roditis, Cyril Schweitzer, Aurélie Tatopoulos, Pascale Trioche-Eberschweiler, Françoise Troussier, Clementine Vigier, Laurence Weiss, Marie Legendre, Camille Louvrier, Alix De Becdelievre, Aurore Coulomb, Chiara Siléo, Hubert Ducou Le Pointe, Laureline Bertheloot, Celine Delestrain, CAMILLE FLETCHER
<b>PA421</b>	<b>Is it possible to predict multisystem Langerhans cell histiocytosis with lung involvement based on radiological findings detected by computed tomography?</b> Elżbieta Radzikowska (Warszawa, Poland), Maria Jeskiewicz, Katarzyna Blasinska, Jacek Wakulinski, Malgorzata Sobiecka, Elzbieta Wiatr, Monika Załęska, Renata Langfort, Iwona Bistry
<b>PA422</b>	<b>Drug-induced interstitial lung disease: insights from a referral center</b> Eirini Zarkadi (PATRAS, Greece), Vasilina Sotiropoulou, Panagiota Tsiri, Theodoros Karampitsakos, Matthaïos Katsaras, Ourania Papaioannou, Tsirikos Georgios, Electra Koulousousa, Eva Theochari, Ioannis Christopoulos, Dimitrios Komninos, Elli Malakounidou, Fotios Sampsonas, Argyrios Tzouveleakis

PA423	<p><b>Phenotype-genotype correlations of pediatric patients with biallelic mutations in ABCA3 and SFTPB surfactant-related genes</b> Nadia Nathan (Paris, France), Manon Fleury, Alice Hadchouel, Julie Mazonq, Nouha Jedidi, Camille Fletcher, Myriam Benhamida, Pierrick Cros, Christophe Delacourt, Jean-Christophe Dubus, Carole Egron, Ralph Epaud, Michael Fayon, Aude Forgeron, Lisa Giovanni-Chami, Caroline Perisson, Hortense Petat, Marie-Catherine Renoux, Léa Roditis, Caroline Thumerelle, Clémentine Vigier, Aurore Couloumb, Laureline Berteloot, Chiara Sileo, Alix De Becdelièvre, Pascale Fanen, Marie Legendre, Camille Louvrier</p>
PA424	<p><b>Health related quality of life in childhood interstitial lung disease – an ERS Clinical Research Collaboration</b> Elias Seidl (München, Germany), Mandy Njemitz, Sarah Stöhr, Nicolaus Schwerk, Martin Wetzke, Julia Carlens, Joanna Lange, Katarzyna Krenke, Nagehan Emiralioglu, Nural Kiper, Matthias Griesse</p>
PA425	<p><b>Natural history and outcome of lymphangioleiomyomatosis in Ireland</b> Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Helen O'Brien, Yasuhito Sekimoto, Amina Jouda, Michael Keane, Cormac Mccarthy</p>
PA426	<p><b>The value of multidisciplinary team meetings in the diagnosis and management of childhood interstitial lung disease among the RespiRare network</b> Julie Cassibba (Paris, France), Lauren Bitton, Camille Fletcher, Manon Fleury, Céline Lustremant, Meryem Sari Hassoun, Sabrina Aberbache, Laureline Berteloot, Chiara Sileo, Marie Legendre, Camille Louvrier, Alix De Becdelièvre, Alice Hadchouel, Ralph Epaud, Nadia Nathan</p>
PA427	<p><b>Lower respiratory tract involvement in recurrent respiratory papillomatosis in a multicentric cohort study</b> Thomas Maitre (Paris, France), Romy Ratsihorimanana, Mathieu Dusselier, Gilles Mangiapan, Minh Triet Ngo, Nicolas Guibert, Clément Fournier, M Matar, Stephane Jouneau, Arnaud Bourdin, Thomas Egenod, Delphine Wermert, Nicolas Favrolt, Olivia Freynet, Valérie Gounand, Raphael Borie, Raffaele Caliendo, Jean François Boitiaux, Julie Mankikian, Juliette Camuset, Marc Fortin, Vincent Cottin, Jean Michel Vergnon, Jacques Cadranel</p>
PA428	<p><b>Clinical characteristics of diffuse cystic lung diseases at a national referral centre</b> Helen O'Brien (Ratoath, Ireland), Cara Gill, Marissa O'Callaghan, Evelyn Lynn, Fiona Hickey, Jehangir Khan, Alessandro Franciosi, Michael P Keane, Cormac Mc Carthy</p>
PA429	<p><b>The European ILD Registry algorithm of self assessment (eurILDreg-ASA): pilot study data on prospective, patient-centered capture of symptom burden, quality of life, spirometry, oximetry and exercise capacity</b> Ekaterina Krauss (Giessen, Germany), Laurenz H. Claas, Karen Moor, Maria Molina-Molina, Keerthana Siebert, Silke Tello, Jennifer Naumann, Rebecca Borton, Marlies Wijssenbeek-Lourens, Bruno Crestani, Andreas Guenther</p>
PA430	<p><b>The diagnostic role of transbronchial lung cryobiopsy (TBLC) in Granulomatous-Lymphocytic Interstitial Lung Disease (GLILD) associated to Common Variable Immunodeficiency (CVID)</b> Ilaria Menichini (Roma (RM), Italy), Claudia Ravaglia, Sara Piciucchi, Alessandra Dubini, Venerino Poletti</p>
PA431	<p><b>Radiological and genetic diversity of inherited ILDs revealed within a regional familial pulmonary fibrosis service</b> Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom), Helen Parfrey, Mostin Hu, Christine Fiddler, Eamonn Maher</p>
PA432	<p><b>Analysis of Clinical Characteristics of Connective Tissue Disease-Associated Interstitial Lung Disease in 225 Patients: A Prospective Study</b> Ketfi Abdelbassat (Alger, Algeria), Rama Touahri, Cherifa Djouadi</p>
PA433	<p><b>Lung Transplant in hypersensitivity pneumonitis patients.</b> Carolina Santamaría Valencia (Maspalomas, Spain), Iovanna Socorro Ávila, Cristina Ayuela Lacaba, Myriam Aguilar Perez, Christian García Fadul, Rosalía Laporta Hernandez</p>
PA434	<p><b>Diagnostic Criteria Arrangement in Nationwide All ILD Registry with Central MDD in Japan; PROMISE study</b> Yasuhiro Kondoh (Seto (Aichi), Japan), Taiki Furukawa, Ryo Teramachi, Hironao Hozumi, Takafumi Suda, Tomoyuki Fujisawa, Ryoko Egashira, Takeshi Johkoh, Junya Fukuoka, Masataka Kuwana, Takashi Ogura, Yasunari Miyazaki, Masashi Bando, Yoshikazu Inoue, Hiromi Tomioka, Yasuhiko Nishioka, Hirofumi Chiba, Masahito Ebina, Kazuya Ichikado, Naozumi Hashimoto, Makoto Ishii</p>
PA435	<p><b>Clinical and radiologic differences between patients with combined pulmonary fibrosis and emphysema and a matched emphysema cohort</b> Tal Ardon (Tel Aviv, Israel), Omer Kersh, Ophir Freund, Tamar Shalmon, Tzlil Hershko, Amir Bar-Shai, Galit Aviram, Avraham Unterman</p>
PA436	<p><b>Diagnostic testing for GLILD in Common Variable Immunodeficiency: A Systematic Review</b> Heba M Bintalib (London, United Kingdom), Annick A J M Van De Ven, Joseph Jacob, Jesper R. Davidsen, Børre Fevanga, Leif G Hanitsch, John Routes, Marion Malphettes, Joris Van Montfrans, Paul J. Maglioned, Cinzia Milito, Klaus Warnatz, John R Hurst</p>
PA437	<p><b>Prevalence of lung cysts – are we missing incidental cystic lung disease?</b> Saher Sultan (Nottingham, United Kingdom), Michael Avoseh, Dominic Shaw, Simon Johnson</p>



**PA438 Level of information of patients with lymphangiomyomatosis – room for improvement!**  
Finn Wilkens (Heidelberg, Germany), Christoph Lederer, Claudia Ganter, Catrin Ender, Heinrike Wilkens, Nicolas Kahn, Katharina Buschulte, Katharina Kriegsmann, Michael Kreuter

**PA439 Primary myoepithelioma of the lungs: a case report**  
Mila Rose Gonzalez (Dumaguete, Philippines), Caesar Antonio Ligo, Dehuel Cuyacot, John Anthony Tindoc

**PS-17 in poster area Session 60 08:00 - 09:30**

**Poster session: Basic mechanism in pulmonary hypertension**

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Cell and molecular biology Physiology

**Tag(s) :** Basic science

**Chairs :** Andrea Olschewski (Graz, Austria), Frances S. de Man (Amsterdam, Netherlands)

**PA440 Size does matter: a simple swine model of chronic pulmonary hypertension**  
Liliana Moreira-Costa (Porto, Portugal), André M Leite-Moreira, Rui Adão, Isabel Miranda, Rui Cerqueira, Frederic Perros, Adelino F Leite-Moreira, André P Lourenço, Pedro Mendes-Ferreira

**PA441 Targeting ATP Citrate Lyase to mitigate Vascular Remodeling Pathogenesis.**  
Yann Grobs (quebec, Canada), Charlotte Romanet, Alice Bourgeois, Sarah-Eve Lemay, Tsukasa Shimauchi, Sandra Breuils-Bonnet, Mabrouka Salem, Francois Potus, Steeve Provencher, Pierre Voisine, Olivier Boucherat, Sebastien Bonnet

**PA442 Proteomic profiling of pulmonary hypertension associated with respiratory disease**  
Adelaida Bosacoma (Barcelona, Spain), Agustin Garcia, Juan José Lozano, Julia Sidorova, Isabel Blanco, Clara Martin, Olga Tura-Ceide, Victor Ivo Peinado, Diego Rodríguez, Manuel López-Meseguer, Fernanda Hernández-González, Jesús Ribas, Xavier Pomares, Salud Santos, Maria Molina-Molina, Jacobo Sellarés, Joan Albert Barberà

**PA443 Role of Bone Morphogenetic Protein-9 in the development of Hepatopulmonary Syndrome**  
Fabien Robert (Le Kremlin Bicêtre, France), Ly Tu, Marie Caroline Certain, Raphael Thuillet, Mina Ottaviani, Audrey Baron, Agnes Castan, Sabine Bailly, Marc Humbert, Olivier Sitbon, Christophe Guignabert, Laurent Savale

**PA444 The role of miR-146a in the pathophysiology of pulmonary arterial hypertension**  
Joana Gomes (Porto, Portugal), Pedro Ferreira, Rui Adão, Carolina Rocha, Inês Vasconcelos, Adelino Moreira, Carmen Silva

**PA445 Selective inhibition of Histone deacetylases reverses vascular remodeling and improves right ventricle function in pulmonary hypertension**  
Konda Babu Kurakula (Amsterdam, Netherlands), Xiao-Qing Sun, Sebastien Bonnet, Rolf Mf Berger, Harm Jan Bogaard, Marie-José Goumans

**PA446 The role of BMP9-induced Sema3G in pulmonary vascular stability**  
Sarah Mirza (Cambridge, United Kingdom), Benjamin Dunmore, Nicholas Morrell

**PA447 Cannabidiol alleviates cardiac fibrosis probably through inhibiting endothelial-to-mesenchymal transition in rat model of pulmonary hypertension**  
Anna Krzyżewska (Białystok, Poland), Marta Baranowska-Kuczko, Irena Kasacka, Hanna Kozłowska

**PA448 Osteopontin in experimental right ventricular remodeling**  
Argen Mamazhakypov (Bishkek, Kyrgyzstan), Norbert Weissmann, Ardeschir Ghofrani, Ralph Schermuly, Akylbek Sydykov

**PA449 Targeting DHPS-mediated hypusination of eIF5A improves vascular remodeling in PAH**  
Sarah-Eve Lemay (Quebec, Canada), Yann Grobs, Sandra Martineau, Mabrouka Salem, Tsukasa Shimauchi, Alice Bourgeois, Sandra Breuils-Bonnet, François Potus, Steeve Provencher, Sébastien Bonnet, Olivier Boucherat

**PA450 HS135, A Novel Activin and GDF Trap, is Highly Efficacious in Models of Group 1 and Group 2 Pulmonary Hypertension (PH)**  
Gauthier Schang (Montreal, Canada), Mathilde Poujol De Molliens, Emilie Brûlé, Ariane Sours, Cristina Chauvet, Jean-François Denis, Vannakambadi Ganesh, Gilles Tremblay, Julia Schoelermann, Maureen O'Connor-Mccourt

**PA451 Empagliflozin improves mitochondrial biogenesis and ameliorates vascular remodeling in experimental pulmonary arterial hypertension**  
Erik Duijvelaar (Amsterdam, Netherlands), Keimei Yoshida, Xiao-Qing Sun, Beau Neep, Xiaoke Pan, Takayuki Jujo, Yu Yoshida, Jurjan Aman, Frances Sarah Handoko-De Man, Harm Jan Bogaard

**PA452 Differential responses of pulmonary vascular cells from PAH patients and controls to TNF $\alpha$  and the effect of the BET inhibitor JQ1.**  
Ian M. Adcock (London, United Kingdom), Sharon Mumby, Stephen Wort, Fred Perros, Marc Humbert, Gaetano Caramori

- PA453** **The Fibronectin-Binding Integrins System as a Contributor to PAH Pathogenesis**  
Sarah-Eve Lemay (Quebec, Canada), Mónica S Montesinos, Yann Grobs, Tetsuro Yokokawa, Tsukasa Shimauchi, Sandra Breuils-Bonnet, Sandra Martineau, Alice Bourgeois, Mabrouka Salem, Charlie Théberge, Reem El Kabbout, Charlotte Romanet, Min Lu, Xinqiang Huang, James E Dowling, Adrian S Ray, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet
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- PA454** **SMAD5 as a novel gene for familial pulmonary arterial hypertension**  
Ding Cao (Heidelberg, Germany), Yuriy Sirenko, Ganna Radchenko, Henning Gall, Ayat Ahmed, Susanne Theiß, Simon Haas, Memoona Shaukat, Zoe Saßmannshausen, Nicola Benjamin, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Katrin Hinderhofer, Ekkehard Grünig, Magdalena Laugsch, Christina Eichstaedt
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- PA455** **Alpha-B crystallin regulates apoptosis in idiopathic pulmonary hypertensive smooth muscle cells**  
DONGQI XING (Birmingham, United States), R. Chad Wade, Jacelyn E Peabody Lever, Teodora Nicola, Vivian Y Lin, Yixin Wu, Gregory A Payne, Jarrod W Barnes, J. Michael Wells
- 
- PA456** **The matrikine Ac-PGP mediates the pathogenesis of pulmonary hypertension**  
Xin Xu (Birmingham, United States), Mojtaba Abdul Roda, Dongqi Xing, Jindong Li, Carmel McNicholas-Bevensee, Gregory A Payne, Liliana Viera, Rakesh Patel, J. Michael Wells, Gert Folkerts, J. Edwin Blalock, Amit Gaggar
- 
- PA457** **Synthesis of CeO<sub>2</sub>@BSA Nanoclusters for Inhibition of Pulmonary microvascular endothelial Cell Dysfunction and Improvement of Rat Vascular Reconstitution**  
Ping Yuan (Shanghai, China), Hui Zhao, Wenhui Wu, Yuqing Miao
- 
- PA458** **Role of histone acetyltransferases P300/CBP in pulmonary arterial hypertension and right heart failure**  
Alice Bourgeois (Québec, Canada), Sarah-Eve Lemay, Yann Grobs, Charlotte Romanet, Sandra Breuils-Bonnet, Mabrouka Salem, Sandra Martineau, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet
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- PA459** **Remodeling of pulmonary arterial (PA) endothelial basement membrane (BM) triggers smooth muscle cell (SMC) hyperplasia in pulmonary hypertension due to left heart disease (PH-LHD)**  
Mariya Kucherenko (Berlin, Germany), Netra Nambiar Veetil, Tara Gransar, Shao-Fei Liu, Robert Szulcek, Volkmar Falk, Christoph Knosalla, Wolfgang M. Kuebler

**PS-18 in poster area****Session 61****08:00 - 09:30****Poster session: Interventional bronchoscopy: advances in probes, needles and more****Disease(s) :** Thoracic oncology Airway diseases Interstitial lung diseases**Method(s) :** Endoscopy and interventional pulmonology**Tag(s) :** Clinical**Chairs :** Peter I. Bonta (Amsterdam, Netherlands), Konstantina Kontogianni (Heidelberg, Germany)

- PA460** **Endoscopic aspergilloma management for non-surgical patients**  
Elaine Dumoulin (Calgary (AB), Canada), Christina Thornton, Chrystal Chan, Paul Maceachern, Christopher Mody
- 
- PA461** **Bronchial rheoplasty for chronic bronchitis – a national case series.**  
Kristine Jensen (Hundested, Denmark), Hans Henrik Schultz, Erik Lilja Secher, Anna Kalhauge, Thomas Kromann Lund, Jann Mortensen, Michael Perch
- 
- PA462** **Does stent shape affect results in Post-Intubation Tracheal Stenosis?**  
Hanna Dawood (Athens, Greece), Nektarios Anagnostopoulos, Evangelia Koukaki, Andriana Papaioannou, Grigoris Stratakos
- 
- PA463** **Prognostic factors after airway stenting for malignant tracheo- or broncho-oesophageal fistulas.**  
Juliette Edme (Toulouse, France), Clément Fournier, Claudia Zea Obando, Laurent Cellierin, Frederic Wallyn, Samy Lachkar, Thomas Egenod, Christophe Gut Gobert, Loic Perrot, Christine Lorut, Jean Michel Vergnon, Valerian Bourinet, Julien Legodec, Benoit Lepage, Herve Dutau, Nicolas Guibert
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- PA464** **Diagnostic yield and safety of Trans-Bronchial Cryo-Biopsy from right upper lobe**  
Elad Guber (Kfar saba, Israel), Ayal Romem, Hadas Gilboa, David Shitrit
- 
- PA465** **Endobronchial cryobiopsy shortens the time to cancer diagnosis.**  
Kristian Brat (Brno, Czech Republic), Nela Stastna, Michaela Heroutova, Ivan Cundrle Jr
- 
- PA466** **Utility of cryobiopsy in peripheral pulmonary lesions for next-generation sequencing**  
Yuji Matsumoto (Tokyo, Japan), Hideaki Furuse, Tatsuya Imabayashi, Keigo Uchimura, Takaaki Tsuchida
- 
- PA467** **The ThinICE protocol: the combination of cryobiopsy and ultraThin bronchoscopy for the peripheral lung nodule.**  
Leonardo Giuntoli (montecatini terme, Italy), Luca Ciani, Valentina Luzzi, Marco Trigiani, Gori Leonardo, Lorenzo Corbetta, Alessandra Sorano, Alessandro Fusco, Giorgio Vitale, Valeria Pasini, Elisabetta Rosi, Federico Lavorini, Camilla Comin, Sara Tomassetti

PA468	<b>Diagnostic utility and safety of non-intubated cryobiopsy using a 1.1-mm cryoprobe for peripheral pulmonary lesions</b> Toshiyuki Nakai (Osaka, Japan), Tetsuya Watanabe, Kazuhiro Yamada, Misako Nishimura, Atsushi Miyamoto, Yoshiya Matsumoto, Kenji Sawa, Kanako Sato, Kazuhisa Asai, Yuji Matsumoto, Yu Mikami, Tomoya Kawaguchi
PA469	<b>A randomised trial of transbronchial mediastinal cryobiopsy versus forceps biopsy for the diagnosis of mediastinal lesion</b> Felix J.F. Herth (Heidelberg, Germany), Ye Fan, Wan-Lei Fu, Zan-Sheng Huang, Jing Wang
PA470	<b>The diagnostic yield of aspirated material in EBUS-TNBA suction syringe: a prospective single center study.</b> Ayal Romem (Jerusalem, Israel), Elad Guber, David Shitrit
PA471	<b>Identification of EGFR mutations in transbronchial cryobiopsies</b> Sergio Alejandro Menchaca (TLALPAN, Mexico), Olivia Sanchez Cabral, Cira Santillan Diaz
PA472	<b>Prevalence of Immune-mediated Inflammatory Diseases in Patients with Lung Cancer</b> Anna Casartelli (Maslianico, Italy), Marina Saad, Francesca Mandurino Mirizzi, Debora Maria Spitaleri, Lisa Milani, Giuseppe Croce, Giada Lazzaroni, Dejan Radovanovic, Pierachille Santus
PA473	<b>The safety and practices of performing endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) without an anesthesiology team: experience from a tertiary centre</b> Grgur Salai (Zagreb, Croatia), Robert Gecevic, Ivona Kovacevic, Ivan Marasovic, Darjan Ranilovic, Tajana Stoos Veic, Divo Ljubicic
PA474	<b>Endobronchial ultrasound guided transvascular needle aspiration for lung tumor diagnosis</b> Maciej Gnass (Myślenice, Poland), Piotr Gniady, Agnieszka Knapczyk, Damian Czyżewski, Piotr Krudys, Alina Szymczyk, Piotr Kocoń, Artur Bartczak, Artur Szlubowski
PA475	<b>High flow nasal cannula (HFNC) during EBUS TBNA – enough evidence so far? A real world study.</b> Sonja Badovinac (Zagreb, Croatia), Goran Glodić, Stela Majetić, Denis Baričević, Dražena Srdić, Filip Popović, Feđa Džubur, Marta Koršić, Miroslav Samaržija
PA476	<b>Evaluation of tissue adequacy in patients with malignant intrathoracic lymphadenopathy undergoing endobronchial ultrasound-guided miniforceps biopsy (EBUS-MFB) added on EBUS-TBNA compared to EBUS-TBNA alone</b> Pipu Tavornshevin (Bangkok, Thailand), Vorawut Thanthitaweevat, Thitiwat Sriprasart, Virissorn Wongsrichanalai, Poonchavist Chantranuwatana, Nophol Leelayuwatanakul
PA477	<b>Tissue coagulum clot cellblock from EBUS-TBNA for the diagnosis of necrotic lung and mediastinal lesions.</b> Chun Ian Soo (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Leng Cheng Sia, Vijayan Munusamy, Nur Husna Ibrahim, Ka Kiat Chin, Thian Chee Loh, Juinn Liang Tan, Sook Ling Low, Mau Ern Poh, Chee Kuan Wong, Yong Kek Pang, Chong Kin Liam
PA478	<b>Endobronchial ultrasound guided transbronchial lymph node cryobiopsy (EBUS-TBLNC): a new approach to mediastinal pathology.</b> Alessandro Fusco (Latina, Italy), Luca Ciani, Marco Trigiani, Valentina Luzzi, Leonardo Giuntoli, Leonardo Gori, Federico Lavorini, Sara Tomassetti

## PS-19 in poster area

## Session 62

08:00 - 09:30

## Poster session: Seeing is believing: new interventions in respiratory education

Disease(s) : **Airway diseases** **Respiratory critical care** **Interstitial lung diseases** **Thoracic oncology**

Method(s) : General respiratory patient care Respiratory intensive care Endoscopy and interventional pulmonology Public health Cell and molecular biology Epidemiology Imaging Surgery Palliative care

Tag(s) : Clinical

Chairs : Pierantonio Laveneziana (Paris, France), Chair to be confirmed

PA480	<b>High-Fidelity Simulation Enhances Trainee Confidence in Lung Cancer Multidisciplinary Team Meetings</b> Colette Davidson (Dundee (Angus), United Kingdom), Jessica Little*, Kishen Patel, Ewan Mackay, Karen Tipples, Adam Januszewski, William Ricketts
PA481	<b>Radial EBUS Service Evaluation Audit in a U.K University Hospital</b> Aanchal Mehta (Liverpool, United Kingdom), James Ayathamattam, Suman Paul
PA482	<b>The impact of pre-testing on post-test bronchoscopy competence in a simulation setting.</b> Eveline Gerretsen (Maastricht, Netherlands), Marleen Groenier, Erik Van Der Heijden, Walther Van Mook, Jouke Annema, Frank Smeenk

PA483	<b>Patient-Derived iPSC Models of Interstitial Lung Disease: An Evaluation of the Open-ILD COST Innovator Grant Training School</b> Anja Schweikert (Dublin, Ireland), Sarah Kenny, Irene Oglesby, Arlene Glasgow, Chiara De Santi, Ingrid Gensch, Nico Lachmann, Tifenn Desroziers, Camille Fletcher, Deborah Snijders, Nadia Nathan, Killian Hurley
PA484	<b>Flexible bronchoscopy course with simulation improves confidence for junior medical trainees</b> Harry Mitchell (London, United Kingdom), Rahul Mogal, Andrew Barlow
PA485	<b>E-Learning as an interventional element to improve weaning expertise as part of the PRiVENT (prevention of invasive ventilation) project</b> Julia Dorothea Michels (Heidelberg, Germany), Janina Schubert-Haack, Benjamin Neetz, Katrin Tanck, Gabriele Iberl, Axel Kempa, Claus Neurohr, Alessandro Ghiani, Christoph Andritschky, Armin Schneider, Patrick Gehrig, Simone Britsch, Mascha O. Fiedler, Joachim Szecsenyi, Felix J.F. Herth
PA486	<b>The use of social media to raise public awareness for long-term invasive mechanical ventilation: First results of the public relations campaign as part of the PRiVENT project</b> Franziska Trudzinski (Heidelberg, Germany), Nicola Litke, Olaf Buntmeyer, Simone Janssen, Axel Kempa, Claus Neurohr, Armin Schneider, Joachim Szecsenyi, Elena Biehler, Thomas Fleischauer, Felix Jf Herth, Julia D. Michels
PA487	<b>The optimal inpatient chronic obstructive pulmonary disease algorithm</b> Charlene Blumenthal (Reno, United States), Farah Madhani-Lovely, Jason Farnsworth, Amber Beck, John Lynn
PA488	<b>Co-creation of a self-learning programme for patients with asthma: patients' and health professionals' perspectives on the relevant topics</b> Ana Sá-Sousa (Vila Nova de Gaia, Portugal), Cristina Jácome, Nancy Fonseca, Tânia Rodrigues, Silvana Fernandes, Emília Dias Da Costa, Rita Amaral, Paula Matos, Margarida Areia, Liliana Dias, Marisa Vilaverde, Cláudia Chaves Loureiro, José Laerte Boechat, Daniela Figueiredo, Ana Luisa Neves, Pedro Simões, Luís Tabora Barata, João Almeida Fonseca
PA489	<b>Mobile application for asthma patients: is there an interest?</b> sofia Farhat (agadir, Morocco), Nada Boutbagha, Hanane Ikrou, Houssame Ennaceri, Abdelmajid Oulahbib, Younes Essaid, Oussama Halloumi, Aboubakr Imzil, Abdelkarim Khannous, Khadija Ait Nacer, Fatiha Bounoua, Hind Serhane, Houda Moubachir
PA490	<b>Inhaler technique in a pediatric emergency department: Impact of an educational intervention among healthcare professionals in Greece</b> Elpis Hatziaorou (Panorama, Thessaloniki, Greece), Athina Karageorgiou, Fotios Kyrvasillis, Elissavet-Anna Chrysochoou, John Tsanakas
PA491	<b>An assessment of the information and educational needs of patients and caregivers of people with primary ciliary dyskinesia: an ERS clinical research collaboration</b> Jobst Röhmel (Berlin, Germany), Laura Behan, Myrofora Goutaki, Amelia Shoemark, Jeanette Boyd
PA492	<b>Assessment of thoracic ultrasound skills in immersive virtual reality</b> Anders Bo Nielsen (Odense C, Denmark), Niels Jacobsen, Christian Laursen, Lars Konge, Pia Iben Pietersen
PA493	<b>Application of big data analysis and telemedicine technology to screening and treatment in COVID-19</b> Hung-Chueh Peng (Douliou, Taiwan), Chung-Yu Chen, Matthew Huei-Ming Ma, Juey-Jen Hwang
PA494	<b>Management of breathlessness: an ERS early career members online survey</b> Inès Zitouni (Cergy, France), Maria Joana Pereira Catarata, Carolina Gotera, Niki Ubags, Thomas Gille, Hilario Nunes, Anne Claire Toffart, Maxime Patout, Boris Duchemann
PA495	<b>The impact of COVID-19 on early career members (ECMs): an ERS ECM survey</b> Thomas Gille (Bobigny, France), Maxime Patout, Niki Ubags, Sheila Ramjug, Jana De Brandt, Tiago Alfaro, Merel Hellemons, Lowie E G W Vanfleteren, Joana Cruz, Catharina C. Moor, Carolina Gotera, Oriane Dumas, Marc Humbert, Anita Simonds
PA496	<b>Respiratory education in Germany - an online-based survey of final-year medical students and chief physicians</b> Espen Elias Groth (Hamburg, Germany), Erik Büscher, Julia Wälscher, Thomas Bahmer, Matthias Raspe, Nina Sicker, Christoph Fisser
PA497	<b>Impact of an international medical education collaboration between industry and medical associations</b> Ebru YILDIZ (Istanbul, Turkey), Bhumika Aggarwal, Sudeep Acharya, Gur Levy
PA498	<b>Internationally use of objective structured clinical examination (OSCEs) in respiratory training: an ERS early career member survey</b> Etienne-Marie Jutant (Poitiers, France), Lucile Sese, Maeva Zysman, Thomas Gille, Jonathan Messika, Bernard Maître, Maxime Patout

## PS-2 in poster area

## Session 63

08:00 - 09:30

## Poster session: Pulmonary physiology: implications for pulmonary rehabilitation

Disease(s) : Airway diseases Interstitial lung diseases Respiratory critical care

Method(s) : Epidemiology Physiology General respiratory patient care Pulmonary rehabilitation Cell and molecular biology  
Respiratory intensive care Pulmonary function testing

Tag(s) : Clinical

Chairs : Audrey Borghi Silva (São Carlos (SP), Brazil), Ernesto Crisafulli (Modena (MO), Italy)

PA499	<b>CPET in Long COVID (LC) patients (pts) with dyspnea and fatigue</b> Paraskevi Katsaounou (Athens, Greece), Archodoula Adonoglou, Adreas Asimakos, Stavroula Spetsioti, Pandelis Gounopoulos, Eleni Kostantinidou, Dimitris Spagoulakis, Stavros Patrinos, Adonis Kodaxakis, Aspasia Mavronassou, Martha-Spyridoula Katsarou
PA500	<b>Combined Respiratory Muscle Training improves Long Covid symptoms - results from the Covid Virtual Recovery Study</b> Nina Bausek (Gloggnitz, Austria), Meredith, G Shea, Courtney, M Wheatley-Guy, Bruce Johnson
PA501	<b>Effects of manuel therapy and inspiratory muscle training on respirotary functions, fatigue and activities in children with muscular disease</b> Burcu Işıkçı (ZEYTİNBURNU, Turkey), Ahu Gizem Akkuş, Yasemin Buran Çırak, Gül Deniz Yılmaz Yelvar, Nurgül Dürüstkan Elbaşı, Yunus Emre Tütüneken, Kübra Kardeş
PA502	<b>Physiological effects of nasal high flow therapy in people with chronic obstructive pulmonary disease during exercise.</b> Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Pauline Smondack, Helena Brunel, Yann Combret, Clément Médrinal, Guillaume Prieur, Fairuz Boujibar, Thomas Similowski, Jean-François Muir, Antoine Cuvelier, Maxime Patout
PA503	<b>Clinical assessment of endothelial function in patients with chronic obstructive pulmonary disease undergoing pulmonary rehabilitation</b> Claudio Candia (Naples, Italy), Pasquale Ambrosino, Giuseppina Marcuccio, Silvestro Ennio D'Anna, Salvatore Fuschillo, Roberto Formisano, Lucia Abagnale, Anna Lanzillo, Antonio Molino, Mauro Maniscalco
PA504	<b>Effectiveness assessment of oscillating positive expiratory pressure (OPEP) devices: Using a clinically relevant laboratory measure</b> Jason Suggett (London (ON), Canada), Rob Costa
PA505	<b>Estimation of the minimal important difference (MID) for the 1 repetition max (1RM) in COPD</b> George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan
PA506	<b>Impaired training-induced myogenesis in COPD is due to blunt expression of extracellular matrix proteins.</b> Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Efraxia Kritikaki, Gerasimos Terzis, Ioannis Vogiatzis
PA507	<b>Interval-load vs constant-load upper limb exercise in patients with COPD: a cross-over study</b> Mara Paneroni (Mazzano (BS), Italy), Alessandro Cavicchia, Beatrice Salvi, Laura Bertacchini, Michele Vitacca
PA508	<b>Estimation of the minimal important difference (MID) of quadriceps maximum voluntary contraction (QMVC) in response to pulmonary rehabilitation (PR) in COPD</b> George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan
PA509	<b>Effect of Baduanjin combined with singing therapy on respiratory function of COPD patients</b> Qiao Qiao (Changchun, China), Hongjing Lin
PA510	<b>Strength, effort tolerance and muscle fatigue in COPD patients under Long Term Oxygen Therapy: role of different obstruction severity</b> Alessandro Cavicchia (Verona, Italy), Michele Vitacca, Beatrice Salvi, Laura Bertacchini, Massimo Venturelli, Mara Paneroni
PA511	<b>Immediate Effects of Thoracic Manual Therapy on Pulmonary Function in Stroke Patients</b> Yunus Emre Tutuneken (İstanbul, Turkey), Emine Atici, Kenan Gul, Yasemin Buran Çırak, Kubra Kardes, Nurgül Dürüstkan Elbaşı, Burcu Işıkçı
PA512	<b>Reliability of remote 1-minute sit-to-stand test to measure physical capacity in patients with chronic respiratory diseases</b> Santiago Larrateguy (Paraná, Argentina), Matias Otto-Yañes, Juan Bogado, Luis Larrateguy, Isabel Blanco, Elena Gimeno-Santos, Rodrigo Torres-Castro

- PA513** **Reference values for the 1-minute sit-to-stand test for the Argentine population**  
Santiago Larrateguy (Paraná, Argentina), Santiago Burgos, Rocio Iglesias, Laura Carrizo, Martin Cestari, Santiago Saavedra, Luis Larrateguy, Matias Otto-Yañez, Guillermo Mazzucco, Elena Gimeno-Santos, Rodrigo Torres-Castro
- PA514** **Modified six-minutes walk test in children with medical complexity and chronic lung disease**  
Gregory Villarroel Silva (Santiago, Chile), Macarena Faúndez Silva, Paula Vera Tapia, Gonzalo Moscoso Altamira, Barbara Moya Torres, María Jose Miranda Miño, Ignacio Oyarzun Aguirre
- PA515** **Biomarkers differentiating acute heart failure from COPD exacerbations: not much evidence**  
Sanne H B van Dijk (Enschede, Netherlands), Marjolein G J Brusse-Keizer, Charlotte C Bucsán, Eline H Ploumen, Wendy J C Van Beurden, Job Van Der Palen, Carine J M Doggen, Anke Lenferink
- PA517** **Findings from a modified six-minute walk test (m-6MWT) in patients attending the long COVID clinic**  
Emma Denny (London, United Kingdom), Robert Chapman, Rebecca Evans, Ewen Brennan, Rebecca Livingston, Rebecca Gore, Helen Purcell, Joanna Porter, Jeremy Brown, Ronan Astin, Toby Hillman, Melissa Heightman
- PA518** **Relevance of multidimensional dyspnea assessment in context of pulmonary rehabilitation**  
Virginie Molinier (Lodève, France), Espérance Moine, Pauline Caille, Nathalie Fernandes, Francois Alexandre, Nelly Heraud

**PS-20 in poster area** **Session 64** **08:00 - 09:30**

**Poster session: How much can we afford? The balance of costs and clinical benefits in the light of chronic respiratory diseases**

**Disease(s) :** **Airway diseases** **Respiratory critical care**

**Method(s) :** General respiratory patient care Epidemiology Public health Respiratory intensive care Palliative care

**Tag(s) :** Clinical

**Chairs :** Sylvia Hartl (Wien, Austria), Stylianos Loukides (Athens, Greece)

- PA520** **Estimating costs associated with paediatric Respiratory Syncytial Virus infection managed in the hospital setting in England.**  
Rebecca Butfield (Tadworth, United Kingdom), Jack Said
- PA521** **A cost and environmental analysis of a vibrating mesh nebuliser**  
Amy Dymond (York, United Kingdom), Daniela Afonso, Stuart Mealing
- PA522** **Health, environmental, and societal impact of asthma care pathway in the UK: A cost-of-illness study**  
Martina Orlovic (Parma, Italy), Dimitrios Tzelis, Ines Guerra, Vlada Bar-Katz, Nicolas Wolley, Hannah Bray, Mohammed Hanslot, Omar Usmani, Alessandra Madoni
- PA523** **Cost effectiveness analysis of treatments for children with uncontrolled asthma symptoms despite taking inhaled corticosteroids**  
Giovanna Culeddu (Bangor, United Kingdom), Ian Sinha, Sarah Donegan, Michelle Maden, Sofia Cividini, Katie Rose, Olivia Fulton, Stephen Turner, Catrin Tudor Smith, Dyfrig A. Hughes
- PA524** **Development, validation and application of an asthma cost-effectiveness model for value assessment of digital inhaler adherence enhancing strategies**  
Susanne J. van de Hei (Groningen, Netherlands), Chong H. Kim, Persijn J. Honkoop, Jacob K. Sont, Tjard R.J. Schermer, Elaine Mac Hale, Richard W. Costello, Janwillem W.H. Kocks, Maarten J. Postma, Job F.M. Van Boven
- PA525** **Direct health care cost of Chronic Obstructive Pulmonary Disease (COPD) in Morocco: a cost of illness study.**  
Soumaya Benmaamar (FEZ, Morocco), Btissame Es-Sabbahi, Mohamed Teghi Heiba, Mohamed Omari, Ibtissam El Harch, Mohammed Youbi, Latifa Belakhhel, Loubna Abousselham, Hafid Hachri, Imane El Menchawyi, Samira El Fakir, Mohammed Chakib Benjelloun, Nabil Tachfouti
- PA526** **ANALYSIS OF THE CLINICAL CHARACTERISTICS AND COMORBIDITIES OF PATIENTS WITH COPD AND HOME MECHANICAL VENTILATION**  
Adriana Martin Pascual (Tiana, Spain), Marina Galdeano Lozano, Carmen Fernandez Arias, Ariadna Ning Morancho Pallaruelo, Guillem Hernandez Guillamet Hernandez Guillamet, Francesc López Seguí, Agnes Hernández Biette, Irene Aldás Criado, Antoni Marin Muñoz, Monica Matute Villacis, Ignasi Garcia Olivé, Jorge Abad Capa
- PA527** **Feelings of Family Members of Patients with Chronic Respiratory Disease Before and After the Introduction of Home Oxygen Therapy**  
Rika Tonami (Fukui, Japan), Miyuki Sato, Keiko Kobayashi, Keiko Kobayashi

**PA528** **The last hours in a pulmonology ward: a retrospective look at end-of-life care**  
Joana Da Silva Cruz Gameiro Duarte (Oeiras, Portugal), Rita Enriquez, Catarina Amorim, Fernanda Mendes, Maria Conceicao Alvarenga Santos, Margarida Duarte Barata, Nidia Caires, Raquel Rosa, Teresa Martín, Inês Claro, Filipa Todo Bom

**PA529** **Evaluation of an audio-visual informed consent procedure in a diagnostic tuberculosis trial**  
Luis Gómez Paciello (Concepción, Paraguay), Floryn Schippers, Ana Aguiar, Cecile Magis

**PA530** **Late Breaking Abstract - Cradle-to-grave emission reduction for dry powder inhaler product portfolio**  
Satu Lähelmä (Kuopio, Finland), Hanna Hisinger-Mölkänen, Matleena Inget, Noora Paronen

**PS-3 in poster area****Session 65****08:00 - 09:30****Poster session: Chronic obstructive pulmonary disease diagnosis and management in primary care****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Epidemiology Pulmonary function testing Public health Pulmonary rehabilitation**Tag(s)** : Clinical**Chairs** : Malek Chaabouni (Hamburg, Germany), Stephen Holmes (Somerset, United Kingdom)

**Baseline Characteristic of participants in the National COPD Screening Program in China**  
Ke Huang (Beijing, China), Jieping Lei, Wei Li, Jun Pan, Cunbo Jia, Ting Yang

**PA531** **Sex differences in mortality among COPD patients: the French Palomb Cohort.**  
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouailaya, Laurent Falque, Laurent Nguyen, Annaig Ozier, Alain Bernady, Emilie Berteaud, Julien Casteigt, Frédéric Le Guillou, Jean Moinard, Mohamed Staali, Cécilia Nocent, Mathieu Molimard, Chantal Raheison-Semjen

**PA532** **Chronic respiratory disease in patients with excluded coronary artery disease: a prospective pilot study.**  
Christoph Beyer (Innsbruck, Austria), Anna Boehm, Alex Pizzini, Philipp Grubwieser, Gudrun Feuchtnr, Axel Bauer, Guenter Weiss, Judith Loeffler-Ragg, Guy Friedrich, Fabian Plank

**PA533** **COUGH AND SPUTUM PRODUCTION ARE ASSOCIATED WITH AGE AND TOTAL NUMBER OF EXACERBATION/PATIENT/YEAR IN COPD SUBJECTS.**  
Karim KHENNOUF (ALGIERS, Algeria), Souad Souilah, Yacine Benbetka, Abdelkarim Saadi, Samya Taright

**PA534** **A qualitative study exploring current spirometry provision in England and the potential role of Artificial Intelligence**  
Gillian Doe (Leicester, United Kingdom), Steph Taylor, Marko Topalovic, Richard Russell, Rachael Evans, Julie Maes, Karolien Van Orshoven, Anthony Sunjaya, David Scott, Toby Prevost, Ethaar El-Emir, Jennifer Harvey, Nick Hopkinson, Samantha Kon, Suhani Patel, Ian Jarrold, Nanette Spain, Will Man, Ann Hutchinson

**PA535** **Prediction of respiratory diagnosis using an AI-model with exhaled H2O2**  
Lauren Fox (Southampton, United Kingdom), Leon Gerard D'Cruz, Milan Chauhan, Alexander Hicks, Thomas Brown, Anoop J Chauhan

**PA536** **Belgian General Practitioners' perspectives on the use of spirometry in primary care: a qualitative study**  
Julie Maes (Leuven, Belgium), Sofie Willaert, Marko Topalovic, Jan Y Verbakel

**PA537** **ABE assessment of chronic obstructive pulmonary disease (COPD) patients.**  
ANUJ KUMAR PANDEY (Lucknow, India), Ajay Kumar Verma, Surya Kant, Arpita Singh, Jyoti Bajpai

**PA538** **First Real-World Evidence on budesonide/glycopyrronium/formoterol fumarate (BGF) use for COPD patients in France (ENARXI study): an interim analysis**  
Gaëtan Deslee (Reims, France), Nolwenn Pocard, Caroline Fabry-Vendrand, Delphine Leynaud, Gabriel Thabut, Caroline Eteve-Pitsaer, Adrien Coriat, Idir Ghout, Henri Leleu

**PA539** **The impact of providing a COPD action plan with an exacerbation prescription on health service use**  
Dong Yao (Donald) Wang (London, Canada), Anna Hussey, Madonna Ferrone, Christopher Lieskai

**PA540** **Effectiveness of a combined intervention to improve continuity of care in patients with chronic obstructive pulmonary diseases; a case study for a district hospital in Thailand**  
Piyawan Kuwalairat (Chumphon, Thailand), Soodruetai Ratanaopas

**PA541** **The Effectiveness and Acceptability of an Innovative GP-Physiotherapist Partnership for Chronic Obstructive Pulmonary Disease**  
Lisa Pagano (CONCORD, Australia), Zoe Mckeough, Sally Wootton, Nick Zwar, Andrew S.L Chan, Sriram Mahdev, Deborah Pallavicini, Sarah Dennis

PA542	<b>Patient perspectives on treatment preference and adherence to treatment for chronic obstructive pulmonary disease</b> Miguel Román Rodríguez (Palma De Mallorca, Spain), Ilona McMullan, Michelle Warner, Christopher Compton, Raj Sharma, Ruth Tal-Singer, Meilan Han
PA543	<b>Early treatment intervention and long-term management in COPD: a patient-focused analysis</b> Miguel Román Rodríguez (Palma De Mallorca, Spain), Ilona McMullan, Michelle Warner, Christopher Compton, Raj Sharma, Ruth Tal-Singer, Meilan Han
PA544	<b>Mapping barriers to referral of COPD patients for pulmonary rehabilitation in the primary care setting using theoretical domain framework: a scoping review.</b> Viviana Orena Chávez (Cambridge, United Kingdom), Ellie O'Keeffe, Frances Early, Jonathan Fuld, Steve Morris
PA545	<b>Personalized treatment through a Dry Powder inhaler device (DPI), adjustable to Chronic Obstructive Pulmonary Disease (COPD) patient's respiratory profile</b> Konstantinos Zarogoulidis (Thessaloniki, Greece), Nikolaos Michailidis, Dimitra Siopi, Theodora Tsiouda, Anatoli Theodoridou, Ourania Koltsida, Aggeliki Rapti, Dimitrios Petridis, Konstantinos Porpodis, Georgios Babalis, Savvas Petanidis, Diamantis Chloros
PA546	<b>Home intervention for patients with moderate-severe COPD and co-morbidities by Pharmacists and Physicians: methods and baseline characteristics from a pilot RCT</b> David Anderson (Glasgow, United Kingdom), Richard Lowrie, Frances Mair, Aziz Sheikh, Jennifer Anderson, Lynda Attwood, Gillian Cameron, Nicola Greenlaw, Fiona Hughes, Emily Kennedy, Emma Mcintosh, Andrew Mcpherson, Jane Moir, Donald Noble, Samuel Owusu Achiaw, Elaine Rankine, Bethany Stanley
PA547	<b>Management of COPD Exacerbation, a Prediction tool for exacerbation in General Practitioners based Swiss Chronic Obstructive Pulmonary Disease (COPD) cohort</b> Nebal Abu Hussein (Basel, Switzerland), Stephanie Giezendanner, P. O. Bridevaux, Th. Geiser, Ch. Von Garnier, L. Joos Zellweger, M. Kohler, D. Miedinger, Z. Pasha, R. Thurnheer, M. Tamm, J. D. Leuppi
PA548	<b>Mortality and readmission after COPD exacerbation-related hospitalization: an individual patient data meta-analysis</b> Kiki Waeijen-Smit (Horn, Netherlands), Mieke Cruitsen, Spencer Keene, Marc Miravittles, Ernesto Crisafulli, Antoni Torres, Christian Mueller, Philipp Schuetz, Thomas J. Ringbæk, Fabio Fabbian, Evgeni Mekov, Timothy H. Harries, Chung-Tat Lun, Begum Ergan, Cristóbal Esteban, Jose M. Quintana Lopez, José Luis López-Campos, Catherina L. Chang, Robert J. Hancox, Eskandarain Shafuddin, Hollie Ellis, Christer Janson, Charlotte Suppli Ulrik, Gunnar Gudmundsson, Danny Epstein, José Dominguez, Alicia Lacoma, Christian Osadnik, Inmaculada Alia, Francesco Spannella, Zuhail Karakurt, Hossein Mehravaran, Cecile Utens, Martijn D. De Kruif, Fanny Wai San Ko, Samuel P. Trethewey, Alice M. Turner, Dragos Bumbacea, Patrick B. Murphy, Kristina Vermeersch, Shani Zilberman-Itskovich, John Steer, Carlos Echevarria, Stephen C. Bourke, Nicholas Lane, Jordi De Batlle, Roy T. M. Sprooten, Richard Russell, Paola Faverio, Jane L. Cross, Hendrik J. Prins, Martijn A. Spruit, Sami O. Simons, Sarah Houben-Wilke, Frits M. E. Franssen
PA549	<b>Relationship between Hemoglobin Concentration and Mortality in patients with COPD: a Nationwide Cohort Study in South Korea</b> Da Hye Moon (Chuncheon (Gangwon-do), Republic of Korea), Eunju Lee, Yeonjeong Heo

## PS-4 in poster area

## Session 66

08:00 - 09:30

## Poster session: New concepts in pulmonology

Disease(s) : Respiratory critical care Thoracic oncology Airway diseases Interstitial lung diseases Pulmonary vascular diseases

Method(s) : Cell and molecular biology Public health Endoscopy and interventional pulmonology Imaging Physiology General respiratory patient care Pulmonary function testing

Tag(s) : Basic science, Translational

Chairs : Jonathan Baker (London, United Kingdom), Anna Krasnodembskaya (Belfast (Belfast), United Kingdom)

PA550	<b>Alveomic fingerprinting of acute inflammation in the human lung</b> Stuart Dickson (Edinburgh, United Kingdom), Antonella Pellicoro, Erin Gaughan, Thomas Craven, Jessica Ghobrial, Sarah Kelly, Ahad Abdalla, Hazel Stewart, Tarek Haloubi, Tom Michael Quinn, Bethany Mills, Renske Hoekstra, Manu Shankar-Hari, Kevin Dhaliwal
PA551	<b>Primary human type II alveolar cells cultured in human decellularized lung slices maintain phenotype and respond to TGF-β1 stimuli with altered ECM production</b> Anna-Karin Larsson-Callerfelt (Lund, Sweden), Oskar Rosmark, Mans Kadefors, Goran Dellgren, Christofer Karlsson, Anders Ericsson, Sandra Lindstedt, Johan Malmstrom, Oskar Hallgren, Gunilla Westergren-Thorsson
PA552	<b>Late Breaking Abstract - Role of eosinophil mitochondrial function in severe eosinophilic asthma</b> Janice Koranteng (London, United Kingdom), Katie Raby, Piers Dixey, Sook Ling Lai, Peter Howarth, Kian Fan Chung, Charalambos Michaeloudes, Pankaj Bhavsar



PA553	<b>High-content imaging assays to monitor the effects of cigarette smoke on mitochondrial health</b> Maria Karlsson (Västra Frölunda, Sweden), Tiiu Wennberg, Gabriel Skogberg, Johan Jirholt
PA554	<b>COX-1-derived mediators in the functional interplay between bronchi and vessels</b> Ida Cerqua (Napoli, Italy), Elisabetta Granato, Antonietta Rossi, Maria Lopes Pires, Nicholas Kirkby, Jane Mitchell, Giuseppe Cirino, Fiorentina Roviezzo
PA555	<b>Distinct expression of collagen IV chains; a potential marker to discriminate COPD phenotypes?</b> Natalia El-Merhie (Giessen, Germany), Ceren Mutgan, Juliane Merl-Pham, Rajender Nandigama, Clemens Ruppert, Andreas Guenther, Ali Önder Yildirim, Stefanie M. Hauck, Norbert Weissmann, Malgorzata Wygrecka, Rajkumar Savai, Marek Bratkuhn, Grazyna Kwapiszewska
PA556	<b>Pulmonary consequences of global and focal cerebral ischemia in rats</b> Petra Somogyi (Hódmezővásárhely, Hungary), Ibolya Tóth, Bence Ballók, Zaid Hammad, Ramez A. Hussein, Fruzsina Kun-Szabó, Szilvia Kecskés, János Lückl, József Tolnai, Gergely H. Fodor, Eszter Farkas, Ferenc Peták
PA557	<b>Evidence of microvascular damage in Covid-19 survivors by simultaneous measure of diffusing capacity for carbon monoxide and nitric oxide.</b> Nicola Compagnone (San Cipriano d'Aversa, Italy), Patrizia Rovere-Querini, Rebecca De Lorenzo, Cecilia Bussolari, Giacomo Pacioni, Giordano Vitali, George Cremona
PA559	<b>Effects of vitamin D3 on human lung fibroblasts derived from patients with IPF</b> Tom Voisin (Rennes, France), Audrey Joannes, Claudie Morzadec, Dominique Lagadic-Gossman, Cécile Le Naoures, Bertrand Richard De Latour, Stéphane Jouneau, Laurent Vernhet
PA560	<b>Induction of epithelial cellular senescence and pro-fibrotic changes in human precision-cut lung slices</b> Maria Camila Melo Narvaez (Munich, Germany), Mircea-Gabriel Stoleriu, Anne Hilgendorff, Claudia Staab-Weijnitz, Ali Oender Yildirim, Melanie Koenigshoff, Mareike Lehmann
PA561	<b>Interaction of human lung mesenchymal cells with an elastin-derived extracellular matrix-like microenvironment</b> Arturo Ibáñez Fonseca (Lund, Sweden), Linnea Persson, Zackarias Söderlund, Måns Kadefors, Linda Elowsson, José Carlos Rodríguez-Cabello, Gunilla Westergren-Thorsson
PA562	<b>Extracellular vesicles are taken up by airway epithelial cells through a dynamin-dependent mechanism</b> Justine Devulder (London, United Kingdom), Jonathan Baker, Susie Cao, Louise Donnelly, Peter Barnes
PA563	<b>Mitochondrial transplantation reduces endothelial injury in the ARDS environment in vitro</b> Anna Krasnodembskaya (Belfast (Belfast), United Kingdom), Dayene de Assis Fernandes Caldeira, Johnatas D Silva, Patricia R M Rocco, Pedro S Leme, Fernanda F Cruz
PA564	<b>Effect of Galantamine on lipopolysaccharide-induced acute lung injury during neutropenia recovery in mice</b> Hyonsoo Joo (Seoul, Republic of Korea), Oh Beom Kwon, Seong Yong Lim, Jin Woo Kim
PA565	<b>Omeg@Silica microparticles modulates p53 and cell proliferation in A549</b> Caterina Di Sano (Palermo, Italy), Claudia D'Anna, Rosaria Ciriminna, Mario Pagliaro, Elisabetta Pace
PA566	<b>Rapamycin reduces oxidative stress-induced senescence by increasing sirtuin-1 in small airway epithelial cells</b> Faye Shrosbery (London, United Kingdom), Werngard Czechtizky, Louise Donnelly, Peter Barnes
PA568	<b>Neutrophil extracellular traps drive lung remodelling in tuberculosis</b> Julia Kutschenreuter (London, United Kingdom), Ramla Cusman, Daniela E. Kirwan, Jon S. Friedland, Deborah L.W. Chong

## PS-5 in poster area

## Session 67

08:00 - 09:30

## Poster session: New insights in positive airway pressure therapy

Disease(s) : Sleep and breathing disorders Respiratory critical care

Method(s) : General respiratory patient care Pulmonary rehabilitation Public health Epidemiology Physiology

Tag(s) : Clinical

Chairs : Matteo Bradicich (Zollikerberg, Switzerland), Dries Testelmans (Leuven, Belgium)

PA570	<b>Predictors for CPAP pressure titration in obstructive sleep apnea syndrome; could Baveno classification be helpful?</b> Ahmed Ehab (Schwaikheim, Germany), Axel T. Kempa, Harald Englert, Shaza Almasri Bittar, Aida M. Yousef, Heba Wagih Abdelwahab
PA571	<b>Usefulness of nocturnal oximetry (NOxi) following positive airway pressure (PAP) initiation</b> Clara Bianquis (Saint-Prix, France), Vanessa Bironneau, Cécile Londner, Carole Philippe, Inès Zaien, Valérie Attali, Garance Vaillant, Bérénice Soye, Stéphane Attard, Gum Suk Cabrillac, Isabelle Arnulf, Justine Frija-Masson, Maxime Patout

PA572	<b>TRANSCUTANEOUS CAPNOGRAPHY AS A MONITOR OF POSITIVE AIRWAY PRESSURE TREATMENT</b> Jorge Rodriguez Sanz (ZARAGOZA (SPAIN), Spain), María Aguado Agudo, Marta Miranda Hernández, Luisa Margarita Cabrera Pimentel, María Teresa Martín Carpi
PA573	<b>Prevention of obstructive apnea events with machine learning</b> Hamed Hanafi (Halifax (NS), Canada), Julia Paffile, Meagan Sinclair, Kamal El-Sankary, Scott Lowe, Sageev Oore, Stephen Driscoll, Thomas Penzel, Ingo Fietze, Sanjay Patel, Reena Mehra, Debra Morrison
PA574	<b>The efficiency of azelastine hydrochloride and fluticasone propionate nasal spray to improve PAP adherence in patients with obstructive sleep apnea</b> Rachata Wongchan (Pathumthani., Thailand), Chatkarin Tepwimonpetkun, Jutarat Kitsongsermthon, Tunlanut Sapankaew, Kitiyot Yotsombut, Weasarith Chittivan
PA575	<b>Current treatment strategies in managing side effects associated with domiciliary Positive Airway Pressure (PAP) therapy for patients with sleep disordered breathing: A systematic review and meta-analysis</b> Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Amar Shah, Swapna Mandal, Silvia Schievano, Eleanor Main
PA576	<b>Evaluation of CPAP adherence in non-obese and obese obstructive sleep apnoea patients</b> Liam Chilton (Hull, United Kingdom), Harriet Hearn, Shoaib Faruqi
PA577	<b>Factors influencing the CPAP therapeutic adherence in women with obstructive sleep apnea (OSA)</b> Bárbara Gracia Hernández (Huelva, Spain), Alberto González Hernández, Ana Belén Rodríguez Gómez, Jessiva Ivana Hilares Vera
PA578	<b>Compliance with continuous positive airway pressure in the military: a Tunisian study</b> Ines Moussa (Bizerte, Tunisia), Hana Mrassi, Islam Mejri, Marwa Kacem, Chiraz Aichaouia, Samira Mhamdi, Zied Moatemri
PA579	<b>Early predictors of long-term PAP compliance</b> Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce
PA580	<b>Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study</b> Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin
PA581	<b>Heathy adherer effect and positive airway pressure therapy of obstructive sleep apnea</b> Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Goupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Phillippe Masson, Aya Bizieux-Thaminy, Nicole Meslier, Sandrine Kerbrat, Frédéric Gagnadoux
PA582	<b>Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial</b> Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz
PA583	<b>Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea</b> Ahmed Dhia El Euch (Sfax, Tunisia), Amal Saidani, Fateh Kadardar, Mohamed Amine Ammar, Wiem Satouri, Hedi Ben Slima
PA584	<b>Peak airflow-triggered adaptive servo-ventilation improves sleep structure of patients with heart failure and sleep apnea</b> Shoichiro Yatsu (Toronto, Canada), Christian M. Horvath, John S. Floras, Alexander G. Logan, Clodagh M. Ryan, T. Douglas Bradley
PA585	<b>SUBJECTIVE HRQOL IN PATIENTS WITH SLEEP APNOEA SYNDROME WHO UNDERWENT PAP THERAPY IN A REHABILITATION SETTING: A FOLLOW-UP STUDY</b> Francesco Fanfulla (Pavia (PV), Italy), Antonia Pierobon, Martina Vigorè, Eugenia Taurino, Gemma Grassi, Valeria Torlaschi, Marina Maffoni, Rita Maestroni, Roberto Maestri
PA586	<b>Sleep apnea and psoriasis: a multidisciplinary approach</b> Patrizia Pochetti (Vercelli, Italy), Beatrice Ragnoli, Beatrice Bacco, Ginevra Pertusi, Mario Malerba
PA587	<b>Insights from a hospitalised domiciliary NIV (DNIV) population: the use of DNIV data.</b> Lynn McDonnell (London, United Kingdom), Stephanie Mansell, Rhiannon Parry, Swapna Mandal
PA588	<b>Ventilation mask choice: development of a custom made test bench</b> Baptiste Rouchié (Bagneux, France), Clara Virbel-Fleischman, Yann Retory, Alexandra Schmidt, Giorgio Mattana, Benoit Piro, Emilie Bequignon, Bruno Louis, Steeve Reisberg

**PA589** **Ventilation mask choice: feedbacks by 72 Health professionals through pointing area diagrams**  
Baptiste Rouchié (Bagneux, France), Maxime Fieux, Clara Virbel-Fleischman, Yann Retory, Alexandra Schmidt, Emilie Bequignon

**PS-6 in poster area****Session 68****08:00 - 09:30****Poster session: From bench to bedside: translational studies in airway diseases****Disease(s) :** **Airway diseases****Method(s) :** Cell and molecular biology Physiology Public health General respiratory patient care Pulmonary rehabilitation Imaging**Tag(s) :** Translational**Chairs :** Lena Uller (Lund, Sweden), Ian M. Adcock (London, United Kingdom)

**PA590** **BNT162b2 COVID-19 vaccine increases the sensitivity to histamine in human hyperresponsive airways**  
Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Facciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani

**PA591** **BNT162b2 COVID-19 vaccine increases contractility to EFS in human hyperresponsive airways**  
Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Facciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani

**PA592** **The effects of pH alteration on human metapneumovirus infection in human airway epithelial cells**  
Ivana Daniels (Indianapolis, United States), Jessica Saunders, Laura Smith, Taiya Edwards, Benjamin Gaston, Michael Davis

**PA593** **The effect of magnetic stimulation of paravertebral ganglia on the anti-inflammatory reserves in COPD patients**  
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Sanina, Tetyana Pertseva, Svitlana Panina

**PA594** **Modulation of wound healing in human and murine respiratory epithelial cells**  
Francine Medjiofack Djeujo (PADUA, Italy), Davide Malfacini, Marcello Trevisani, Girolamo Calo'

**PA595** **Characterization of contractile and relaxant responses in intralobular airways using a novel ex-vivo guinea pig model**  
Mu Nie (Solna, Sweden), Jielu Liu, Jesper Säfholm, Mikael Adner

**PA596** **Characterization of a corticosteroid-resistant inflammatory model of human bronchial epithelial cells cultured at air-liquid interface**  
Fabrizio Facchinetti (Parma (PR), Italy), Stefano Marchesi, Elisa Schiavi, Andrea Disanza, Leonardo Barzaghi, Massimiliano Bonanni, Giorgio Scita

**PA597** **The level of ICS in BDP/FF/GB modulates inflammation in a human ex vivo model of severe eosinophilic asthma**  
Paola Rogliani (Roma (RM), Italy), Josuel Ora, Enrico Motta, Enrico Melis, Francesco Facciolo, Luigino Calzetta

**PA598** **Effects of salbutamol and its combination with aminophylline on human stem cell-derived cardiomyocytes' function.**  
Kristian Brat (Brno, Czech Republic), Simon Klimovic, Martin Pesl, Jan Pribyl, Daniil Kabanov, Deborah Beckerova, Martin Scurek, Vladimir Rotrekl

**PA599** **EP395 effect on cell diapedesis measured by intravital microscopy**  
Yanira Riffo-Vasquez (London, United Kingdom), Jennifer A. Kricker, Clive Page, Michael J. Parnham

**PA600** **Immunomodulatory effects of tanimilast on human dendritic cells activated by thymic stromal lymphopietin**  
Fabrizio Facchinetti (Parma (PR), Italy), Oanh Hoang Nguyen, Laura Tiberio, Giulia Ripari, Gino Villetti, Maurizio Civelli, Daniela Bosisio

**PA601** **Tanimilast modulates IL-17 response in lymphocytes under different in vitro T17-promoting conditions**  
Elisa Schiavi (Parma, Italy), Gino Villetti, Maurizio Civelli, Fabrizio Facchinetti

**PA602** **Curcumin and grape pomace extract loaded in liposomes to counteract oxidative stress and inflammation induced by cigarette smoke in bronchial epithelial cells**  
Maria Ferraro (Palermo (PA), Italy), M.Letizia Manca, Rita Abi Rached, Serena Di Vincenzo, Valentina Lazzara, Paola Pinto, Elisabetta Pace

**PA603** **In vitro antibiofilm activity of hexylresorcinol lozenges against oropharyngeal pathogens**  
Thomas Hallett (Kingston upon Hull, United Kingdom), Priyanka Sharma, Charlotte Richards, Jennifer Adams, Lydia Powell, Elaine Ferguson, Graca Coutinho, Anuradha Kulasekaran, David Thomas, Katja Hill

**PA604** **A new formulation of n-acetylcysteine, carnitine, curcumin and B2 vitamin exerts anti-oxidant and anti-inflammatory effects in a primary 3D bronchial epithelial model exposed to cigarette smoke extracts.**  
Paola Pinto (PALERMO, Italy), Serena Di Vincenzo, Maria Ferraro, Valentina Lazzara, Filippo Catalano, Elisabetta Pace, Maria Rosaria Bonsignore

- PA605** **Maternal e-cigarettes reduce offspring size and alter terminal airway cells in *D. melanogaster***  
Beate Höschler (Borstel, Germany), Hanna Angstmann, Birte Ehrhardt, Susanne Krauss-Etschmann
- PA606** **Eosinophil depletion decrease cardiovascular dysfunction in an emphysema with exacerbation rat model**  
Axel Bellanger (Montpellier, France), Pierre Edouard Grillet, Isabelle Vachier, Quentin Wynands, Elodie Desplanche, Anne Virsolvy, Fares Gouzi, Arnaud Bourdin, Olivier Cazorla
- PA607** **Late Breaking Abstract - The interim analysis result of allogeneic umbilical cord mesenchymal stem cells administration to moderate COPD patients: an open-label, dose escalation, Phase I study.**  
Kang-Yun Lee (New Taipei City, Taiwan), Kuan-Yuan Chen, Chang-Yo Hsuan, Ching-Mei Chen
- PA608** **Late Breaking Abstract - Safety and Efficacy of RLS-0071 on Neutrophils and Inflammatory Mediators in a Phase-1b Inhaled LPS Study**  
Jens Hohlfeld (Hannover, Germany), Olaf Holz, Meike Müller, Saskia Carstensen, Linda Dell, Jessica Goss, Pamela Hair, Philipp Badorrek, Kenji Cunnion, Ulrich Thienel

## PS-7 in poster area

## Session 69

08:00 - 09:30

## Poster session: Biomarkers in chronic obstructive pulmonary disease

Disease(s) : **Airway diseases**

Method(s) : General respiratory patient care Physiology Cell and molecular biology Epidemiology Pulmonary function testing Public health

Tag(s) : Translational

Chairs : Louise Donnelly (London, United Kingdom), Péter Horváth (Budapest, Hungary)

- PA609** **Endothelial dysfunction markers in patients with chronic obstructive pulmonary disease**  
Olga Sadovenko (Kharkiv, Ukraine)
- PA610** **Phenotypes and cluster analysis as predictors of survival in a real-life COPD cohort (RETRO-POPE Study)**  
Vladimir Koblizek (Hradec Králové, Czech Republic), Branislava Milenkovic, Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr, Miroslav Ilic, Jelena Jankovic, Vojislav Cupurdija, Jiri Jarkovsky, Boris Popov, Arshang Valipour
- PA611** **Airway epithelial TSLP production is increased in COPD patients**  
Lynda SABER CHERIF (Reims, France), Maeva-A Devilliers, Jeanne-Marie Perotin, Julien Ancel, Delepine Gonzague, Myriam Polette, Gaetan Deslee, Valérian Dormoy
- PA612** **FENO50 stability over a 2-year period in relation to COPD outcomes**  
Marieann Högman (Uppsala, Sweden), Christer Janson, Andreas Palm, Björn Ställberg, Kristina Bröms, Karin Lisspers, Maria Hårdstedt, Andrei Malinowski
- PA613** **Optimising research bronchoalveolar lavage in COPD and alpha-1 antitrypsin deficiency**  
Malcolm Herron (Dublin, Ireland), Daniel Fraughen, Suzanne Roche, Lasya Kanchi, Emma Leacy, Lameese Alhaddah, Ronan Heeney, Tomas Carroll, Mark Murphy, Noel Gerard McElvaney
- PA614** **Hyperkalemia is an underestimated risk factor in COPD: a retrospective study from two Phase 3 trials**  
Jukka Mäenpää (Mölnådal, Sweden), Isobel Anderson, Caroline A. Owen, Ulrika Emerath, Rod Hughes, Stefan Sultana, Marita Olsson
- PA615** **Functional characterization of FoxP3+ regulatory T cells in Chronic Obstructive Pulmonary Disease**  
Anjana Talwar (Noida (Uttar Pradesh), India), Meghashree Sampath, Geetanjali Bade, Randeep Guleria, Sudip Sen, Anant Mohan
- PA616** **Comparison of stable state and historic blood eosinophil counts in COPD patients at the GOLD guideline thresholds.**  
Arun Prasad (Gateshead, United Kingdom), Carlos Echevarria, John Steer, Stephen. C. Bourke
- PA617** **Blood-biomarkers to assess acute respiratory events (ARE) risk in COPD and chronic bronchitis (CB)**  
Jun Chen (Chengdu, China), Yanqiu Wu, Tao Wang, Shuling Hu, Fuqiang Wen, Paul Jones, Nanshan Zhong
- PA618** **Associations between serum Humanin levels and outcomes in stable COPD.**  
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Paula Martin-Audera, Juan Agüero-Calvo, Mayte Garcia-Unzueta, Bernardo Alio Lavin, Armando Raul Guerra, Ana Berja, Tamara Quijano, Cristina Ghadban
- PA619** **Can we predict the prognosis of COPD with a routine blood test?**  
Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina
- PA620** **Burden of disease in COPD, stratified by eosinophils levels: a UK biobank study**  
Catia C Proenca (Basel, Switzerland), Oscar Dumoulin, Aurélie Chekroun Martinot, Pepi Hurtado, Mathieu Rose

- PA621** **Dynamics of iron content in bronchoalveolar fluid in COPD patients**  
Alla Zuban (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Mariana Kulynych-Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Iryna Makoida, Olha Melnyk-Sheremeta
- PA622** **Study to analyze factors responsible for readmission within 90 days in COPD patients in tribal area of central India.**  
Rudrika Pushpraj Bhatele (Jabalpur, India), Sandeep Singh, Sanjay Bharty
- PA623** **The role of RNA binding proteins in eosinophilic COPD.**  
Ilektra Voulgareli (Αθήνα, Greece), Maria Semitekolou, Ioannis Morianos, Myrto Blizou, Spyridon Papis, Georgios Hillas, Petros Bakakos, Stylianos Loukides
- PA624** **Novel spirometric parameters of the flow volume curve in COPD.**  
James Dean (Holmes Chapel, United Kingdom), Stephen Fowler, Dave Singh
- PA625** **Influence of tobacco-smoking on serum amyloid A (SAA) level in stable COPD patients.**  
Bohdana Basina (Dnipropetrovsk, Ukraine), Daria Koval
- PA626** **Clinical significance of serum oxidative stress in COPD patients**  
Keitaro Nakamoto (Tokyo, Japan), Masato Watanabe, Masaoki Saito, Keisuke Kasuga, Chika Miyaoka, Yuki Yoshida, Aya Hirata, Hiroki Nunokawa, Junpei Aso, Yasuo Nakamoto, Manabu Ishida, Kojiro Honda, Saori Takata, Takeshi Saraya, Masafumi Shimoda, Yoshiaki Tanaka, Mikio Saotome, Ken Ohta, Haruyuki Ishii
- PA627** **Could red cell distribution width predict COPD severity?**  
Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina
- PA628** **Association of Interleukin-6 and Tumor necrosis factor alpha with COPD severity:**  
Abir Hedhli Ep Cherni (tunis, Tunisia), Safa Marzouki, marzouki saf, S Hajtaeib, Khadija Echi, Lilia Laadhar, Yassine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, M Sellami, Meriem Mjid, Besma Dahri

## PS-8 in poster area

## Session 70

08:00 - 09:30

## Poster session: Advances in the management of asthma and allergic airways disease

Disease(s) : Airway diseases Interstitial lung diseases Sleep and breathing disorders

Method(s) : Cell and molecular biology Pulmonary function testing General respiratory patient care Epidemiology Public health

Tag(s) : Clinical

Chairs : Christian Taube (Essen, Germany), Christina Bal (Wien, Austria)

- PA629** **Response to biologics and clinical remission in the adult GAN severe asthma cohort.**  
Katrin Milger-Kneidinger (Munich, Germany), Hendrik Suhling, Dirk Skowasch, Annette Holtdirk, Nikolaus Kneidinger, Jürgen Behr, Hartmut Timmermann, Christian Schulz, Olaf Schmidt, Rainer Ehmman, Marek Lommatzsch, Eckard Hamelmann, Marco Idzko, Christian Taube, Roland Buhl, Stephanie Korn
- PA630** **Real-world mepolizumab outcomes in severe asthma: REALITI-A post hoc analysis by exacerbation history**  
Diego Bagnasco (GENOVA (GE), Italy), Diane Loughheed, Vijay Subramanian, Ian J Clifton, Robert G Price, Peter Howarth
- PA631** **A real-life comparison of patients with severe eosinophilic asthma treated with benralizumab or mepolizumab**  
Helle Haagensen Andersen (Brabrand, Denmark), Torben Smidt-Hansen, Lene M Pedersen, Tina Skjold, Johannes Schmid
- PA632** **Mepolizumab long-term safety in severe eosinophilic asthma**  
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Robert Chan, Peter Howarth, Martin Gilson, Robert G Price, Jorge F Maspero
- PA633** **Dupilumab may be beneficial for severe asthma patients with high FeNO And low blood eosinophil counts in real world observational study.**  
Tatsuhiko Uno (saitama prefecture, Japan), Yuki Hoshino, Tomoyuki Soma, Yoshitaka Uchida, Takeshi Asado, Reina Ishii, Kazuki Katayama, Hidetoshi Iemura, Takahiro Uchida, Shun Shinomiya, Sachiko Miyauchi, Kazuyuki Nakagome, Hidetoshi Nakamura, Makoto Nagata
- PA634** **A modified COMSA score is a good tool to identify responders and non-responders to mepolizumab in severe asthma**  
Valentyna Yasinska (Rönninge, Sweden), Maria Sparreman-Mikus, Johan Kolmert, Lars I. Andersson, Andrei Malinovschi, Christer Janson, Barbro Dahlén, Sven-Erik Dahlén
- PA635** **German Asthma Net: Characterization of responders of anti-IL5 and anti-IL5(R) therapy**  
Christina Bal (Wien, Austria), Katrin Milger, Dirk Skowasch, Christian Schulz, Margret Jandl, Olaf Schmidt, Rainer Ehmman, Slagjana Stoshikj, Sonja Zehetmayer, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

PA636	<b>Patients with severe asthma reducing ICS treatment during treatment with biologicals do not have more frequent exacerbations.</b> Torben Smidt-Hansen (Stavtrup, Denmark), Helle H Andersen, Lene M Pedersen, Anne-Sofie Bjerrum, Tina Skjold, H.J. Hoffmann, Johannes Schmid
PA637	<b>Factors predictive of poor adherence to treatment in patients with asthma</b> Aboubekr Imzil (Agadir, Morocco), Ossama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youness Essaid, Fatiha Bounoua, Khadija Ait Nasser, Houssame Ennaciri, Sofiya Farhat, Hanane Ikrou, Nada Boutbagha, Houda Moubachir, Hind Serhane
PA638	<b>Role of atopy in occupational asthma</b> Amira Belkahla (Tunis, Tunisia), Amira Belkahla, Dorra Brahim, Mariem Mersni, Imen Youssef, Najla Mechergui, Ghada Bahri, Hanene Ben Said, Soumaya Fenniche, Nizar Ladhari
PA639	<b>Impact of smoking on biologicals treatment response in patients from the German Severe Asthma (GAN) Registry</b> Slagjana Stoshikj (Wien, Austria), Leonie Biener, Jonas Brugger, Christoph Krall, Kathrin Milger, Christian Schulz, Margret Jandl, Rainer Ehmann, Olav Schmidt, Dirk Skowasch, Roland Buhl, Eckard Hamelmann, Christian Taube, Stephanie Korn, Marco Idzko
PA640	<b>Impact of inhaled corticosteroids on specific inhalation challenges for diagnosing occupational asthma</b> Gabriel Lavoie (MONTREAL, Canada), Catherine Lemièrè
PA641	<b>Impact of staphylococcus aureus enterotoxins on clinical responses to omalizumab in severe asthma patients</b> Wei-Ciao Wu (Taipei, Taiwan), Chih-Ming Weng, Han-Pin Kuo, Chun-Liang Chou
PA642	<b>Assesment of the Healthcare Providers Knowledge, Practice and Attitudes Towards Allergen-Specific Immunotherapy</b> ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamedi, Zied Moatameri
PA643	<b>Results of health education training for asthmatic patients: A prospective cohort study</b> Bandi Solongo (Ulaanbaatar, Mongolia), Gankhuyag Tumenuzii, Dansran Densenbal
PA644	<b>Anti-IgE Ab treatment attenuates OVA-Ag-induced neutrophilic airway inflammation and IL-17 production in the lungs</b> Kazuyuki Nakagome (Moroyama, Iruma, Japan), Mitsuru Imamura, Masaaki Kawano, Kimito Kawahata, Rie Takagi, Hiroaki Harada, Makoto Dohi, Sho Matsushita, Makoto Nagata
PA645	<b>Therapeutic effect and mechanism study of 35 kDa Progesterone-induced blocking factor for elderly female asthmatic patients</b> Hyun Jae Shim (Seoul, Republic of Korea), Ji-Hyang Lee, Mini Jeong, Min Ju Pyo, Keun-Ai Moon, Sin-Jeong Kim, Kyomoon Koo, Ye Eun Hong, Yura Ha, You Sook Cho
PA646	<b>Late Breaking Abstract - Clinical remission with mepolizumab in severe asthma: impact of lung function parameters</b> John Oppenheimer (summit, United States), Teresa Carrillo Díaz, Eva Martínez Moragón, M. Guadalupe Sanchez Herrero, David Bañas Conejero, Geoffrey Chupp, Robert G Price, Alejandro Raimondi, Shiyuan Zhang, Peter Howarth, Christian Domingo Ribas
PA647	<b>Late Breaking Abstract - Comparability and usability of FeNO analyzers: a LEAD prospective general population study</b> Christina Bal (Wien, Austria), Marco Idzko, Caspar Schiffers, Maarten Van Herck, Sonja Zehetmayer, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal

## PS-9 in poster area

## Session 71

08:00 - 09:30

## Poster session: Multimorbidity in people with lung diseases

Disease(s) : Airway diseases Pulmonary vascular diseases Sleep and breathing disorders

Method(s) : Epidemiology Physiology Pulmonary function testing Public health Cell and molecular biology

Tag(s) : Clinical

Chairs : Sundeep Santosh Salvi (Pune (Maharashtra), India), Nazia Chaudhuri (Limavady, United Kingdom)

PA648	<b>Characterisation and burden of eosinophilic granulomatosis with polyangiitis in European patients by disease phase</b> Lee Baylis (Apex, United States), Jeremiah Hwee, Lynn Huynh, Rafael Alfonso-Cristancho, Anamika Khanal, Mei Sheng Duh, Waseem Ahmed
PA649	<b>Prevalence and disease burden of alpha-1 antitrypsin deficiency in Germany</b> Prasad Gawade (Boston, United States), Kuen-Cheh Yang, Ina Jazic, Christina Scirica, Zheng-Yi Zhou, Wenxi Tang

PA650	<b>An update from the Irish national alpha-1 antitrypsin deficiency targeted detection programme</b> Ronan Heeney (Dublin, Ireland), Orla Cahalane, Ilaria Ferrarotti, Stefania Ottaviani, Geraldine Kelly, Cedric Gunaratnam, Gerry McElvaney, Tomás Carroll
PA652	<b>The incidence of sarcopenia is higher in the group of COPD subjects than non-COPD subjects</b> Chih-Ming Lin (Taipei, Taiwan), Jhih-Jhen Wu, Huan-Ting Lin, Shih-Wei Huang
PA653	<b>Isolated small airways obstruction predicts future chronic airflow obstruction: Preliminary findings</b> Ben Knox-Brown (NEWMARKET, United Kingdom), James Potts, Cosetta Minelli, Jaymini Patel, Peter Burney, Andre Amaral
PA654	<b>The trend of Medication use and Mortality in chronic obstructive pulmonary disease in Korea: A nationwide cohort study 2002-2013</b> Jinhyung Cho (Seoul, Republic of Korea), Young Sam Kim
PA655	<b>Persistence of asthma from 8-28 years – a population-based cohort study</b> Linnéa Almqvist (Boden, Sweden), Martin Andersson, Helena Backman, Eva Rönmark, Linnea Hedman
PA656	<b>Rhinovirus specific IgG responses and respiratory health in children and adults of the EGEA cohort</b> Marion Mauclin (Grenoble, France), Alicia Guillien, Katarzyna Niespodziana, Anne Boudier, Thomas Schleder, Maja Bajic, Raphaël Vernet, Rachel Nadif, Jean Bousquet, Emmanuelle Bouzigon, Rudolf Valenta, Valérie Siroux
PA658	<b>Maternal asthma during pregnancy and offspring type 1 diabetes – a Swedish population-based cohort study</b> Awad I. Smew (Stockholm, Sweden), Amanda Wikström, Cecilia Lundholm, Gustaf Rejnö, Bronwyn K. Brew, Catarina Almqvist
PA659	<b>Sleep-related symptoms among asthmatics in the RHINESSA study</b> Rajesh Shigdel (Bergen, Norway), Ronas Shakya, Sarala Banjara, Eva Lindberg, Bryndis Benediktsdottir, Össur Emilsson, Nils Oskar Jögi, José Luis Sánchez Ramos, Francisco Javier Callejas González, Cecilie Svanes, Francisco Gomez Real, Chamara Senaratna, Vivi Schlünssen, Thorarinn Gislason, Randi J Bertelsen
PA661	<b>Genes involved in IL6-related pathways and asthma: the EGEA and FEAS studies</b> Laurent Orsi (Paris, France), Taina K. Lajunen, Patricia Margaritte-Jeannin, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Rachel Nadif*, Marie-Hélène Dizier*
PA662	<b>The prevalence of severe asthma and severe eosinophilic asthma in Finland</b> Lauri Lehtimäki (Tampere, Finland), Arja Viinanen, Pinja Ilmarinen, Juha Mehtälä, Tero Ylisaukko-Oja, Juhana J Idänpään-Heikkilä, Hannu Kankaanranta
PA663	<b>Association between SNPs in candidate genes and mixed granulocytic asthma in adults</b> Antonino Margagliotti (Verona, Italy), Lucia Calciano, Valentina Lando, Cristina Bombieri, Giovanni Malerba, Mario Olivieri, Simone Accordini
PA664	<b>Depression from childhood to early adulthood and association with respiratory symptoms</b> Gang Wang (Stockholm, Sweden), Jenny Hallberg, Ellen Vercajsteren, Natalia Hernandez-Pacheco, Sandra Ekström, Bronwyn K Brew, Catarina Almqvist, Inger Kull, Anna Bergström, Erik Melén, Donghao Lu
PA665	<b>Risk factors of early dying among in-hospital community-acquired pneumonia deaths</b> Ezequiel Pessoa (Lisbon, Portugal), Cristina Bárbara, Andreia Costa, Paulo Nogueira
PA666	<b>Trends in outpatient azithromycin prescribing in respiratory diseases</b> Victor Pera (Rotterdam, Netherlands), Helen Panen, Maria A.J. De Ridder, Lies Lahousse, Guy G. Brusselle, Peter R. Rijnbeek, Katia M.C. Verhamme
PA667	<b>The impact of the war in Ukraine on the prevalence of multidrug-resistant tuberculosis in Poland: an epidemiological overview and overview of countermeasures implemented.</b> Adam Nowinski (Warszawa, Poland), Askar Yedilbayev, Joanna Ladomirska, Andrei Dadu, Tatiana Makarevich, Stefan Wesolowski, Paloma Cuchi, Maria Korzeniewska-Kosela

## Gold Session 72 08:30 - 10:00

### State of the art session: Airway diseases

#### Longitudinal cohorts in airway disease. What have they taught us about personalised treatment of our everyday patients?

**Aims :** to discuss effective studies on phenotypes and endotypes of airway diseases, the novel, discovered underlying pathologies and novel therapies based on longitudinal cohorts; to present the long-term effects of different therapies; to explain input of longitudinal cohorts to our current knowledge about airway diseases; to critically review the setting up and results of four main longitudinal cohorts.

**Disease(s) :** Airway diseases**Method(s) :** Cell and molecular biology Epidemiology Physiology**Tag(s) :** Translational**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Patient, Physician in Pulmonary Training, Radiologist**Chairs :** Omar S. Usmani (London, United Kingdom), Vanessa M. McDonald (Newcastle (NSW), Australia), Apostolos Bossios (Stockholm, Sweden)

08:30	<b>The Unbiased Biomarkers for the Prediction of Respiratory Disease Outcomes (U-BIOPRED) cohort. Applying systems biology to reveal the mechanisms of severe asthma</b> Kian Fan Chung (London, United Kingdom)	668
08:45	<b>The COPDGene® Study: investigating the underlying genetic factors of chronic obstructive pulmonary disease</b> MeiLan K. Han (Ann Arbor, United States)	669
09:00	<b>Assessment of the involvement of small airways in asthma: the ATLANTIS study</b> Monica Kraft (New York, United States)	670
09:15	<b>The NOVEL observational longiTudinal studY (NOVELTY): real-world evidence on asthma and/or chronic obstructive pulmonary disease development</b> Alberto Papi (Cona, Ferrara, Italy)	671
09:30	<b>Discussion and Q&amp;A</b> All Speakers	672

**Silver Session 73 08:30 - 10:00****Symposium: Progressive pulmonary fibrosis: challenges and controversies****Aims :** to describe the magnitude of the problem of progressive pulmonary fibrosis (PPF); to discuss the diagnostic tools to detect or predict PPF; to explore some of the putative pathogenic mechanisms that may be involved in the progression of fibrotic lung disorder; to discuss the therapeutic approach, covering immunosuppression and antifibrotic drugs, antifibrotic drugs alone, nonpharmacological support, and when to start and stop this all.**Disease(s) :** Interstitial lung diseases**Method(s) :** Cell and molecular biology Imaging Pulmonary function testing**Tag(s) :** Translational**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational)**Chairs :** Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

08:30	<b>Patient's perspective</b> Elizabeth Robertson (Maidenhead, United Kingdom)	673
08:35	<b>Progressive pulmonary fibrosis. The burden of disease progression in fibrotic interstitial lung disease</b> Phil Molyneaux (London, United Kingdom)	674
08:50	<b>Diagnostic challenges and biomarkers to profile progression. Time is gold</b> Anna Podolanczuk (New York, United States)	675
09:05	<b>Cellular and molecular mechanisms involved in progression of pulmonary fibrosis</b> Moises Eduardo Selman Lama (Mexico, Mexico)	676
09:20	<b>Therapeutic approach and challenges in PPF</b> Elisabeth Bendstrup (Aarhus N, Denmark)	677
09:35	<b>Discussion and Q&amp;A</b> All Speakers	678

**Coral 4+5 Session 74 08:30 - 10:00****Hot topics: Burden of tobacco farming and use of electronic nicotine delivery systems on the environment and occupational health**



**Aims :** to address the urgent need to take action against the rapidly increasing epidemic of electronic nicotine delivery system use in childhood and adolescence; to disclose how and why the industry targets the paediatric population; to highlight the recent evidence on inhalation of e-liquids and flavoured nicotine products; to discuss the effects on the paediatric asthmatic population and to discuss solutions and policy recommendations.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Silvia Ulrich (Zurich, Switzerland), Giovanni Viegi (Pisa (PI), Italy)

08:30	<b>Health effects of e-liquids, flavours and other chemicals</b> Sven-Eric Jordt (Durham, NC, United States)	679
08:45	<b>Environmental damage caused by tobacco farming and manufacturing</b> Selin Çakmakçı Karakaya (Ankara, Turkey)	680
09:00	<b>Global burden of tobacco use</b> Om Prakash Kurmi (Coventry, United Kingdom)	681
09:15	<b>Greenwashing of the tobacco industry</b> Elif Dagli (Istanbul, Turkey)	682
09:30	<b>Discussion and Q&amp;A</b> All Speakers	683

### Coral 3 Session 75 08:30 - 10:00

#### Symposium: War, climate change, migration and respiratory infections

**Aims :** to discuss 1) the menaces the world is facing and how adaptative strategies can help to minimise health risks.; 2) policy interventions that can facilitate the mobility of people, enhance well-being and maximise social and economic development in both places of origin and destination

**Disease(s) :** Airway diseases Paediatric respiratory diseases Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Radiologist, Respiratory physiotherapist, Journalist

**Chairs :** Andrew Bush (London, United Kingdom), Raquel Duarte (Porto, Portugal)

08:30	<b>Acute respiratory infections in crisis affected populations</b> Giovanni Battista Migliori (Varese (VA), Italy)	684
08:45	<b>Climate change and respiratory infections</b> Carlos Robalo Cordeiro (Coimbra, Portugal)	685
09:00	<b>Effect of climate changes and migration on infection in the paediatric population</b> Marijke Proesmans (Leuven, Belgium)	686
09:15	<b>Respiratory health in migrant populations</b> Dennis Falzon (Genève, Switzerland)	687
09:30	<b>Discussion and Q&amp;A</b> All Speakers	688

### Coral 1 Session 76 08:30 - 10:00

#### Symposium: Evolving concepts in the management of nonsmall cell lung cancer

**Aims :** to highlight the latest trends in lung cancer and pleural mesothelioma care. Adoption of emerging therapies such as immunotherapy in early-stage nonsmall cell lung cancer (NSCLC) represents a paradigm shift relative to the previous treatment algorithms. Individualised approaches in thoracic surgery and oligometastatic NSCLC are just finding their way into routine care. Likewise, malignant pleural effusion treatment and research of pleural mesothelioma are currently being redefined.

**Disease(s) :** Thoracic oncology**Method(s) :** General respiratory patient care Imaging Surgery**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist**Chairs :** Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)

08:30	<b>Choosing between new and established adjuvant regimens perioperatively</b> Martin Forster (London, United Kingdom)	689
08:45	<b>Individualized surgical approach in thoracic lung cancer</b> Monica Casiraghi (Milan, Italy)	690
09:00	<b>Integrating systemic and local therapies in the management of oligometastatic NSCLC</b> Dragana M. Jovanović (Beograd, Republic of Serbia)	691
09:15	<b>Innovative approaches for pleural effusion in lung cancer</b> Kevin Blyth (Glasgow (Glasgow), United Kingdom)	692
09:30	<b>Discussion and Q&amp;A</b> All Speakers	693

**Coral 2****Session 77****08:30 - 10:00****Symposium: Lung consequences of the obesity epidemic from children to the elderly****Obesity and lung diseases****Aims :** to give an epidemiological overview of the obesity and its detrimental effects on general health; to present the most important clinical consequences of obesity on lung health and cardiovascular effects, spanning from early life to adulthood**Disease(s) :** Airway diseases Paediatric respiratory diseases Sleep and breathing disorders**Method(s) :** Epidemiology General respiratory patient care Public health**Tag(s) :** Translational**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist**Chairs :** Angela Zacharasiewicz (Wien, Austria), Johan Verbraecken (Edegem (Antwerp), Belgium)

08:30	<b>The immune system and obesity-related asthma: what is the link?</b> Deepa Rastogi (Bronx, United States)	694
08:45	<b>Obesity in children and its relationship with sleep</b> Indra Narang (Toronto (ON), Canada)	695
09:00	<b>Why childhood obesity causes respiratory diseases</b> Erick Forno (Indianapolis, United States)	696
09:15	<b>Metabolic determinants of asthma and COPD across ages</b> Miguel Angel Alejandro Alcázar (Köln, Germany)	697
09:30	<b>Discussion and Q&amp;A</b> All Speakers	698

**Purple****Session 78****08:30 - 10:00****Respiratory medicine meets other disciplines: Artificial intelligence in chest radiology and clinical practice****A joint ERS/European Society of Thoracic Imaging (ESTI) session****Aims :** to introduce the current artificial intelligence (AI) - derived applications in chest radiology; to discuss clinical application of artificial intelligence AI.

**Disease(s)** : Airway diseases Interstitial lung diseases Thoracic oncology**Method(s)** : Imaging**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Respiratory critical care physician, Paediatrician, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist**Chairs** : Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

08:30	<b>Artificial intelligence in thoracic imaging: what is AI and where do we stand?</b> Rozemarijn Vliegthart (Groningen, Netherlands)	699
08:45	<b>Artificial intelligence and organ or lesion segmentation</b> Marleen De Bruijne (Rotterdam, Netherlands)	700
09:00	<b>Artificial intelligence and detection, classification and prognosis of thoracic malignancies</b> Rozemarijn Vliegthart (Groningen, Netherlands)	701
09:15	<b>Artificial intelligence and detection, classification and prognosis of diffuse lung diseases</b> Nicola Sverzellati (Parma (PR), Italy)	702
09:30	<b>Discussion and Q&amp;A</b> All Speakers	703

**Studio (White) Session 79 08:30 - 08:45****News from the studio: News from the studio****Chairs** : Richard Costello (Dublin 9, Ireland), Anita Simonds (London, United Kingdom)

08:30	<b>Discussion and Q&amp;A</b> All Speakers	704
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**Studio (White) Session 95 09:10 - 10:00****Experts interview: Phenotypes of central sleep apnoea/precision medicine approach in acute respiratory distress syndrome****Tag(s)** : Clinical**Chairs** : Richard Costello (Dublin 9, Ireland), Anita Simonds (London, United Kingdom)

09:10	<b>Phenotypes of central sleep apnoea: therapeutic options and future management perspectives</b> Winfried J. Randerath (Solingen, Germany)	735
09:25	<b>Discussion and Q&amp;A</b> All Speakers	736
09:35	<b>Precision medicine approach in acute respiratory distress syndrome</b> Christian Karagiannidis (Cologne, Germany)	737
09:50	<b>Discussion and Q&amp;A</b> All Speakers	738

**Red 1+2 Session 96 09:30 - 10:45****Oral presentation: Novelties in pulmonary hypertension management****Disease(s)** : Pulmonary vascular diseases**Method(s)** : Imaging General respiratory patient care Surgery Epidemiology Physiology Public health**Tag(s)** : Clinical**Chairs** : Marc Humbert (Le Kremlin-Bicêtre, France), Esther Jeritza Nossent (Amsterdam, Netherlands)

<b>OA739</b>	<b>Late Breaking Abstract - A long-term follow-up (LTFU) study of sotatercept for pulmonary arterial hypertension (PAH)</b> Ioana R Preston (Boston, United States), David Badesch, Hossein-Ardeschir Ghofrani, J. Simon R. Gibbs, Mardi Gomberg-Maitland, Marius M. Hoeper, Marc Humbert, Vallerie V. McLaughlin, Aaron B. Waxman, Solaiappan Manimaran, Elina Mikhailova, Janethe De Oliveira Pena, Rogerio De Souza	
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OA740	<b>Population health model predicting the long-term impact of sotatercept on morbidity and mortality in patients with Pulmonary Arterial Hypertension (PAH)</b> Vallerie McLaughlin (Ann Arbor, United States), Adnan Alsumali, Rogier Klok, Rongzhe Liu, Eliana Martinez, Jestinah Chevure, Janethe De Oliveira Pena, Dominik Lautsch, Marius Hoepfer
OA741	<b>Long term outcome in chronic thromboembolic pulmonary hypertension in the multimodality treatment era: a UK national cohort analysis</b> Paula Appenzeller (Zürich, Switzerland), Ashwin Reddy, Katherine Bunclark, John Cannon, Karen Shears, Mark Toshner, Dolores Taboada, Stephen Hoole, Gerry Coghlan, David Jenkins, Choo Ng, John Taghavi, Steven Tsui, Nick Sreaton, Alessandro Rugierro, Luigia D'Errico, Joanna Pepke-Zaba
OA742	<b>Seralutinib improves pulmonary arterial blood vessel volume distribution in pulmonary arterial hypertension (PAH): results of the TORREY phase 2 imaging substudy</b> Roham Zamanian (Portola Valley, United States), Farbod N. Rahaghi, Luke S. Howard, Marion Delcroix, Sandeep Sahay, Namita Sood, Ronald L. Zolty, Murali M. Chakinala, Veronica Franco, Pavel Jansa, Shelley M. Shapiro, Leslie A. Spikes, Wendy Stevens, R. James White, Patrick Muchmore, Ben Lavon, Jan De Backer, Thao Duong-Verle, Robert F. Roscigno, David Mottola, Richard Aranda, Matt Cravets, Robin Osterhout, Jean-Marie Bruey, Ed Parsley, Vallerie V. McLaughlin, Robert P. Frantz, Hossein-Ardeschir Ghofrani, Olivier Sitbon, Lawrence S. Zisman
OA743	<b>External validation of the European cardiac magnetic resonance risk stratification in the Amsterdam UMC PAH patient cohort</b> Lucas Celant (Amstelveen, Netherlands), J.N. Wessels, J.T. Marcus, L.J. Meijboom, H.J. Bogaard, F.S. De Man, A. Vonk Noordegraaf
OA744	<b>Subtypes of pulmonary hypertension: gas uptake to lung capillaries and lung microstructure assessed by 129Xe MRI</b> Agilo Luitger Kern (Hannover, Germany), Da-Hee Park, Jan Fuge, Jens M. Hohlfeld, Frank Wacker, Karen M. Olsson, Marius M. Hoepfer, Jens Vogel-Claussen
OA745	<b>Prediction of revised pulmonary hypertension hemodynamic thresholds using 4D flow MRI</b> Deepa Gopalan (LONDON, United Kingdom), Kai'En Leong, William Auger, Peter Lindholm
OA746	<b>Comparison of risk stratification models for prediction of mortality in SSC-PAH in EUSTAR</b> Hilde Jenssen Bjørkekjær (Kristiansand, Norway), Cosimo Bruni, Patricia Carreira, Paolo Airò, Carmen Pilar Simeón-Aznar, Marie-Elise Truchetet, Alessandro Giollo, Alexandra Balbir-Gurman, Mickael Martin, Christopher P Denton, Armando Gabrielli, Håvard Fretheim, Imon Barua, Helle Bitter, Øyvind Midtvedt, Torhild Garen, Kaspar Broch, Arne Andreassen, Yoshiya Tanaka, Gabriela Riemekasten, Ulf Müller-Ladner, Marco Matucci-Cerinic, Ivan Castellví, Elise Siegert, Eric Hachulla, Oliver Distler, Anna-Maria Hoffmann-Vold
OA747	<b>Long-term outcome of patients with combined post- and precapillary pulmonary hypertension</b> Anna Titz (Zürich, Switzerland), Laura Mayer, Paula Appenzeller, Julian Müller, Simon R. Schneider, Michael Tamm, Andrei M. Darie, Sabina A. Guler, John-David Aubert, Frédéric Lador, Hans Stricker, Jean-Marc Fellrath, Susanne Pohle, Mona Lichtblau, Silvia Ulrich
OA748	<b>Altitude related adverse effect and therapeutic benefit of supplemental oxygen in patients with pulmonary vascular disease during an overnight stay at 2500m</b> Simon Raphael Schneider (Zürich, Switzerland), Julian Müller, Meret Bauer, Laura Mayer, Lea Lüönd, Tanja Ulrich, Michael Furian, Aglaia Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich
OA749	<b>Discussion and Q&amp;A</b> All Speakers

## Brown 3

## Session 97

09:30 - 10:45

## Oral presentation: Non-volitional assessment and new predictions in respiratory physiology

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Physiology Pulmonary function testing Imaging General respiratory patient care

Tag(s) : Clinical

Chairs : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Elizabeth Smith (Beaconsfield (WA), Australia)

OA750	<b>Late Breaking Abstract - Accuracy of respiratory gas variables, of fifteen CPET systems during simulated exercise with metabolic simulator.</b> Tjeu Souren (Utrecht, Netherlands), Bas Van Hooren, Bart Bongers
OA751	<b>Title Comparing the use of global lung initiative 2012 vs 2021 predicted values on vital capacity in idiopathic pulmonary fibrosis (IPF) patients.</b> Kate Donovan (Cambridge, United Kingdom), Joshua Barnes, Karl Sylvester

OA752	<b>Reference equations for intra-breath respiratory oscillometry in adults</b> Chiara Veneroni (Milano (MI), Italy), Alessandro Gobbi, Pasquale Pio Pompilio, Raffaele Dellaca, Salvatore Fasola, Stefania La Grutta, Agustin Leyva, Janos Porszasz, Silvia Romana Stornelli, Leonello Fuso, Christoph Valach, Robab Breyer-Kohansal, Chiara Contu, Riccardo Inchingolo, Kevin Hodgdon, David A. Kaminsky
OA753	<b>Respiratory system oscillometric resistance decreases over time in idiopathic pulmonary fibrosis</b> Pauline Tossan (Tours, France), Stéphanie Dirou, Wemeau Lidwine, Chambellan Arnaud, Perez Thierry, Chenivresse Cécile, Bokov Plamen, Bayeh Bestega, Marchand-Adam Sylvain, Guichard Elie, Plantier Laurent
OA754	<b>Comparison of forced oscillation technique (FOT) with spirometry measures in acute asthma</b> Paula Cristina Andrade Almeida (Aracaju (SE), Brazil), Mouaid Aljehani, Matthew J. Martin, Tim W. Harrison
OA755	<b>The effect of breathing pattern on airway resistance and reactance using forced oscillation technique (FOT)</b> Mark Howlett-Foster (Cambridge, United Kingdom), Ella O'Neill, Karl Sylvester
OA756	<b>Effects of renewed ERS/ATS criteria on classification of significant bronchodilator response</b> Nena Maria Rokx (Nijmegen, Netherlands), Jeanette B. Peters, Hieronymus W. H. Van Hees, Bram Van Den Borst, Alex J. Van 'T Hul, Hanneke A. C. Van Helvoort
OA757	<b>Bronchodilator response discordance in patients with asthma and/or COPD using Xe-MRI and spirometry</b> Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Dave Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Oliver Rodgers, James Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild
OA758	<b>Weight associates positively with FeNO in adult females but not males in a large healthy population-based sample</b> Tiago Jacinto (São João de Ver, Portugal), Rita Amaral, João Fonseca, Kjell Alving
OA759	<b>An alternative non-invasive indicator to respiratory exchange ratio for exercise effort.</b> Patrick Jak (Diemen, Netherlands)
OA760	<b>Discussion and Q&amp;A</b> All Speakers

## Brown 1+2 Session 98 09:30 - 10:45

### Oral presentation: Improving respiratory care from a primary care perspective

Disease(s) : **Airway diseases**

Method(s) : General respiratory patient care Public health Imaging Pulmonary function testing Epidemiology

Tag(s) : Clinical

Chairs : Miguel Román Rodríguez (Palma De Mallorca, Spain), María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain)

OA761	<b>Late Breaking Abstract - Improving the diagnosis of breathlessness in primary care: development and implementation of the "Breathlessness Diagnostics in a Box" (BiaB)</b> Janwillem W. H. Kocks (Groningen, Netherlands), Chantal Arling, Thomas A. Le Rütte, Marjan Kerkhof, Merijn M.G. Driessen-Roelfszema, Chris P. Gale, Ana M. Cebrián-Cuenca, Fiona Mosgrove, Rudolf A. De Boer, Richard E. Russell, Bernardino Alcázar-Navarrete, Huib A.M. Kerstjens, Yoran Gerritsma
OA762	<b>Developing a clinical pathway for breathlessness in primary care based on analysis of routine primary care data</b> Christine Jenkins (McMahons Point (NSW), Australia), Anthony Paulo Sunjaya, Allison Martin, Gian Luca Di Tanna, Christopher Gianacas, Clare Arnott, Guy Marks
OA763	<b>Building a diagnostic picture of asthma in primary care: A novel 'jigsaw puzzle' approach</b> Dermot Ryan (Derby (Derbyshire), United Kingdom), Siân Williams, Janwillem Kocks, Jaime Correia De Sousa
OA764	<b>Insights into spirometry usage and the potential for AI-based decision support software in Belgian primary care</b> Marko Topalovic (Kessel-lo, Belgium), Maarten De Vos, Julie Maes, Karolien Van Orshoven, Paul Desbordes, Vincent Vanheule, Charlotte Quataert, Isabelle Fovel
OA765	<b>The clinical presentation of tuberculosis in English primary care</b> Farah Kidy (Coventry, United Kingdom), Noel Mccarthy, Krishna Nirantharakumar, Shamil Haroon
OA766	<b>Sonographic follow-up of diaphragm function in COVID-19: an exploratory study</b> Wytze de Boer (Zwolle, Netherlands), Carlijn Veldman, Mireille Edens, Huib Kerstjens, Jan Willem Van Den Berg
OA767	<b>The role of the asthma nurse educator in identifying severe asthma in primary care.</b> Holly Minshall (Stoke, United Kingdom), Angela Cooper, Elfatih Idris

- OA768 Sustained health system benefits of primary care based integrated disease management for COPD: an interrupted time series**  
Christopher Licskai (London (ON), Canada), Anna Hussey, Véronique Rowley, Madonna Ferrone, Zihang Lu, Kimball Zhang, Emilie Terebessy, Andrew Scarffe, Shannon Sibbald, Cathy Faulds, Tim O'Callahan, Teresa To
- OA769 Systematic review of methods of scoring inhaler technique**  
Ruth De Vos (Horndean, United Kingdom), Alexander Hicks, Mitch Lomax, Heather Mackenzie, Lauren Fox, Thomas P Brown, Anoop J Chauhan
- OA770 Providing evidence based answers to first hand COVID and respiratory questions from the IPCRG Sentinel Network of practising primary care clinicians: A novel service report.**  
Alan Kaplan (Stouffville (ON), Canada), Neil Fitch, Fiona Mosgrove, Janwillem Kocks, Jaime Correia De Sousa, Ee-Ming Khoo, Karin Lisspers, Tiago Maricoto, Ioanna Tsiligianni, Tracey Lonergan, Siân Williams
- OA771 Discussion and Q&A**  
All Speakers

Blue 1+2

Session 99

09:30 - 10:45

Oral presentation: Lost in translation: new insights into cell-to-cell crosstalk in lung disease

Disease(s) : Thoracic oncology Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology

Tag(s) : Translational

Chairs : Suzanne Cloonan (Dublin, Ireland), Antonella Dost (Zeist, Netherlands)

- OA772 Late Breaking Abstract - Evolution of epithelial-mesenchymal cell circuits in the progression of pulmonary fibrosis**  
Laurens De Sadeleer (München, Germany), Yuexin Chen, Christoph Jentzsch, Zhenda Wang, Niyeti Qazi, Niklas Lang, Pascal Albanese, Andris Jankevics, Fabian Theis, Richard Scheltema, Wim Wuyts, Janine Gote-Schniering, Herbert Schiller
- OA773 Basophils inhibit tumors by suppressing Tregs**  
Nahal Mansouri (Lausanne, Switzerland), Bruno Torchia, Simge Yucel, Christophe Von Garnier, Michele De Palma
- OA774 Decoding the epithelial-T helper cell signalling axis in human asthmatic airways one cell at a time**  
Amanda Oliver (Cambridge, United Kingdom), Elo Madisson, Waradon Sungnak, Marijn Berg, Rakeshlal Kapuge, Laura Richardson, Claudi Semprich, Anna Wilbrey-Clark, Tessa Gillet, Kerstin Meyer, Martijn Nawijn, Sarah Teichmann
- OA775 Unveiling the role of Isthmin-1 in allergic asthma: Implications for therapeutic interventions**  
Jong Huat Tee (Singapore, Singapore), Udhaya Vijayakumar, Mahalakshmi Shanmugasundaram, Terence Yin Weng Lam, Wupeng Liao, Yuan Sheng Yang, Wai Shiu Fred Wong, Ruowen Ge
- OA776 GM-CSF increases uptake of Charcot-Leyden crystals in neutrophils and can induce NETopathic airway inflammation**  
Dóra Paróczai (Deszk, Hungary), Robbe Vermoesen, Helena Aegerter, Bart N. Lambrecht
- OA777 Crosstalk between memory B cells and fibroblasts contributes to COPD pathogenesis**  
Ken Bracke (Ghent, Belgium), Merel Jacobs, Jasper Anckaert, Alen Faiz, Femke Van Gaever, Sven Verschraegen, Bihyga Salhi, Tinus Schynkel, Koen Venken, Dirk Elewaut, Phil Hansbro, Guy Brusselle, Pieter Mestdagh, Leen Seys
- OA778 Dendritic cells are defective for improving survival in lung adenocarcinoma**  
Heloisa Acurcio Zimmermann (Ribeirão Preto, Brazil), Sabrina Setembre Batah, Maria Júlia Faci Do Marco, Mateus Magalhães Lage Moraes, Danilo Tadao Wada, Saulo Brito Silva, Alexandre Todorovic Fabro
- OA779 IL36 $\gamma$  reduces macrophage phagocytosis in COPD**  
Harriet Owles (London, United Kingdom), Jonathan R Baker, Peter Fenwick, Carolin K Watson, Karim C Kasmi, Peter J Barnes, Louise E Donnelly
- OA780 Mapping of eosinophils, immune cell profiles, and microbes in COPD lung tissue**  
Caroline Lindö (Lund, Sweden), Premkumar Siddhuraj, Renan Mauch, Jimmie Jönsson, Johan Ahlgren, Prajakta Jogdand, Cecilia Andersson, Jennifer Cann, Christopher Nazaroff, Sandra Lindstedt, Thais Mauad, Caroline Sandén, Christopher Mc Crae, Jonas S Erjefält
- OA781 Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 100

09:30 - 10:45

Oral presentation: Hot topics in intensive care medicine

**Disease(s) :** Respiratory critical care Airway diseases Pulmonary vascular diseases

**Method(s) :** Respiratory intensive care Physiology Cell and molecular biology

**Tag(s) :** Clinical

**Chairs :** Lieuwe D.J. Bos (Amsterdam, Netherlands), Ana Cysneiros (Lisboa, Portugal)

- OA782** **Late Breaking Abstract - CLUSTERING ARDS PATIENTS THROUGH THE FIRST DAYS OF ICU ADMISSION.**  
Adrian Ceccato (Barcelona, Spain), Carles Forne, Lieuwe D. Bos, Marta Camprubi, Aina Areny, Elena Campaña, Sara Quero, Emilio Diaz, Oriol Roca, David De Gonzalo-Calvo, Laia Fernandez Barat, Anna Motos, Ricard Ferrer, Jordi Riera, Jose Angel Lorente, Oscar Peñuelas, Rosario Menendez, Jesus Bermejo, Ferran Barbe, Antonio Artigas, Antoni Torres
- 
- OA783** **Late Breaking Abstract - Transcriptome profiling of persistent ICU-acquired weakness in a cohort of ARDS survivors**  
Israel David Duarte Herrera (Oviedo, Spain), Karla Miravete-Lagunes, Cecilia López-Martínez, Sara M Exojo-Ramírez, Paula Martín-Vicente, Marcelino González Iglesias, Raquel Rodríguez García, Ana García De Alaiz, Margarita Fernández-Rodríguez, Elías Cuesta-Llavona, Sergio Pérez-Oliveira, Juan Gómez De Oña, Eliecer Coto, Inés López-Alonso, Diego Parra-Ruiz, Guillermo M Albaiceta, Laura Amado-Rodríguez
- 
- OA784** **The association between respiratory effort parameters during the first 48 hours with clinical outcomes in mechanically ventilated patients: A prospective observational study.**  
Phruet Soipetkasem (Bangkok, Thailand), Detajin Junhasavasdikul, Yuda Sutherland, Pongdhep Theerawit
- 
- OA785** **Differences in nosocomial infections in patients on VV-ECMO for COVID-19 and Influenza**  
Clemens Wiest (Regensburg, Germany), Alois Philipp, Maik Foltan, Florian Geismann, Maximilian Malfertheiner, Christoph Fisser, Thomas Mueller, Lars Siegfried Maier, Florian Hitzenbichler, Barbara Schmidt, Dirk Lunz, Thomas Dienemann, Bernd Salzberger, Matthias Lubnow
- 
- OA786** **Vilobelimab's effect on mortality in severe COVID-19 ARDS patients: Phase 3 RCT**  
Endry Lim (Amsterdam, Netherlands), Alexander Vlaar, Djillali Annane, Martin Witzenth, Michael Bauer, Leo Heunks, Bruno Mourvillier, Vasquez Luis Hercilla, Tobias Welte, Pieter Van Paassen, Sanne De Bruin, Matthijs Brouwer, Pieter Tuinman, Jose Saraiva, Marx Gernot, Suzana Lobo, Rodrigo Boldo, Jesus Simon-Campos, Alexander Cornet, Anastasia Grebenyuk, Johannes Engelbrecht, Maria Habel, Claus Thielert, James Dickinson, Bruce Burnett, Simon Ruckinger, Robert Zerbib, Dorothee Neukirchen, Renfeng Guo, Diederik Van De Beek, Niels Riedemann
- 
- OA787** **Dead-space ventilation indices and mortality in acute respiratory distress syndrome: a systematic review and meta-analysis.**  
Dilip Jayasimhan (Hamilton, New Zealand), Jennifer Chieng, John Kolbe, David Sidebotham
- 
- OA788** **long-term outcomes in critical covid-19 survivors: a 2-year longitudinal cohort**  
Jessica Gonzalez Gutierrez (Lleida, Spain), Maria Zuñil, Iván D. Benítez, Jordi De Batlle, Maria Aguilà, Sally Santistevé, Natalia Varvará, Aida Monge, Nuria Fornés, Rafaela Vaca, Olga Minguez, Faty Seck, Clara Gort-Paniello, Anna Moncusí-Moix, Ricard Ferrer, Adrián Ceccato, Laia Fernández, Ana Motos, Jordi Riera, Rosario Menéndez, Dario Garcia-Gasulla, Oscar Peñuelas, Gonzalo Labarca, Jesús Caballero, Carme Barberà, David De Gonzalo-Calvo, Antoni Torres, Ferran Barbé
- 
- OA789** **Lung microbiota compositions differ between influenza, COVID-19 and bacteria-related acute respiratory distress syndrome**  
Renaud Prével (Bordeaux, France), Sébastien Imbert, Raphaël Enaud, Mathilde Revers, Arthur Orioux, Florian Lussac-Sorton, Adrian Camino, Alexandre Massri, Laurent Villeneuve, Cédric Carrié, Laurent Petit, Alexandre Boyer, Patrick Berger, Didier Gruson, Laurence Delhaes
- 
- OA790** **Tranexamic acid to treat hemoptysis in real life (ATHENE study)**  
Marie Gaffier (Paris, France), Annabelle Beaudoin, Emilie Lanoy, Vincent Rothstein, Amer Hamdan, Thibaud Soumagne, Olivier Sanchez, Benjamin Planquette
- 
- OA791** **Discussion and Q&A**  
All Speakers

## Gold Session 101 10:15 - 11:45

### Clinical cases: Lungs on fire: airway diseases?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Airway diseases Pulmonary vascular diseases Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Vanessa M. McDonald (Newcastle (NSW), Australia)

**Discussants** : Emer Kelly (Dublin 4, Ireland), Marc Miravittles (Barcelona (CT), Spain)

<b>10:15</b>	<b>Case 1 incl. panel discussion and Q&amp;A - Author: L. Elsey (United Kingdom)</b> Emer Kelly (Dublin 4, Ireland)	<b>792</b>
<b>10:37</b>	<b>Case 2 incl. panel discussion and Q&amp;A - Author: B. Martins (Portugal)</b> Marc Miravittles (Barcelona (CT), Spain)	<b>793</b>
<b>10:59</b>	<b>Case 3 incl. panel discussion and Q&amp;A - Author: O. E. Terzi (Turkey)</b> Emer Kelly (Dublin 4, Ireland)	<b>794</b>
<b>11:21</b>	<b>Case 4 incl. panel discussion and Q&amp;A - Author: H. Madsen (Denmark)</b> Marc Miravittles (Barcelona (CT), Spain)	<b>795</b>

## Silver Session 102 10:15 - 11:45

### Clinical trials session: ALERT 1: pharmacological treatments

#### Treatment of COPD, asthma, ILD, PCD, and lung transplantation

**Aims** : The ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials) showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, discussants, session chairs and the audience will actively discuss the showcased trials.

**Disease(s)** : **Airway diseases** **Sleep and breathing disorders** **Interstitial lung diseases** **Respiratory critical care**

**Method(s)** : General respiratory patient care Pulmonary function testing Cell and molecular biology Transplantation

**Tag(s)** : Clinical

**Chairs** : Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

**Discussants** : Katerina Antoniou (Heraklion, Greece), Dave Singh (Manchester, United Kingdom)

<b>RCT796</b>	<b>RCT Abstract - Acetazolamide to prevent impending altitude-related adverse health effects in COPD patients. RCT</b> Michael Furian (Zürich, Switzerland), Aurelia Reiser, Maamed Mademilov, Konstantinos Bitos, Simone Buenzli, Ainura Abdraeva, Benoit Champigneulle, Arcangelo Carta, Meret Bauer, Tanja Ulrich, Julian Mueller, Mirjam Grimm, Simon Schneider, Nurdin Shakiev, Aijan Taalaibekova, A Ozonova, Kamilla Magdieva, Gulzada Mirzalieva, A Akylbekov, S Shabykeeva, Talant Sooronbaev, Silvia Ulrich, Konrad Bloch
<b>RCT797</b>	<b>RCT Abstract - High-dose (40 mg) versus low-dose (20 mg) prednisolone for treating sarcoidosis: a randomised trial (SARCORT trial)</b> Sahajal Dhooria (Chandigarh, India), Inderpaul Singh Sehgal, Ritesh Agarwal, Kuruswamy Thurai Prasad, Ashutosh Nath Aggarwal
<b>RCT798</b>	<b>Late Breaking Abstract - SHAMAL: reduction of maintenance inhaled corticosteroids in patients with severe eosinophilic asthma treated with benralizumab: a randomised phase 4 study</b> David J Jackson (London, United Kingdom), Liam G Heaney, Marc Humbert, Brian D Kent, Lina Hiljemark, Lynda Olinger, David Cohen, Andrew Menzies-Gow, Stephanie Korn
<b>RCT799</b>	<b>Wrap-up by discussant and discussion</b> Dave Singh (Manchester, United Kingdom)
<b>RCT800</b>	<b>RCT Abstract - BMS-986278 for progressive pulmonary fibrosis (PPF): results from a phase 2 randomized controlled trial</b> Tamera Corte (Camperdown (NSW), Australia), Jüergen Behr, Vincent Cottin, Marilyn K. Glassberg, Michael Kreuter, Fernando Martinez, Takashi Ogura, Takafumi Suda, Marlies Wijsenbeek, Brandon Elpers, Sinae Kim, Hideaki Watanabe, Aryeh Fischer, Toby M. Maher
<b>RCT801</b>	<b>RCT Abstract - Safety and efficacy of idrevloride in people with primary ciliary dyskinesia: a double-blind, randomized, placebo-controlled crossover trial (CLEAN-PCD)</b> Thomas Ferkol (Chapel Hill, United States), Felix C Ringshausen, Adam J Shapiro, Kim G Nielsen, Henryk Mazurek, Massimo Pifferi, Karl H Donn, Menno M Van Der Eerden, Michael R Loebinger, Maimoona A Zariwala, Margaret W Leigh, Michael R Knowles
<b>RCT802</b>	<b>RCT Abstract - ScanCLAD: a Scandinavian multicenter randomized study evaluating if once-daily tacrolimus versus twice-daily cyclosporine reduces the 3-year incidence of chronic lung allograft dysfunction after lung transplantation</b> Göran Dellgren (Göteborg, Sweden), Thomas Kromann Lund, Peter Raivio, Inga Leuckfeld, Johan Svahn, Erik C. Holmberg, Peter Skov Olsen, Majja Halme, Arnt Fiane, Sandra Lindstedt, Gerdt C. Riise, Jesper Magnusson
<b>RCT803</b>	<b>Wrap-up by discussant and discussion</b> Katerina Antoniou (Heraklion, Greece)
<b>RCT804</b>	<b>Closing remarks</b> All Speakers



## Coral 4+5

## Session 103

10:15 - 11:45

## Hot topics: Disease modification in pulmonary arterial hypertension

**Aims :** to describe the goal for new disease-modifying treatment of pulmonary arterial hypertension (PAH); to review whether the currently available treatments really change PAH evolution; to describe new therapies affecting different signalling pathways that may modify disease progression.

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Cell and molecular biology Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational)

**Chairs :** Silvia Ulrich (Zurich, Switzerland), Giovanni Viegi (Pisa (PI), Italy)

10:15	<b>Defining disease modification in PAH</b> Sandeep Sahay (Houston, United States)	805
10:30	<b>Are approved PAH drugs disease-modifying?</b> Olivier Sitbon (Le Kremlin-Bicêtre, France)	806
10:45	<b>Sotatercept for the treatment of PAH: an update</b> Marius M. Hoeper (Hannover, Germany)	807
11:00	<b>Moving the field forward: novel pathways and targets for reverse remodelling</b> Soni Savai Pullamsetti (Giessen, Germany)	808
11:15	<b>Discussion and Q&amp;A</b> All Speakers	809

## Coral 3

## Session 104

10:15 - 11:45

## Journal session: Cystic fibrosis in the era of highly effective cystic fibrosis transmembrane conductance regulator modulator therapy

## Highlights from The Lancet and The Lancet Respiratory Medicine

**Aims :** to bring together leaders in the field to provide an overview of the clinical and research landscape in the era of highly effective cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapy; to provide insights into disease mechanisms; to review progress in the development of small-molecule CFTR modulator therapies; to discuss and consider the needs of people with cystic fibrosis who are eligible for current CFTR modulators and the unmet needs of patients for whom CFTR-directed therapies are not available at present, highlight novel treatment approaches in development that could shape the future of clinical care and outline priorities for research.

**Disease(s) :** Airway diseases Paediatric respiratory diseases Respiratory infections

**Method(s) :** Cell and molecular biology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Rebecca Craven (London, United Kingdom), Andrew Bush (London, United Kingdom), Raquel Duarte (Porto, Portugal)

10:15	<b>CFTR modulator therapy: transforming the landscape of clinical care in cystic fibrosis</b> Damian Downey (Belfast, Ireland)	810
10:30	<b>Understanding and addressing the needs of people with cystic fibrosis in the era of highly effective CFTR modulator therapy</b> Katherine Hisert (Denver, United States)	811
10:45	<b>The future of cystic fibrosis treatment: from disease mechanisms to novel therapeutic approaches</b> Marcus Mall (Berlin, Germany)	812
11:00	<b>The future of clinical trials in cystic fibrosis</b> Nicole Mayer-Hamblett (Seattle, United States)	813
11:15	<b>Discussion and Q&amp;A</b> All Speakers	814

## Coral 1

## Session 105

10:15 - 11:45

## Symposium: Infectious and noninfectious complications of immunosuppressed patients

**Aims :** to highlight the different complications of immunosuppressed patients; to focus on difficult-to-manage respiratory infections and innovative approaches such as phage therapy and its application, and preventive and treatment strategies for fungal pulmonary infections; to address the pathogenesis and treatment approaches of noninfectious complications, either immune-driven (chronic lung allograft dysfunction (CLAD) and graft-versus-host disease (GVHD)) or drug-related.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Pulmonary function testing Transplantation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Thoracic surgeon

**Chairs :** Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)

10:15	<b>Patient's perspective</b> Claudia Stiglmayr-Keshishzadeh (, Germany)	815
10:20	<b>Multidrug-resistant bacterial pulmonary infections: challenges of phage therapy</b> Mariagrazia Di Luca (Pisa, Italy)	816
10:35	<b>Fungal infections in solid organ and bone marrow transplant recipients: preventive and treatment strategies</b> Husain Shahid (Toronto (ON), Canada)	817
10:50	<b>Chronic lung allograft dysfunction and chronic GVHD: common pathogenic mechanisms and clinical features?</b> Robin Vos (Leuven, Belgium)	818
11:05	<b>CLAD and chronic pulmonary GVHD: old and new therapeutic approaches</b> Daniel Wolff (Regensburg, Germany)	819
11:20	<b>Discussion and Q&amp;A</b> All Speakers	820

## Coral 2 Session 106 10:15 - 11:45

### Symposium: Obesity and the lung: from wakefulness to sleep

**Aims :** to present the latest advances in basic and clinical research, with a clear translational component, about the relationship between obesity and respiratory function (from wakefulness to sleep); to identify the latest advances in the description of pathophysiological mechanisms related to obesity and pulmonary dysfunction, considering a wide age spectrum, from childhood to adulthood; to present the available evidence that shows the effect of obesity on the functional level in ventilatory mechanics; to explore recent and significant advances in the study of the gut microbiota and its relationship with the manifestation of pulmonary pathology; to present the latest studies showing the different therapeutic options and clinical management of patients with obesity hypoventilation syndrome.

**Disease(s) :** Airway diseases Paediatric respiratory diseases Sleep and breathing disorders

**Method(s) :** Physiology Pulmonary function testing Respiratory intensive care

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Angela Zacharasiewicz (Wien, Austria), Johan Verbraecken (Edegem (Antwerp), Belgium)

10:15	<b>Pathophysiological mechanism linking obesity and lung dysfunction: from childhood to adults</b> Stefania Redolfi (Cagliari, Italy)	821
10:30	<b>Mechanics of the lungs and chest wall in obesity and respiratory compliance</b> Anne Dixon (Charlotte, United States)	822
10:45	<b>Crosstalk between the gut microbiota and lung diseases</b> Niki Ubags (Epalinges, Switzerland)	823
11:00	<b>Obesity and sleep-related hypoventilation: new perspectives for clinical management and therapeutic interventions</b> Juan Fernando Masa Jiménez (Cáceres, Spain)	824
11:15	<b>Discussion and Q&amp;A</b> All Speakers	825

**Purple** Session 107 10:15 - 11:45**Mini symposium: Bronchoscopy in challenging situations****Respiratory failure, infectious diseases, bleeding from airways**

**Aims :** to describe the difficulties of performing bronchoscopy in selected life-threatening situations; to describe possible complications and risks for patients and the medical team; to present potential solutions and describe use of particular devices and procedures to minimise the risk of complications and to enable the procedure to obtain diagnostic material or resolve life-threatening problems.

**Disease(s) :** Respiratory critical care Respiratory infections Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic oncologist

**Chairs :** Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

10:15	<b>Patients with respiratory failure: how to make a bronchoscopic procedure still possible?</b> Szymon Skoczyński (Katowice, Poland)	826
10:30	<b>Bronchoscopy in highly contagious lung infections: what lessons did we learn from COVID-19?</b> Lina Zuccatosta (Torrette (AN), Italy)	827
10:45	<b>Bleeding from the airways: spontaneous or a complication of interventional procedures. What to do?</b> Samira Shojae (Richmond, United States)	828
11:00	<b>Discussion and Q&amp;A</b> All Speakers	829

**10:30-11:15****INDUSTRY SKILLS LAB WORKSHOP****SEE PAGE 1****ERS Stand/World Village** Session 110 10:30 - 11:30

Public: Coffee and clean air - 1

**Studio (White)** Session 111 10:30 - 11:15**Pro-Con debate: Rising from the ashes: exploring the benefits and challenges of early mobilisation**

**Aims :** to provide an overview of the importance of early mobilisation in patients with acute respiratory failure; to discuss the latest research and evidence regarding the benefits and challenges of early mobilisation in acute respiratory failure, including its impact on patient outcomes and quality of life; to highlight the practical aspects of implementing early mobilisation in clinical practice, including patient selection, timing and appropriate interventions.

**Disease(s) :** Respiratory critical care

**Method(s) :** Pulmonary rehabilitation Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Richard Costello (Dublin 9, Ireland), Anita Simonds (London, United Kingdom)

10:30	<b>Pro</b> Leo Heunks (Amsterdam, Netherlands)	836
10:45	<b>Con</b> Nicholas Hart (London, United Kingdom)	837
11:00	<b>Discussion and Q&amp;A</b> All Speakers	838

**Amber 1+2** Session 112 10:40 - 13:00**Skills workshop: SW2 Pulmonary rehabilitation: extending practice to improve health outcomes  
A personalised medicine approach**

**Aims :** to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Sarah Houben-Wilke (Horn, Netherlands)

10:40	<b>Introduction</b> All Speakers	839
10:40	<b>Physical activity assessment and intervention</b> Henrik Watz (Großhansdorf, Germany)	840
10:40	<b>Neuromuscular electrical stimulation: in who and how?</b> Roy Meys (Horn, Netherlands)	841
10:40	<b>How to improve balance and reduce falls in people undergoing pulmonary rehabilitation</b> Marla Beauchamp (Hamilton, Canada)	842
10:40	<b>Implementing mindfulness interventions into pulmonary rehabilitation</b> Alice Malpass (Bristol, United Kingdom)	843

## Amber 3+4 Session 113 10:40 - 13:00

### Skills workshop: SW17 Cardiac ultrasound in the management of pulmonary disease

**Aims :** Develop a rigorous and systematic approach in performing and analyzing cardiac ultrasound parameters in respiratory disease. Explain systolic function, diastolic function, right heart dysfunction during COPD patients, the management of pulmonary embolism. Explain the hemodynamic consequences of non-invasive ventilation and propose an echocardiographic monitoring for the best settings of non-invasive ventilation. Develop knowledge and understanding of echocardiographic parameters in patients with COPD, pulmonary embolism or requiring non-invasive ventilation.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care

**Tag(s) :** Clinical

**Chairs :** Paul M. Hassoun (Baltimore, United States)

10:40	<b>Introduction</b> All Speakers	844
10:40	<b>Assessment of diastolic function in COPD patients</b> Valentina Mercurio (Napoli, Italy)	845
10:40	<b>Cardiac ultrasound assessment of right heart function</b> Paul M. Hassoun (Baltimore, United States)	846
10:40	<b>Cardiac ultrasound for the management of pulmonary embolism</b> Mario Gerges (Vienna, Austria)	847
10:40	<b>Hemodynamic consequences of non-invasive ventilation</b> Bouchra Lamia (Le Havre, France)	848

## Red 1+2 Session 114 11:00 - 12:15

### Oral presentation: Novel insights for the management of interstitial lung disease of known cause

**Disease(s) :** Interstitial lung diseases

**Method(s) :** Epidemiology General respiratory patient care Imaging Cell and molecular biology Pulmonary function testing Palliative care Physiology

**Tag(s) :** Clinical

**Chairs :** Elena Bargagli (Siena, Italy), Kseniia Bielosludtseva (Dnipropetrovsk, Ukraine)

OA849	<b>Late Breaking Abstract - A pilot study of telemonitoring to detect acute exacerbations in fibrosing interstitial lung diseases</b> Yuanyuan Jia (YinChuan, China), Hongyan Fu, Juan Chen
OA850	<b>The automated e-Lung CT algorithm is more prognostic than lung function in patients with non IPF fibrotic ILD; a validation study</b> Peter George (London, United Kingdom), Christian Rennison-Jones, Giacomo Benvenuti, Wassim Bou-Zeid, Olivier Joly, Stephen Gerry, Claire Fernandez, George Harston, Anand Devaraj
OA851	<b>Dendritic cells as a potential new tool in predicting patient's survival in airway-centered interstitial fibrosis</b> Mateus Magalhães Lage Moraes (RIBEIRAO PRETO, Brazil), Wagner Moneda Telini, Sabrina Setembre Batah, Maria Julia Faci Do Marco, Heloisa Acurcio Zimmermann, Danilo Tadao Wada, Andrea De Cássia Vernier Antunes Cetlin, Marcel Koenigkam Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro
OA852	<b>Electronic nose technology detects connective tissue disease-associated interstitial lung disease</b> Karen Moor (Rotterdam, Netherlands), Iris G. Van Der Sar, Marlies S. Wijssenbeek
OA853	<b>AI-based quantification of ILD and pulmonary vasculature in a retrospective SSc-ILD cohort correlates with pulmonary function test: a perspective from the PROFILE.net ERS Clinical Research Collaboration</b> Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Clio Ribbens, Béatrice André, Renaud Louis, Leticia Gallardo Estrella, Jonne Engelberts, Jean-Paul Charbonnier
OA854	<b>Unveiling common molecular pathways linked to ILDs with progressive fibrosing phenotype: the role of MUC5B promoter variants</b> Helder Novais Bastos (Lousada, Portugal), Rita Santos, Catarina Gouveia Cardoso, Patrícia Caetano Mota, David Coelho, Melany Gonçalves, Andreia Coelho, Oksana Sokhatska, Marília Beltrão, Susana Guimarães, Conceição Souto Moura, André Carvalho, Luís Delgado, Miguel Soares, Natália Melo, André Terras Alexandre, António Morais, Margarida Saraiva
OA855	<b>Novel e-Lung CT biomarkers combine to provide higher prognostic discrimination than FVC in patients with non-IPF fibrotic interstitial lung disease</b> Peter George (London, United Kingdom), Giacomo Benvenuti, Christian Rennison-Jones, Wassim Bou-Zeid, Olivier Joly, Stephen Gerry, Claire Fernandez, George Harston, Anand Devaraj
OA856	<b>Skin transcriptomes link severity of skin involvement and lung function impairment in systemic sclerosis</b> Jana Zielonka (New Haven, United States), Ningshan Li, Zuoheng Wang, Xiting Yan, Jose Gomez
OA857	<b>Progression of interstitial lung disease in systemic sclerosis does not predict further progression</b> Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelytska, Håvard Fretheim, Imon Barua, Hilde Bjørkekjær, Mike Becker, Cathrine Brunborg, Cosimo Brunio, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carina Mihai, Øyvind Molberg, Oliver Distler
OA858	<b>Rheumatoid arthritis and idiopathic pulmonary fibrosis: a bidirectional Mendelian randomisation study</b> Joshua Solomon (Denver, United States), Olivia C. Leavy, Leticia Kawano-Dourado, Ian D. Stewart, Jennifer K. Quint, Raphael Borie, Bruno Crestani, Louise V. Wain, R. Gisli Jenkins, Philippe Dieude, Cosetta Minelli
OA859	<b>Discussion and Q&amp;A</b> All Speakers

## Brown 3 Session 115 11:00 - 12:15

### Oral presentation: Advances in the epidemiology, diagnosis and treatment of tuberculosis and non-tuberculous mycobacterial disease

**Disease(s) :** [Interstitial lung diseases](#)

**Method(s) :** Epidemiology Imaging Pulmonary function testing General respiratory patient care Respiratory intensive care Public health Endoscopy and interventional pulmonology

**Tag(s) :** Clinical

**Chairs :** Alberto Garcia-Basteiro (Maputo, Mozambique), Ayşegül Fusun Öner Eyüboğlu (Ankara, Turkey)

OA860	<b>Late Breaking Abstract - Global treatment outcomes of extensively drug-resistant tuberculosis in adults: A systematic review and meta-analysis</b> Ole Skouvig Pedersen (Aarhus C, Denmark), Freja Breth Holmgaard, Mads Kristian Duborg Mikkelsen, Cristoph Lange, Giovanni Sotgiu, Troels Lillebaek, Aase Bengaard Andersen, Christian Morberg Wejse, Victor Nasetholt Dahl
OA861	<b>DLCO, spirometry and PET/CT findings after completing tuberculosis treatment - preliminary findings of StatinTB/ExtendTB trial</b> Karen Wolmarans (Cape Town, South Africa), Sandra Mukasa, Antoneta Mashinyira, Patrick Katoto, Fareda Jakoet-Bassier, Tessa Kotze, Christian Buess, Reto Guler, Gunar Gunther, Friedrich Thienemann

OA862	<b>Tuberculosis drives impaired lung function: a systematic review and meta-analysis</b> Sharenja Ratnakumar (London, United Kingdom), Sally Hayward, Emma Denny, Lucy Goldsmith, Rebecca Evans, William Checkley, Delia Goletti, Catherine Ong, Mateusz Gotowiec, Junkai Zhu, Jon Friedland, Joanna Porter
OA863	<b>PET-CT reveals sites yielding culturable Mycobacterium tuberculosis infection in household TB contacts with a clinical phenotype of latent infection: A descriptive case series</b> Jee Whang Kim (Leicester, United Kingdom), Joanne Lee, Ismail Novsarka, Gerrit Woltmann, Raman Verma, Anver Kamil, Pranabashis Haldar
OA864	<b>Diagnostic accuracy of TB PCR in bronchoalveolar lavage samples, TRiBE - a multicentre prospective UK study</b> Mirae Park (London, United Kingdom), Giovanni Satta, Joan Nanan, Beatriz Tomas-Cordero, Meg Coleman, Laura Martin, Osman Hatem, Kavina Manalan, Arnab Datta, Ashley Whittington, Parul Kalia, Michael Loebinger, Helen Burgess, Lianne Castle, Heinke Kunst, Ronan Breen, Anne Dunleavy, Mohammed Munavvar, Prasheena Naran, Marc Lipman, Thomas Gorsuch, Pranab Haldar, Onn Min Kon
OA865	<b>Programmatic management of bedaquiline-pretomanid-linezolid regimens in Georgia.</b> Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Tamar Togonidze, Lali Mikiashvili
OA866	<b>2 versus 3-drug regimen to treat Mycobacterium avium complex infection: a systematic review and meta-analysis</b> Dong Nguyen Van (Danang, Vietnam), Hai Duong, Ming-Chia Lee, Chih-Hsin Lee
OA867	<b>Electronic nose in differentiating and ascertaining clinical status among patients with pulmonary nontuberculous mycobacteria: a prospective multicenter study</b> Jann-Yuan Wang (Taipei, Taiwan), Meng-Rui Lee, Hung-Ling Huang
OA868	<b>Longitudinal lung function in bronchiectasis patients with mycobacterium abscessus pulmonary disease</b> Ying Na Ho (Singapore, Singapore), Keith Zhi Xian Toh, John Arputhan Abisheganaden, Albert Yick Hou Lim
OA869	<b>Discussion and Q&amp;A</b> All Speakers

## Brown 1+2

## Session 116

11:00 - 12:15

## Oral presentation: Interpretative strategies for lung function testing

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Respiratory critical care](#)

Method(s) : Pulmonary function testing Physiology General respiratory patient care Epidemiology Imaging

Tag(s) : Clinical

Chairs : Monika Franczuk (Warszawa, Poland), Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

OA870	<b>Late Breaking Abstract - Lung volumes differentiate emphysema- vs. airway disease-dominant pathologies with distinct clinical features in tobacco-exposed persons with preserved spirometry in SPIROMICS</b> Mehrdad Arjomandi (San Francisco, United States), Siyang Zeng, Igor Barjaktarevic, Eugene R Bleecker, Russell P Bowler, Gerard J Criner, Alejandro P Comellas, David J Couper, Jeffrey L Curtis, Mark T Dransfield, M. Bradley Drummond, Spyridon Fortis, Meilan K Han, Nadia N Hansel, Eric A Hoffman, Robert J Kaner, Richard E Kanner, Jerry A Krishnan, Wassim Labaki, Stephen P Peters, Robert Paine III, Christopher B Cooper, Donald P Tashkin, Prescott G Woodruff
OA871	<b>New race neutral GLI equation impacts ethnic groups differently!</b> Ahmed Elmahy (Leuven, Belgium), Julie Maes, Paul Desbordes, Maarten De Vos, Marko Topalovic
OA872	<b>Effect of altitude on spirometry values in Latin American: A GLI Network ERS Clinical Research Collaboration</b> Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico), David Martínez-Briseño, Cole Bowerman, Sanja Stanojevic, Luciano Enrique Busi, Carlos Aguirre-Franco, Santiago C Arce, Monica Gutierrez Claveria, Carlos E Rodríguez-Martínez, Ana Moya Olivares, Vanessa Vernaza, Nilda Luz Palma Chambilla, Nelson Villca-Alá, Rosario Fernández-Plata, Rogelio Perez-Padilla, Carlos Valderrábano, Solange Caussade, Luis Torre-Bouscoulet
OA873	<b>Effect of changes in ERS-ATS 2021 bronchodilator significance reclassification on a large Australian community cohort</b> Thomas Ledger (Sydney, Australia), Keith Burgess
OA874	<b>Machine learning can predict patterns of pulmonary function</b> Michael Tisi (Toronto, Canada), Joyce Wu, Zoltán Hantos, Shahrokh Valaee, Chung-Wai Chow
OA875	<b>Minimal Clinically Important Difference for Impulse Oscillometry in Adults with Asthma</b> Mustafa Abdo (Grosshansdorf, Germany), Anne Kirsten, Erika Von Mutius, Matthias Kopp, Gesine Hansen, Klaus F Rabe, Henrik Watz, Frederik Trinkmann, Thomas Bahmer
OA876	<b>How sensitive are reversibility criteria in paediatric and adult asthma?</b> Samuel Wallbanks (BIRMINGHAM, United Kingdom), Paul Burns, Adel Mansur, Maximilian Thomas

- OA877** **Defining and grading an obstructive ventilatory disease: ATS/ERS interpretive strategies of 2005 vs 2021**  
Balsam Barkous (ARIANA, Tunisia), Khoulood Kchaou, Chaima Briki, Sirine Jamli, Saloua Ben Khamsa Jameleddine
- 
- OA878** **Normative lung clearance index (LCI) values using a commercial open circuit washout device in children from White British and Indian Subcontinent ethnic groups**  
Christopher Hine (Birmingham (West Midlands), United Kingdom), Maya Desai, Elizabeth Sapay, Jane C Davies, Prasad Nagakumar
- 
- OA879** **Normative reference equations for breathlessness intensity during CPET in people aged  $\geq 40$  years: the CanCOLD study**  
Magnus Ekström (Lund, Sweden), Pei Zhi Li, Hayley Lewthwaite, Jean Bourbeau, Wan Tan, Linus Schiöler, Andrew Brotto, Michael Stickland, Dennis Jensen
- 
- OA880** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 117

11:00 - 12:15

**Oral presentation: Risks of hospitalisation and mortality from chronic lung diseases****Disease(s)** : Airway diseases**Method(s)** : Epidemiology Public health Cell and molecular biology**Tag(s)** : Clinical**Chairs** : Om Prakash Kurmi (Coventry, United Kingdom), Ramesh Chokhani (Kathmandu, Nepal)

- OA881** **Late Breaking Abstract - Colostrum microbiome and childhood allergy**  
Caroline Lodge (Melbourne (VIC), Australia), Adrian Lowe, Xin Dai, Michael Abramson, Dharmage Shyamali
- 
- OA882** **Profiles of pregnancy and early-life urban and lifestyle exposures and respiratory health in children**  
Alicia Guillien (LA TRONCHE, France), Rémy Slama, Maribel Casas, Leda Chatzi, Montserrat De Castro, Berit Granum, Regina Grazuleviciene, Barbara Heude, Jordi Julvez, Norun Krog, Léa Maitre, Rosemary Mceachan, Mark Nieuwenhuijsen, Bente Oftedal, Cathrine Thomsen, Jose Urquiza, Marina Vafeiadi, John Wright, Martine Vrijheid, Xavier Basagaña, Valérie Siroux
- 
- OA883** **Risk of asthma in offspring of asthmatic fathers versus mothers: A population-based study of 21,000 individuals in Denmark**  
Morten Dahl (Køge, Denmark), Suzan Al-Shuweli, Eskild M. Landt, Christina Ellervik, Henrik E. Poulsen, Ramar Mohankumar, Alexey Fedulov
- 
- OA884** **Gabapentinoids and the risk of severe exacerbations in patients with chronic obstructive pulmonary disease**  
Alvi Rahman (Montreal, Canada), Sophie Dell'Aniello, Erica Moodie, Madeleine Durand, Janie Coulombe, Jean-François Boivin, Pierre Ernst, Christel Renoux
- 
- OA885** **Long-term outcomes between adults with and without breathlessness: a UK cohort study**  
Urvee Karsanji (London, United Kingdom), Claire A Lawson, Emily Petherick, Jennifer K Quint, Kamlesh Khunti, Michael C Steiner, Rachael A Evans
- 
- OA886** **Fetal exposure to vitamin D and risk of altered lung function and asthma throughout childhood: a meta-analysis of 14,000 children**  
Júlia Sangüesa (Sant Cugat del Vallès, Spain), Tarik Karamas, Mariona Bustamante, Dolores Pelegrí, Raquel Granell, Matt Boyton, Rachel Foong, Jennie Carson, Rae-Chi Huang, John Curtin, Martine Vrijheid, Maribel Casas, Liesbeth Duijts
- 
- OA887** **Treatment intensity level as a proxy for severity of COPD: A nationwide cohort study**  
Marie Dam Lauridsen (Aalborg, Denmark), Emil Fosbøl, Søren Paaske Johnsen, Ulla Weinreich Møller, Jan Valentin
- 
- OA888** **Respiratory symptom clusters and cause-specific mortality in a representative adult population**  
Daniil Lisik (Gothenburg, Sweden), Lowie Vanfleteren, Rani Basna, Linnea Hedman, Linda Ekerljung, Fredrik Nyberg, Göran Wennergren, Anne Lindberg, Hannu Kankaanranta, Eva Rönmark, Bright Nwaru, Helena Backman
- 
- OA889** **Long-term air pollution exposure and risk of SARS-CoV-2 infection: A UK-wide cohort study**  
Hajar Hajmohammadi (London, United Kingdom), Mohammad Talaei, Daniela Fecht, Weiyi Wang, Giulia Vivaldi, Sian Faustini, Alex Richter, Seif Shaheen, Adrian Martineau, Aziz Sheikh, Ian Mudway, Christopher Griffiths
- 
- OA890** **Lifetime body mass index trajectories and lung function and chronic obstructive pulmonary disease in the Tasmanian longitudinal health study (TAHS)**  
Gulshan Ali (Melbourne, Australia), Dinh Bui Bui, Haydn Walters, Jennifer Perret, Bircan Erbas, Paul Thomas, Caroline Lodge, Garun Hamilton, Bruce Thompson, David Johns, John Hopper, Gayan Bowatte, Michael Abramson, Adrian Lowe, Shyamali Dharmage

OA891 **Discussion and Q&A**  
All Speakers

**Yellow 1+2+3** **Session 118** **11:00 - 12:15**

**Oral presentation: From the transcriptome landscape to innovative preclinical models in lung diseases**

**Disease(s)** : **Airway diseases** **Interstitial lung diseases**

**Method(s)** : Cell and molecular biology Physiology

**Tag(s)** : Translational

**Chairs** : Arnaud Mailleux (Paris, France), Sara Cuevas Ocaña (Nottingham, United Kingdom)

OA892 **Late Breaking Abstract - Development of a bronchial epithelium with a sensory innervation both derived from induced pluripotent stem cells**  
Arnaud Bourdin (Montpellier Cedex 5, France), FLORENT FOISSET, Christine Lehalle, Amel Nasri, Carine Bourdais, Lisa Morichon, Isabelle Vachier, Said Assou, John De Vos, Nelly Frossard

OA893 **Late Breaking Abstract - Volatile organic compounds in exhaled breath reflect physiological changes in ultramarathon runners**  
Agnieszka Smolinska (Maastricht, Netherlands), Hsuan Chou, Kayleigh Arthur, Elen Shaw, Chad Schaber, Billy Boyle, Max Allsworth, Eli Kelley, Glenn Stewart, Courtney Wheatley, Jess Schwartz, Catlin Fermoye, Briana Ziegler, Kay Johnson, Paul Robach, Patrick Basset, Bruce Johnson

OA894 **Identification of abnormal airway niches in the fibrotic lung using Spatial Transcriptomics**  
Aurélien Justet (Caen, France), Jiayi Zhao, Taylor Adams, Agshin Balayev, Thomas Barnthaler, Sam Raredon, Fernando Poli De Frias, Juan Cala-Garcia, John Mcdonough, Amy Zhao, Liu Yunqing, Li Ningshan, Wang Anita, Ivan Rosas, Xiting Yan, Naftali Kaminski

OA895 **Single-cell RNA sequencing of bronchoalveolar lavage reveals pro-inflammatory macrophage activation in fibrotic hypersensitivity pneumonitis**  
Avraham Unterman (Tel Aviv, Israel), Tali Hana Bar-Lev, Yan Stein

OA896 **Transcriptomic landscape of post-covid-19 pulmonary fibrosis (PCPF): insights and implications of bronchoalveolar lavage (BAL)**  
Mohammad Shadab Ali (New Delhi, India), Vijay Hadda, Anita Chopra, Sonia Verma, Anant Mohan

OA897 **LSC - 2023 - In vitro modelling of respiratory infections in Idiopathic Pulmonary Fibrosis using patient-specific hiPSC-derived alveolar epithelial cells**  
Serna Valverde Ana Lilia (Nottingham, United Kingdom), Liam Reed, Sara Cuevas Ocaña, Peggy Cho Kiu Lo, Amanda Tatler, Gisli Jenkins, Nicholas Rf Hannan

OA898 **Preclinical evaluation of HL001, a novel lysophosphatidic acid 1 (LPA1) receptor antagonist, for idiopathic pulmonary fibrosis utilizing physiologically relevant stem cell-derived lung organoids**  
Yuki Yamamoto (Kyoto, Japan), Tetsuharu Nagamoto, Harry Choi, Shunsuke Ito, Masako Kishihata, Noriaki Iwase, Kenichi Arai, Masahiro Kojima, Kenji Nishikawa, Eiji Okanari, Yuuko Shinohara

OA899 **Dual  $\alpha V\beta 6/\alpha V\beta 1$  integrin inhibitor bexotegrast reduces fibrogenesis in pathological cell populations present in the fibrotic human lung**  
Martin Decaris (South San Francisco, United States), (, ), Mahru An, Richard Ahn, Steve Ho, Vikram Rao, Erine Budi, Brenda Ho, Jessie Lao, Chris Her, Paul Wolters, Tushar Desai, Johanna Schaub, Scott Turner

OA900 **Involvement of the CXCR4/CXCL12 axis in skeletal muscle wasting in a murine model of Chronic Obstructive Pulmonary Disease (COPD)**  
Pauline Henrot (Pessac, France), Pierre Schilfarth, Marilyne Campagnac, Elise Maurat, Pauline Estèves, Jean-William Dupuy, Reshed Abohalaka, Olivier Chassande, Maéva Zysman, Patrick Berger, Isabelle Dupin

OA901 **Discussion and Q&A**  
All Speakers

**Studio (White)** **Session 119** **11:45 - 13:20**

**Year in review: Paediatric year in review**

**Aims** : to provide an update on four topics in paediatric respiratory medicine, namely, paediatric asthma in low-income settings, imaging in paediatric respiratory diseases, primary ciliary dyskinesia and long-term consequences of preterm birth; to highlight the most recent and significant literature and developments relating to these topics.



**Disease(s)** : Airway diseases Paediatric respiratory diseases Respiratory infections**Method(s)** : Epidemiology Imaging Public health**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Journalist**Chairs** : Monika Gappa (Düsseldorf, Germany), Susanne Vijverberg (Amsterdam, Netherlands)

11:45	<b>Asthma care in low-resource settings: towards solutions</b> Refiloe Masekela (Durban, South Africa)	902
12:00	<b>Imaging in paediatric respiratory diseases: where are we now?</b> Pierluigi Ciet (Rotterdam, Netherlands)	903
12:15	<b>Discussion and Q&amp;A</b> All Speakers	904
12:30	<b>Break</b> All Speakers	905
12:35	<b>Primary ciliary dyskinesia: diagnosis and management</b> Amelia Shoemark (Dundee (Angus), United Kingdom)	906
12:50	<b>Preterm birth and long-term consequences</b> Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)	907
13:05	<b>Discussion and Q&amp;A</b> All Speakers	908

12:15-13:15

INDUSTRY LUNCHTIME SYMPOSIUM

SEE PAGE 1

PS-1 in poster area

Session 129

12:30 - 14:00

Poster session: Rehabilitation of chronic respiratory diseases

**Disease(s)** : Airway diseases Interstitial lung diseases Thoracic oncology**Method(s)** : Pulmonary rehabilitation General respiratory patient care Physiology Pulmonary function testing Epidemiology Surgery Public health**Tag(s)** : Clinical**Chairs** : Anouk W. Vaes (Horn, Netherlands), Jennifer Alison (Killara (NSW), Australia)

PA951	<b>Body Reprogramming for the extra-pulmonary symptoms of severe asthma</b> Joseph Lanario (Plymouth (Devon), United Kingdom), Drew Davies, Michael Hyland, Rupert Jones, Matthew Masoli
PA952	<b>Patient views on pulmonary rehabilitation and maintenance programs: a French national survey</b> Francois Alexandre (Lodeve, France), Virginie Molinier, Amandine Calvat, Laurène Charbonnel, Benjamin Eichenauer, Magali Poulain, Estelle Villiot-Danger, Catherine Miffre, Nicolas Oliver, Nelly Héraud
PA953	<b>Occupational asthma and allergic asthma: differences in the physical activity level, clinical control, and airway inflammation</b> Ronaldo Aparecido Da Silva (São Paulo (SP), Brazil), Lucas Rodrigues Silva Freitas, Francine Maria De Almeida, Clóvis Eduardo Santos Galvão, Soraia Felix Nogueira, Suellen Karoline Moreira Bezerra, Celso Ricardo Fernandes De Carvalho, Kaique Alves De Araujo, Fabiola Matos Da Cruz, Rosana Câmara Agondi, Milton Arruda Martins, Iolanda De Fátima Lopes Calvo Tibério, Beatriz Manguera Saraiva-Romanholo
PA954	<b>Rehabilitation outcomes for an exercise based multi-morbid rehabilitation programme – a survey of healthcare professionals</b> Sally J. Singh (Leicester (Leicestershire), United Kingdom), Susan Smith, Frances Mair, Rachael Evans, Paulina Daw, Colin Greaves, Sharon Simpson, Rod Taylor
PA955	<b>Effect of adding cognitive training to pulmonary rehabilitation program in patients with chronic obstructive pulmonary diseases: a randomised controlled trial.</b> oussama Tabka (Evry courcouronnes, France), Marwa Mekki, Amal Acheche, Monia Zaouali, Yassine Trabelsi

PA956	<b>Comparison of the effects of pulmonary and cognitive telerehabilitation in severe COPD</b> Amine Atac (Istanbul, Turkey), Esra Pehlivan, Fulya Senem Karaahmetoglu, Zeynep Betul Ozcan, Halit Cınarka, Mustafa Cortuk, Kursad Nuri Baydili, Erdogan Cetinkaya
PA957	<b>Chronic obstructive pulmonary disease in elderly</b> Sabrine Majdoub Fehri (Nabeul, Tunisia), Rahma Sellami, Imen Ketata, Hamida Kwass
PA958	<b>Breathlessness and disability in different domains of life: a population-based, cross-sectional study</b> Vanessa Brunelli (Cooma, Australia), Slavica Kočovska, Diana Ferreira, Sungwon Chang, Deidre Morgan, Thomas Similowski, Miriam Johnson, Magnus Ekström, David Currow
PA959	<b>Feasibility of a shared decision-making intervention for individuals with COPD considering Pulmonary Rehabilitation</b> Sally J. Singh (Leicester (Leicestershire), United Kingdom), Amy Barradell, Hilary Bekker, Linzy Houchen-Wolloff, Kim Marshall-Nichols, Noelle Robertson
PA960	<b>Effects of a respiratory physiotherapy program on extraesophageal reflux disease symptoms</b> Pavla Horova (Pardubice, Czech Republic), Martin Dvoracek, Ana Oliveira, Katerina Raisova
PA961	<b>An overview of systematic reviews of exercise-based interventions for people with long-term conditions</b> Lucy Gardiner (Leicester, United Kingdom), Grace O Dibben, Hannah M L Young, Sally Singh, Rod S Taylor, Perform Collaborative Group
PA962	<b>Correlation between a new incremental step test and the incremental shuttle walk test in people with COPD</b> Rui Vilarinho (Maia, Portugal), Tânia Gonçalves, Cátia Caneiras, António Mesquita Montes
PA963	<b>Comprehensive Geriatric Assessment for people with COPD and frailty starting pulmonary rehabilitation: a mixed methods feasibility RCT</b> Lisa Jane Brighton (London, United Kingdom), Catherine J Evans, Morag Farquhar, Katherine Bristowe, Aleksandra Kata, Jade Higman, Margaret Ogden, Claire M Nolan, Deokhee Yi, Wei Gao, Maria Koulopoulou, Sharmeen Hasan, Karen Ingram, Stuart Clarke, Kishan Parmar, Eleni Baldwin, Claire J Steves, William D C Man, Matthew Maddocks
PA964	<b>Educational needs of patients with COPD and asthma entering pulmonary rehabilitation and their significant others: a cross-sectional study</b> Anouk Jacoba Muijsenberg (Horn, Netherlands), Sarah Houben-Wilke, Jan Tatousek, Joyca Lacroix, Martijn Spruit, Daisy Janssen
PA965	<b>Co-designing chronic lung disease education resources with Aboriginal Health Workers (AHWs) and exercise physiologists (EPs)</b> Jennifer Alison (Killara (NSW), Australia), David P Meharg, Sarah M Dennis, Justin McNab, Kylie G Gwynne, Christine R Jenkins, Graeme P Maguire, Stephen Jan, Tim Shaw, Zoe Mckeough, Boe Rambaldini, Vanessa Lee, Debbie Mccowen, Jamie Newman, Scott Monaghan, Hayley Longbottom, Sandra J Eades
PA966	<b>Is longer really better? Results of a real-life study comparing once- versus twice-weekly home-based pulmonary rehabilitation session in people with COPD.</b> Sarah Gephine (Pérenchies, France), Olivier Le Rouzic, Cecile Chenivresse, Jean-Marie Grosbois
PA967	<b>Development of a questionnaire to capture perspectives of COPD patients undergoing pulmonary rehabilitation (PR): An ongoing process.</b> Adis Halilovic (Hartford, United States), Bruce Bernstein, Rebecca Crowell, Mary Gawlicki, Jane Reardon, Kendra Williams, Richard Zuwallack
PA968	<b>Association of physical activity and CAT score in a longitudinal COPD cohort</b> Maximilian Boesch (St.Gallen, Switzerland), Frank Rassouli, Florent Baty, Martin Brutsche
PA969	<b>Physical performance of non-small cell lung cancer patients 3 months post treatment initiation compared to healthy peers</b> Eva Arents (Knokke, Belgium), Kirsten Quadflieg, Sarah Haesevoets, Fien Hermans, Maarten Criel, Marc Daenen, Eric Derom, David Ruttens, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Michiel Thomeer, Chris Burtin, Heleen Demeyer
PA970	<b>Pulmonary rehabilitation survey in Japan in 2022; comparison with survey in 2014</b> Hideki Katsura (Tokyo, Japan), So Imamura

PS-10 in poster area

Session 130

12:30 - 14:00

Poster session: Biomarkers in asthma

**Disease(s) :** Airway diseases**Method(s) :** Epidemiology Physiology Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Public health Cell and molecular biology**Tag(s) :** Translational**Chairs :** Renaud Louis (Liège, Belgium), Andrei Malinovski (Uppsala, Sweden)

<b>PA971</b>	<b>Particles in exhaled air (PExA) - the protein composition in children</b> Kristiina Malmstrom (Helsinki, Finland), Marjut Lehtinen, Ulrich Bergmann, Seppo Sarna, Venla Aaltonen, Erik Qvist, Maria Juusela
<b>PA972</b>	<b>Burden of disease in asthma, stratified by eosinophils levels: a UK biobank study</b> Catia C Proenca (Basel, Switzerland), Aurelie Chekroun Martinot, Oscar Dumoulin, Mathieu Rose
<b>PA973</b>	<b>Exhaled volatiles to rule out asthma in symptomatic, untreated adults</b> Ran Wang (Manchester (Greater Manchester), United Kingdom), Waqar Ahmed, Emma Barrett, Laura Healy, Sarah Drake, Clare Murray, Angela Simpson, Stephen Fowler
<b>PA974</b>	<b>Circulating cell-free miRNA as biomarkers of asthma severity</b> piera soccio (Foggia (FG), Italy), Giorgia Moriondo, Donato Lacedonia, Pasquale Tondo, Carla Maria Irene Quarato, Giorgia Lepore, Annarita Depalo, Antonella Santoro, Anela Hoxhallari, Maria Pia Foschino Barbaro, Giulia Scioscia
<b>PA975</b>	<b>The role of alarmins in mixed neutrophilic/eosinophilic asthma</b> Elisa Arrigo (Orbassano, Italy), Vitina Carriero, Francesca Bertolini, Giuseppe Guida, Stefano Levra, Gino Villetti, Daniela Miglietta, Fabio L. M. Ricciardolo
<b>PA976</b>	<b>Characteristics of Aspergillus sensitized severe asthma patients in a single-center SHARP cohort</b> Katarina Pelicon Slabanja (Šempas, Slovenia), Matevž Harlander, Saša Rink, Simone Hashimoto, Jacob K. Sont, Elisabeth H. Bel, Sabina Skrgat
<b>PA977</b>	<b>Methacholine challenge test versus nitrogen washout in patients with suspicion of asthma and normal spirometry.</b> Aline Stalder Siebeneichler (Basel, Switzerland), Desiree Schumann, Meropi Karakioulaki, Nora Braschler, Andrei Darie, Michael Tamm, Daiana Stolt
<b>PA978</b>	<b>Inflammatory phenotype categorized by proximal and distal airway in patients with stable asthma</b> Kensuke Fukumitsu (Nagoya, Japan), Yoshihiro Kanemitsu, Keima Ito, Hirono Nishiyama, Tomoko Tajiri, Yuta Mori, Satoshi Fukuda, Takehiro Uemura, Hirotsugu Ohkubo, Ken Maeno, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi
<b>PA979</b>	<b>Muscle function in moderate to severe asthma: association with functional and clinical outcomes</b> Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Tim Van Zutphen, Huib A.M. Kerstjens, Anneke Ten Brinke
<b>PA980</b>	<b>Association between neutrophil-to-lymphocyte ratio and severity of asthma exacerbation</b> Yosr Aloulou (Manouba, Tunisia), Houda Snene, Hana Blibech, Rym Cheour, Sameh Belhadj, Jalloul Daghfous, Nedja Mehiri, Nozha Ben Salah, Bechir Louzir
<b>PA981</b>	<b>Correlation between FeNO and level of adherence to inhaled corticosteroids in pediatric asthma patients in a developing country</b> Pedro David Vargas Duque (bogota, Colombia), Daniela Cleves, Ranniery Acuña Cordero, Paula Aguilera Otalvaro, Bethy Camargo, Ricardo Aristizabal Duque, Carlos Rodriguez Martinez
<b>PA982</b>	<b>Treatable traits and their impact on asthma outcomes in a multi-racial difficult asthma cohort</b> Kundan Reddy Saripalli (Singapore, Singapore), Nicole Sieow, Wilson Chan, Xue Ning Choo, Anthony Yii, Tunn Ren Tay
<b>PA983</b>	<b>Are lipid mediators correlated to asthma features?</b> Meriem Mjid (Tunis, Tunisia), Bochra Jamoussi, Abir Hedhli, Khadija Euch, Sameh Hadj Taieb, Yacine Ouahchi, Sana Cheikh Rouhou, Sonia Toujani, Moncef Fekih, Besma Dhahri
<b>PA984</b>	<b>Diagnostic values of FeNO, allergosorbent test and serum immunoglobulin E level in mild asthma patients with normal spirometry</b> Dae Sung Hyun (Daegu, Republic of Korea), Kyung Chan Kim, Chi Young Jung, Keum Ju Choi
<b>PA985</b>	<b>Clinical characteristics, biomarkers, and lung function of adolescent vs adult asthma patients</b> Alison Church (Durham, United States), Kevin Murphy, Robert S. Zeiger, David A. Beuther, Robert A. Wise, Joan Reibman, Maureen George, William Mccann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin Coyne, Bradely E. Chipps
<b>PA986</b>	<b>Acoustic biomarkers in asthma monitoring</b> Karolina Wiczorek (London, United Kingdom), Zofia Przepasniak, Diana Velazquez-Pimentel

- PA987** **Patterns of adherence and nonadherence among asthma patients in a tertiary hospital**  
Mohammed Almutairi (Birmingham, United Kingdom), John Marriott, Hanan Hussein, Lisa White, Sharron Gilbey, Baljit Ahitan, Adel Mansur
- PA988** **Comparision of changes observed in forced midexpiratory flow of patients who underwent spirometry with both positive and negative bronchodilator test.**  
Cristina Sánchez Fernández (Oropesa, Spain), Walther Ivan Girón Matute, Zichen Ji, Javier De Miguel Díez, Luis Puente Maestu
- PA989** **Sputum cell counts and FeNO levels in patients treated with anti-IgE and anti-IL-5 /IL-5R: Evidence for a dissociation between sputum eosinophil counts and FeNO levels**  
Mare Sabbe (Olne, Belgium), Florence Schleich, Nicolas Bougard, Catherine Moermans, Monique Henquet, Françoise Guissard, Carole Sanschez, Virginie Paulus, Renaud Louis
- PA990** **Late Breaking Abstract - Enhancing asthma management through advanced prediction of indoor pollutant peaks: a 30-minute forecasting model for trigger avoidance and early intervention**  
Victor Higgs (London, United Kingdom), Hanya Ahmed, Jona Angelica Flavier

**PS-11 in poster area****Session 131****12:30 - 14:00****Poster session: Smoking cessation****Disease(s) :** [Interstitial lung diseases](#) [Thoracic oncology](#) [Airway diseases](#) [Sleep and breathing disorders](#)**Method(s) :** Cell and molecular biology Imaging General respiratory patient care Epidemiology Pulmonary function testing Public health**Tag(s) :** Clinical**Chairs :** Paraskevi Katsaounou (Athens, Greece), Siyu Dai (Hangzhou, China)

- PA991** **Healthy lungs for life for schools – developing an early life intervention to prevent chronic adult lung disease (a CADSET pilot project)**  
Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Jessica Denning, Paola Pierucci
- PA992** **An example of comprehensive approach to tobacco cessation: Collaboration with Rheumatology Clinic**  
Dilek Karadoğan (Rize, Turkey), Osman Cüre, Tahsin Gökhan Telatar, Kadir İlkılıç
- PA993** **Effectiveness of smoking cessation program in hospitalized patients**  
Dilek Karadoğan (Rize, Turkey), Esin Bilgin Konyalıhatipoğlu, Tahsin Gökhan Telatar, Ünal Şahin
- PA994** **Strategies to deliver smoking cessation interventions during targeted lung health screening, a systematic review and meta-analysis.**  
Parris Williams (London, United Kingdom), Keir Philip, Saeed Alghamdi, Alexis Perkins, Sara Buttery, Michael Polkey, Anthony Laverty, Nicholas Hopkinson
- PA995** **E-cigarettes dependence comparing to traditional cigarettes: a pilot Tunisian study**  
Houda Rouis (Ariana, Tunisia), Nour Mahmoud, Chirine Moussa, Abdelnadher Mahdi, Maalej Sonia
- PA996** **Smoking behavior change and the risk of pneumonia hospitalization among patients with diabetes mellitus**  
Dong-Woo Han (Seoul, Republic of Korea), Wonyoung Jung, Kyu Na Lee, Kyungdo Han, Dong Wook Shin, Sei Won Lee
- PA997** **Lung cancer as a comorbidity in patients with Combined Pulmonary Fibrosis and Emphysema Syndrome**  
Jolanda Nikolla (Tirana, Albania), Daniela Xhemalaj
- PA998** **Impact of COVID-19 pandemic on change in tobacco use behavior**  
Makiko Kanai (Kyoto, Japan), Osamu Kanai, Takahiro Tabuchi, Tadashi Mio
- PA999** **Prevalence of smoking in adolescents.**  
Khurshidbek Tashmetov (Ташкент, Uzbekistan), Naima Ubaydullaeva, Gulchekhra Tashmetova
- PA1000** **COMPARISON OF RESPIRATORY SYMPTOMS AMONG ADULTS WITH VERSUS WITHOUT VAPING, SMOKING, AND DUAL-USE: A CROSS-SECTIONAL STUDY IN A CALL CENTER IN QUEZON CITY**  
Catherine Joy Tubig (Quezon city, Philippines), Ma. Encarnita Limpin
- PA1001** **Impacts of the COVID-19 Pandemic on Smoking Cessation Success**  
Muzaffer Onur Turan (Izmir, Turkey), Pakize Ayşe Turan
- PA1002** **Effect of five years heated tobacco products use on health-Comparison with smoking cessation**  
Shin-ichi Hagiwara (Tochigi, Japan), Hiroo Wada
- PA1003** **Smoking Cessation in patients with severe mental illness**  
Adamadia Liapikou (Athens, Greece), Vasiliki Ntoumou

- PA1004** **Factors Associated with the Early Initiation of Smoking**  
Parakkal Sukumaran (Kottayam (Kerala), India), Thomas Beena, Joy Thomas, M Midhun, P Rekha, K P Venugopal, Ninan Mathew
- PA1005** **Telemedicine as a tool in the smoking cessation clinic – 154 cases in 2 years in the largest city in Latin America.**  
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Telma Cassia Santos Nery, Stella R Martins, Jefferson Benedito Pires Freitas, Gustavo Correa De Almeida, Rafael Futoshi Mizutani, Carlos Roberto Ribeiro Carvalho
- PA1007** **Changes in smoking behavior among healthcare professionals after COVID-19 pandemic**  
Yosr Aloulou (Manouba, Tunisia), Hana Blibech, Soumaya Debbiche, Houda Snene, Sameh Belhaj, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir
- PA1008** **Smoking among Tunisian medical professionals suffering from burnout syndrom during the COVID 19 pandemic.**  
Dorra Gharbi (Sfax, Tunisia), Rahma Gargouri, Nour Gargouri, Ahmed Dhia Elleuch, Sameh Msaad, Nedja Moussa, Samy Kammoun
- PA1009** **Predicting factors of the success of smoking cessation**  
Ahmed Dhia El Euch (Sfax, Tunisia), Takwa Bejaoui, Rahma Gargouri, Mariem Ayadi, Nesrine Kallel, Hajer Ayadi, Najla Bahloul, Samy Kammoun
- PA1010** **Use of obstructive airway medication in Denmark dependent of age – past and present.**  
Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christian Torp-Pedersen, Ulla Møller Weinreich

**PS-12 in poster area****Session 132****12:30 - 14:00****Poster session: Global burden and management of chronic obstructive pulmonary disease****Disease(s) :** [Airway diseases](#)**Method(s) :** Epidemiology General respiratory patient care Physiology Public health Pulmonary function testing**Tag(s) :** Clinical**Chairs :** Nagendra Chaudhary (Bhairahawa, Nepal), Yunus Çolak (Espergærde, Denmark)

- PA1011** **Prevalence and presentation of early stage of chronic obstructive pulmonary disease in China: a national cross-sectional study**  
Jieping Lei (Beijing, China), Ke Huang, Sinan Wu, Ting Yang, Chen Wang
- PA1012** **Correlation of COPD Assessment Test score and severity of disease in non-smoking COPD patients.**  
Ajay Kumar Verma (Lucknow (Uttar Pradesh), India), Anuj Kumar Pandey, Surya Kant, Arpita Singh, Jyoti Bajpai, Rakesh Kumar Dixit, Shaym Chand Chaudhary
- PA1013** **Pre-COPD in young adults and COPD later in life: A population-based cross-cohort comparison study**  
Yunus Çolak (Espergærde, Denmark), Peter Lange, Jørgen Vestbo, Børge G. Nordestgaard, Shoaib Afzal
- PA1014** **COPD exacerbations during and beyond the COVID-19 pandemic in the UK**  
Victoria Carter (Cambridge (Cambridgeshire), United Kingdom), Derek Skinner, Jeffrey Shi Kai Chan, Mehul Patel, Richard Hubbard, Himanshu Parikh, David Price
- PA1015** **Changes in COPD treatment in Brazil: Findings from the National Health Surveys**  
Gabriela Marques (Pelotas, Brazil), Andre F.S Amaral, Fernando C. Wehrmeister
- PA1016** **Characteristics and treatment patterns of COPD patients according to GOLD classification in the Philippines**  
Bernice Ong-dela Cruz (Quezon City, Philippines), Kenneth Alberca, Beatriz Tan-Helera, Dennis Teo, Violeta Reyes, Guinevere Agra, Celeste Mae Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, Roland Panaligan, Tim Trinidad
- PA1017** **Mortality and exacerbations in chronic obstructive pulmonary disease associated with *Stenotrophomonas maltophilia*. A regional cohort study of 22,689 outpatients.**  
Christian Philip Rønn (København Ø, Denmark), Peter Kamstrup, Josefin Eklöf, Louise Lindhart Toennesen, Jonas Bredtoft Boel, Christian Østergaard Andersen, Ram Benny Dessau, Jon Torgny Wilcke, Pradeesh Sivapalan, Charlotte Ulrik, Jens Ulrik Stæhr Jensen
- PA1018** **Characteristics of COPD patients on maintenance inhaled therapy in Hungary**  
Márta Kamocsai (Győr, Hungary), Balázs Sánta, Margit Bíró, Krisztina Vincze, Zsófia Lázár
- PA1019** **COPD-related mortality through different waves of the COVID-19 pandemic**  
Gabiella Guarneri (Padova (PD), Italy), Claudio Barbiellini Amidei, Veronica Casotto, Alessia Achille, Leonardo Bertagna De Marchi, Sara Lococo, Federico Lionello, Andrea Vianello, Ugo Fedeli
- PA1020** **Impact of stigma and inhaler counseling among geriatric asthma/COPD patients: a pilot study**  
Saqib Ahmed-Chowdhury (Chittagong, Bangladesh)

- PA1021 Dietary flavonoids and ventilatory function in adults from the multinational Burden of Obstructive Lung Disease (BOLD) Study**  
Mulubirhan Assefa Alemayohu (Mekelle, Ethiopia), Maria Elisabetta Zanolin, Lucia Cazzoletti, Karima El-Rhazi, Hasan Hafizi, Asaad Ahmed Nafees, Kirithi Gunasekera, Mahesh Padukudru Anand, Talant Sooronbayev, Peter Burney, Vanessa Garcia-Larsen
- 
- PA1022 Risk of mortality and cardiovascular events in patients with chronic obstructive pulmonary disease treated with azithromycin, roxithromycin, clarithromycin and amoxicillin**  
Imane Alispahic (Rødovre, Denmark), Josefin Eklof, Alexander Svorre Jordan, Pradeesh Sivapalan, Zitta Barrella Harboe, Jens-Ulrik Stæhr Jensen
- 
- PA1023 Real-world study of vaccine effectiveness decline against SARS-Cov-2 Delta variant in COPD patients**  
Lorinc Polivka (Úröm, Hungary), István Valyi-Nagy, Zoltán Szekanez, Krisztina Bogos, Hajnalka Vago, Anita Kamondi, Ferenc Fekete, Janos Szlavik, Gyorgy Surjan, Orsolya Surjan, Peter Nagy, Zsuzsa Schaff, Cecilia Muller, Zoltan Kiss, Miklos Kasler, Veronika Muller
- 
- PA1024 Anemia and proBNP levels as risk factors for airflow limitation in patients with acute coronary syndrome**  
Santiago Rodriguez-Segade Alonso (A Coruña, Spain), Irene Nieto Codesido, Carmen Diego Roza, Elvira Clavero Fernández
- 
- PA1025 Effect of smoking on the development of chronic obstructive pulmonary disease in young individuals: a nationwide cohort study**  
Chiwook Chung (Seoul, Republic of Korea), Kyu Na Lee, Kyungdo Han, Dong Wook Shin, Sei Won Lee
- 
- PA1026 Chronic obstructive pulmonary disease management by pulmonologists in private health care structures in Tizi-Ouzou city (Algeria): a cross-sectional survey.**  
Kahina Lanani (Tizi-Ouzou, Algeria), Imane Smaoun, Belaid Bouazza
- 
- PA1027 Risk of chronic lower respiratory disease prior to development of inflammatory bowel disease: A population-based cohort study**  
Ulla Møller Weinreich (Ålborg, Denmark), Henrik Albæk Jacobsen, Anastasia Karachalia Sandri, Tine Tine Jess, Lone Larsen
- 
- PA1028 Biomarkers of systemic inflammation are not associated with the risk of COPD exacerbations**  
Jens Ellingsen (Uppsala, Sweden), Kristina Bröms, Maria Hårdstedt, Marieann Högman, Christer Janson, Karin Lisspers, Andreas Palm, Björn Stållberg, Andrei Malinovski
- 
- PA1029 The economic and health burden of COPD in Western Europe: forecasting through 2050**  
Elroy Boers (Calgary, Canada), Angier Allen, Meredith Barrett, Adam Benjafield, Carlos Nunez, Jadwiga Wedzicha, Atul Malhotra
- 
- PA1030 The economic and health burden of COPD in the Middle East: forecasting through 2050**  
Elroy Boers (Calgary, Canada), Angier Allen, Meredith Barrett, Adam Benjafield, Carlos Nunez, Atul Malhotra, Jadwiga Wedzicha

**PS-13 in poster area Session 133 12:30 - 14:00**

**Poster session: Daily activity, exercise and others in chronic obstructive pulmonary disease and asthma**

**Disease(s) :** Respiratory critical care Airway diseases

**Method(s) :** Pulmonary rehabilitation Respiratory intensive care General respiratory patient care Imaging

**Tag(s) :** Clinical

**Chairs :** Elena Gimeno-Santos (Barcelona, Spain), Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

- PA1031 Are physical activity levels different between non-frail and pre-frail patients with COPD?**  
Sara Pimenta (Meirinhas, Portugal), Sofia Flora, Ana Alves, Nádia Hipólito, Ana Oliveira, Nuno Morais, Cândida G. Silva, Alda Marques, Dina Brooks, Chris Burtin, Filipa Januário, Fátima Rodrigues, Vitória Martins, Lilia Andrade, Joana Cruz
- 
- PA1032 Reproducibility of the six-minute walk test on a 20-meter course in patients with COPD**  
Jeannet Delbressine (Horn, Netherlands), Alex Van 'T Hul, Dennis Jensen, Pei Zhi Li, Jean Bourbeau, Wan C. Tan, Martijn Spruit, Anouk Vaes
- 
- PA1033 Fidelity and experience regarding an exercise training program in primary care for patients after an AECOPD**  
Marieke Wuyts (Laeken, Belgium), Fien Hermans, Sofie Breuls, Stephanie Everaerts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters

- PA1034 Diaphragmatic mobility assessed by ultrasound is associated with thoracoabdominal asynchrony in severe to very severe COPD patients**  
Juliana Melo Batista Santos (São Bernardo do Campo, Brazil), Estéfane C M Reis, Pedro L Lino, Adriana C Lunardi, Cibele C B M Silva, Thiago F Pinto, Regina M Carvalho-Pinto, Alberto Cukier, Maria C Chammas, Celso R F Carvalho
- PA1035 Usability of the OnTRACK platform to promote physical activity in COPD**  
Nádia Hipólito (Leiria, Portugal), Sofia Flora, Jessica Gordo, Diogo Pinto, Rúben Caceiro, Sara Pimenta, Fernando Silva, José Ribeiro, Marcelo Brites-Pereira, Nuno Morais, Cândida G. Silva, Ana Oliveira, Chris Burtin, Dina Brooks, Alda Marques, Joana Cruz
- PA1036 Experiences of interprofessional collaboration and the care delivery pathway for patients with COPD.**  
Sara Lundell (Umea, Sweden), Åsa Wikman, Gunilla Stenberg
- PA1037 Relationship between social support and COPD GOLD groups**  
Cíntia Dias (Aveiro, Portugal), Patrícia Rebelo, Guilherme Rodrigues, Ana Sofia Grave, Maria Aurora Mendes, Sara Almeida, Célia Freitas, Isabel Moreira, Cristiana Santos, Adriana Simões, Cláudia Rodrigues, Inês Amado, Alda Marques
- PA1038 Investigation of chest and neuropathic pain on disease severity in patients with COPD**  
aynur demirel (ankara, Turkey), Mustafa Celik, Melda Saglam, Naciye Vardar Yaglı, Lutfi Coplu
- PA1040 Automated oxygen titration at home for patients with COPD - a pilot study**  
Linette Marie Kofod (Jyllinge, Denmark), Ejvind Frausing Hansen, Barbara Brocki, Morten Tange Kristensen, Elisabeth Westerdahl
- PA1041 ANALYSIS OF VENTILATORY CHARACTERISTICS IN PATIENTS WITH COPD AND HOME MECHANICAL VENTILATION.**  
Adriana Martin Pascual (Tiana, Spain), Marina Galdeano Lozano, Carmen Fernandez, Ariadna Ning Morancho, Guillem Hernandez, Francesc López, Irene Aldàs, M Matute Villacis, Antoni Marin, Agnes Hernández, Ignasi Garcia, Jorge Abad
- PA1042 A Core Outcome Set for Pulmonary Rehabilitation of patients with COPD: a modified Delphi survey**  
Sara Souto-Miranda (Aveiro, Portugal), Isabel Saraiva, Martijn A. Spruit, Alda Marques
- PA1043 The use of Virtual Reality as a rehabilitational strategy in patients with COPD. Systematic Review**  
EIRINI PATSAKI (Keratsini, Greece), Vasiliki Avgeri, Theodora-Maria Rigoulia, Dimitris Tsimouris, Theodoros Zekis, Eirini Grammatopoulou
- PA1044 Feasibility of an animated video intervention post-acute exacerbation of COPD**  
Kriti Agarwal (Montreal, Canada), Matheus De Paiva Azevedo, Jean Bourbeau, Deborah Da Costa, Sarah Ahmed, Pauline Anderson, Tania Janaudis-Ferreira
- PA1045 Survey of Australian pulmonary rehabilitation health professionals: is exercise prescribed in line with clinical guidance?**  
Hayley Lewthwaite (Merewether, Australia), Emily R Cox, Gennaro D'Elia, Sarah Valkenborghs, Jennifer Mackney, Vanessa M McDonald
- PA1046 LungFlareCare: development and evaluation of a new web-based educational resource**  
Christian Osadnik (Melbourne, Australia), Alethea Kavanagh, Ruben Hopmans, Georgia Roberts, Chooi-Ee Lai, Jessica Degaris, Lauren Palmer, Amy Catlin, Marielle Collings, Rachel Smith, Carla Gordon
- PA1047 Perceptions and beliefs associated with enrolling in pulmonary rehabilitation**  
Ana Oliveira (Aveiro, Portugal), Anne-Marie Selzler, Cindy Ellerton, Dina Brooks, Roger Goldstein
- PA1048 Utility of respiratory impedance to evaluate the efficacy of pulmonary rehabilitation in people with chronic obstructive pulmonary disease**  
Simone Pancera (Milan, Italy), Marialaura Bertussi, Riccardo Buraschi, Luca Nicola Cesare Bianchi
- PA1049 Motivation to exercise and its relation to self-efficacy in adolescents with asthma: an observational study**  
Fernanda Lehrbaum (Londrina, Brazil), Joice Mara De Oliveira, Nathalia Ribeiro Berdu, Ana Beatriz Matos Bernardo, Cláudio Luiz Castro Gomes De Amorim, Simone Dal Corso, Fabio De Oliveira Pitta, Manuela Karloh, Karina Couto Furlanetto
- PA1050 Problematic activities of daily living in adult patients with asthma**  
Roy Meys (Horn, Netherlands), Frits Franssen, Nienke Nakken, Anouk Vaes, Daisy Janssen, Anouk Stoffels, Hieronymus Van Hees, Bram Van Den Borst, Chris Burtin, Martijn Spruit

PS-14 in poster area

Session 134

12:30 - 14:00

Poster session: Advances in the diagnosis of tuberculosis

**Disease(s) :** Airway diseases

**Method(s) :** General respiratory patient care Cell and molecular biology Imaging Public health Epidemiology Endoscopy and interventional pulmonology

**Tag(s) :** Clinical

**Chairs :** Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Delia Goletti (Roma (RM), Italy)

- PA1051 Ocular tuberculosis (OTB): typical and atypical phenotypes in a UK setting**  
Claudia Liang (London, United Kingdom), Osman Hatem, Kavina Manalan, Iaria Testi, Sethi Charanjit, Bhavini Dixit, Laura Martin, Meg Coleman, Carlos Pavesio, Harry Petrushkin, Rashmi Akshikar, Onn Min Kon
- 
- PA1052 Clinical and radiological predictors of tuberculous meningitis**  
Rebekah Young (London, United Kingdom), Erik Skyllberg, Akhilesh Sharma, Veronica White, Simon Tiberi, Susan Dart, Heinke Kunst
- 
- PA1053 Usage of Silver Nanoparticles to Restore Rifampicin Efficacy for Rifampicin-Resistant M.Tuberculosis Cultures**  
Nino Kiria (Tbilisi, Georgia), Teona Avaliani, Nino Bablishvili, Giorgi Phichkhaia, Nana Kiria
- 
- PA1054 Quantifying Myeloid-derived suppressor cells in pleural effusion can distinguish Tuberculosis from Pneumonia**  
Eun Sun Kim (Seoul, Republic of Korea), Je-In Youn
- 
- PA1055 Diagnostic accuracy of adenosine deaminase in GeneXpert positive tuberculosis pleural effusion.**  
Zulfiqar Ali Detho (Karachi, Pakistan), Faisal Faiyaz Zuberi
- 
- PA1056 Interleukin 32 as a Potential Marker for Diagnosis of Tuberculous Pleural Effusion**  
Juan Du (Beijing, China)
- 
- PA1057 Determinants of tuberculosis diagnosis delay**  
Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luis Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Paula Matilde, Natália André, Paula Raimundo, Teresa Falcão
- 
- PA1058 Isolated positivity of NAAT in bronchial aspirate - What entity?**  
Fernando Pereira da Silva (Vila Real, Portugal), Filipa Jesus, Joana Ribeiro, Sara Braga, Élin Almeida, Mariana Tavares, Madalena Reis, Filomena Luís, Luís Ferreira
- 
- PA1059 Cell-mediated immune responses against specific antigen for diagnosing pulmonary Mycobacterium avium complex disease stage**  
Yoshiro Yamashita (Nagasaki, Japan), Ikkoh Yasuda, Takeshi Tanaka, Toru Ikeda, Mayumi Terada, Masahiro Takaki, Yoshiko Tsuchihashi, Norichika Asoh, Sohkiichi Matsumoto, Konosuke Morimoto
- 
- PA1060 CyTOF analysis for differential immune cellular profiling between latent tuberculosis infection and active tuberculosis**  
Jaehye Lee (Daegu, Republic of Korea), Ji Eun Park
- 
- PA1061 Host factors associated with false negative results in an interferon- $\gamma$  release assay in adults with active tuberculosis: a single-center retrospective study**  
quanxian Liu (Chengdu, China), Jian-Qing He
- 
- PA1062 The error rate of phenotypic drug susceptibility tests in tuberculosis patients according to specimen type.**  
Hong-Joon Shin (Gwangju, Republic of Korea), Bo Gun Kho, Young-Ok Na, Jae-Kyeong Lee, Tae-Ok Kim
- 
- PA1063 Sensitivity and Specificity of screening and confirmatory tests to detect TB disease: a systematic review of reviews (RoR).**  
Dominik Zenner (London, United Kingdom), Tahreem Chaudry, Ibrahim Abubakar, Frank Cobelens
- 
- PA1064 Expression levels of maturation and activation markers in immune cells as a correlate of anti-tuberculosis therapy monitoring.**  
Irene Latorre Rueda (Badalona (Barcelona), Spain), Sergio Díaz Fernández, Zoran Stojanovic, Raquel Villar-Hernández, Marco Fernández, Maria Luiza De Souza-Galvão, Jorge Abad, María Ángeles Jiménez-Fuentes, Guillem Safont, Nadiia Tytarenko, Mariia Finohenova, Cristina Prat, Jose Dominguez
- 
- PA1065 Phenotypic susceptibility testing of pyrazinamide in lineage 1 M.tuberculosis isolates – a North London cohort experience**  
Santino Capocci (London, United Kingdom), Rebecca Duff, Ana Garcia Mingo, Stephen Morris-Jones
- 
- PA1066 Contribution of smear-negative pulmonary tuberculosis in interferon gamma releasing assay-confirmed nosocomial transmission**  
YA-JEN YANG (Taipei City, Taiwan), Jann-Yuan Wang, Chi-Tai Fang, Yee-Chun Chen



**PA1067 Implications of LTA4H Genetic Polymorphism on Pulmonary Tuberculosis (PTB) outcome – a Pilot Study**  
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), V R Sangeeth Priyadarshan, Deepa Shankar, Christhunesa Soundararajan Christudass, Kotamreddy Sreedevi, Barney Isaac, Balamugesh Thangakunam

**PA1068 High prevalence of isoniazid and fluoroquinolone resistance among rifampicin sensitive tuberculosis patients**  
Rashmi Ratnam (Lucknow, India), Parul Jain, Amita Jain, R A S Kushwaha

**PA1069 Latent tuberculosis infection screening in patients undergoing immunosuppressive treatment: a real-life experience in Milan**  
Gloria Leonardi (Trento, Italy), Sarah O'Donnell, Federica Piedepalumbo, Maurizio Ferrarese, Alice Repposi, Marco Mantero, Pierachille Santus, Francesco Blasi, Luigi Codecasa

**PS-15 in poster area****Session 135****12:30 - 14:00****Poster session: Bronchiectasis diagnostics and outcomes****Disease(s) :** **Airway diseases** Pulmonary vascular diseases**Method(s) :** Cell and molecular biology General respiratory patient care Pulmonary function testing Epidemiology Physiology Imaging Pulmonary rehabilitation**Tag(s) :** Clinical**Chairs :** Michael Loebinger (London, United Kingdom), Oriol Sibila Vidal (Barcelona, Spain)

**PA1070 Preliminary results from the “Genes encoding complex ciliopathies of bronchiectasis” GECCO study: An EMBARC project**  
Amelia Shoemark (Dundee (Angus), United Kingdom), Mahmoud Fassad, Lidia Perea, Erin Cant, Mathieu Bottier, Josje Altenburg, Anthony De-Soyza, Natalie Lorent, Michael R Loebinger, Felix C Ringshausen, Hannah M Mitchison, James D Chalmers

**PA1071 Convergent validity of the Bronchiectasis Impact Measure: data from the EMBARC-BRIDGE study**  
Megan Crichton (Dundee (Angus), United Kingdom), Arietta Spinou, Amelia Shoemark, Stefano Aliberti, Josje Altenburg, Francesco Blasi, Clare Clarke, Sanjay Chotirmall, Raja Dhar, Pieter Goeminne, Chalres Haworth, Michael Loebinger, Natalie Lorent, Eva Polverino, Felix Ringshausen, Michal Shteinberg, Oriol Sibila, Tobias Welte, James Chalmers

**PA1072 Muscle phenotypic features in the vastus lateralis of patients with bronchiectasis**  
Adriana Núñez Robainas (Barcelona, Spain), Mariela Nieves Alvarado Miranda, María Perez-Peiró, Esther Barreiro

**PA1073 Multiple-breath washout is more sensitive than spirometry to detect lung function impairment in children and adults with bronchiectasis**  
Niklas Ziegahn (Berlin, Germany), Mirjam Stahl, Stephanie Thee, Mehrak Yoosefi Moridani, Styliani Zagkla, Louise Tröltzsch, Charlotte O. Pioch, Christine Allomba, Leonie M. Busack, Apolline Tosolini, Bent R. Fuhlrott, Marcus A. Mall, Jobst F. Röhmel

**PA1074 The spectrum of structural lung changes in bronchiectasis: Analysis of 524 EMBARC CTs.**  
Harm Tiddens (Rotterdam, Netherlands), Angelina Pieters, Tjeerd Van Der Veer, Eleni-Rosalina Andrinopoulou, Jennifer J Meerburg, Menno M Van Der Eerden, Pierluigi Ciet, Stefano Alibert, Pierre-Regis Burgel, Megan L Crichton, Pieter C Goeminne, Michal Shteinberg, Francesco Blasi, Michael R Loebinger, Charles S Haworth, Daan Caudri, James D Chalmers

**PA1075 Telomere length in patients with bronchiectasis**  
Lidia Perea (Barcelona, Spain), Sandra Casas, Estrella Caballeria, Belén Solarat, Tamara Garcia, Núria Mendoza, Pilar Martínez-Olondris, Patricia Chang-Macchiu, Alvar Agustí, Amelia Shoemark, James D Chalmers, Rosa Faner, Oriol Sibila

**PA1076 Association of blood total immunoglobulin E and eosinophils with radiological features of bronchiectasis**  
Yongchang Sun (Beijing, China), Jiaqi Ren, Ai Chen, Jun Wang, Chun Chang, Juan Wang, Lina Sun

**PA1077 Relationship between sputum concentration and airway inflammatory markers in adults with stable bronchiectasis**  
Beatriz Herrero Cortina (Zaragoza, Spain), Victoria Alcaraz-Serrano, Hector Sanz-Fraile, Juan Antonio Sáez-Pérez, Lidia Perea-Soriano, Rosa Faner-Canet, Oriol Sibila-Vidal

**PA1078 Upper and lower limb muscle dysfunction in patients with bronchiectasis: the role of systemic inflammation and oxidative stress**  
Adriana Núñez Robainas (Barcelona, Spain), Mariela Nieves Alvarado Miranda, Maria Pérez Peiró, Esther Barreiro

**PA1079 Bronchiectasis are associated with lower lung function in lung cancer screening participants**  
A. K. A. L. Kwee (Utrecht, Netherlands), B. Luijk, Pim A. De Jong, R. Vliegenthart, Harry J. M. Groen, Joachim G. J. V. Aerts, Firdaus A. A. Mohamed Hoesin

**PA1080 Clinical outcome prediction by HRCT and Echocardiography Assessment of Pulmonary Hypertension in Patients with Bronchiectasis**  
Ina Jeong (Seoul, Republic of Korea), Inhan Lee, Jieun Kim, Joon-Sung Joh, Ji Yeon Lee, Joohae Kim, Sooin Sin

- PA1081** **Assessment of malnutrition with L1- skeletal muscle mass in non-cystic fibrosis bronchiectasis patients and the effects on exacerbation**  
Dilara Ömer Topçu (Bursa, Turkey), Aslı Görek Dilektaşlı, Esra Kunt Uzaslan, Nevzat Uslu, Mehmet Karadağ
- PA1082** **Assessment of the Non-Cystic Fibrosis Bronchiectasis Severity: the Bronchiectasis Severity Index**  
Houda Rouis (Ariana, Tunisia), Safa belkhir, Chirine Moussa, Mahdi Abdennadher, Faten Mhiri, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
- PA1083** **Nutritional status in non-cystic fibrosis bronchiectasis**  
Dilara Ömer Topçu (Bursa, Turkey), Aslı Görek Dilektaşlı, Esra Kunt Uzaslan, Mehmet Karadağ
- PA1084** **Association between the lung microbiome and severity scores in bronchiectasis**  
Leticia Bueno Freire (Barcelona, Spain), Rubén López-Aladid, Patricia Oscanoa, Victoria Alcaraz-Serrano, Nil Vázquez, Andrea Palomeque, Roberto Cabrera, Rosanel Amaro, Laia Fernández-Barat\*, Antoni Torres\*
- PA1085** **The usefulness of impulse oscillometry for predicting the severity of bronchiectasis**  
Ji Soo Choi (Seoul, Republic of Korea), Seok Jae Heo, Se Hyun Kwak, Min Chul Kim, Chang Hwan Seol, Sung Ryeol Kim, Eun Hye Lee
- PA1086** **The relationship between chest CT scoring, aetiology and severity of disease in Bronchiectasis: an EMBARC analysis**  
Daan Caudri (Rotterdam, Netherlands), Angelina Pieters, Tjeerd Van Der Veer, Jennifer M Meerburg, Eleni-Rosalina Andrinopoulou, Menno M Van Der Eerden, Pierluigi Ciet, Megan L Crichton, Stefano Aliberti, Pierre-Regis Burgel, Pieter C Goeminne, Charles S Haworth, Michael R Loebinger, Michal Shteinberg, Francesco Blasi, Harm Awm Tiddens, James D Chalmers
- PA1087** **Variation in clinical characteristics of bronchiectasis according to lung function: an observational study from a lower middle income country**  
Muhammad Irfan (Karachi (Sindh), Pakistan), Amna Irfan Ansari, Muhammad Tayyab Ihsan, Shayan Shahid, Akbar Shoukat Ali
- PA1088** **Correlation between high resolution computed tomography (HRCT) score and spirometry indices in patients with stable bronchiectasis - A cross sectional study**  
Soumya Das (Kolkata (West Bengal), India), Amit Kushwaha, Santanu Ghosh
- PA1089** **Sarcopenia incidence and implications in bronchiectasis**  
Umberto Semenzato (PADOVA, Italy), Mariaenrica Tine, Chiara Contin, Andrea Rastelli, Virginia Santello, Rossella Valvason, Marta Zuffellato, Giulia Fichera, Alessandro Miceli, Chiara Giraud, Andrea Sattin, Anna Maria Cattelan, Marina Saetta

**PS-16 in poster area****Session 136****12:30 - 14:00****Poster session: Basic science of respiratory infection****Disease(s)** : **Airway diseases** **Interstitial lung diseases** **Respiratory critical care****Method(s)** : Cell and molecular biology Physiology General respiratory patient care**Tag(s)** : Basic science, Translational**Chairs** : James D. Chalmers (Dundee (Angus), United Kingdom), Anne M. van der Does (Leiden, Netherlands)

- PA1092** **The in vivo antiviral efficacy of a novel inhalation drug candidate in a mouse treatment and post-exposure prophylaxis model**  
Jinglin Zhou (Copenhagen, Denmark), Elin Jørgensen, Jan Pravsgaard Christensen, Marianne Thuy Duong Le, Christopher Burton, Thomas Bjarnsholt
- PA1093** **Antimicrobial mitochondrial reactive oxygen species induction by lung epithelial metabolic reprogramming**  
Scott Evans (Houston, United States), Yongxing Wang, Vikram Kulkarni, Jezreel Pantaleón García, David Goldblatt, Jichao Chen, Philip Lorenzi, Hao Wang, Lee-Jun Wong, Michael Tuvim
- PA1094** **LSC - 2023 - APC: T cell interactions in the lung: exploring the generation and phenotype of memory CD4 T cells during influenza virus infection**  
Kerrie Hargrave (Glasgow, United Kingdom), Julie Worrell, Euan Brennan, Thomas Purnell, Megan Macleod
- PA1096** **Engineered live bacteria as a new therapy for P. aeruginosa biofilms in ventilator-associated pneumonia**  
Alba Soler-Comas (Barcelona, Spain), Laia Fernández-Barat, Rubén López-Aladid, Nil Vázquez-Burgos, Anna Motos, Irene Rodríguez Arce, Alicia Broto, Roberto Cabrera, Kasra Kiarostami, Flavia Galli, Blanca Llonch, Carolina Segura, Luis Serrano, Antoni Torres
- PA1097** **Peripheral blood gene expression changes at exacerbation of COPD: an observational cohort study**  
Holly R. Keir (Dundee (Angus), United Kingdom), Merete B. Long, Chloe Hughes, Amy Gilmour, Yan Hui Giam, Thomas Pembroke, Lilia Delgado, Rebecca Hull, James D. Chalmers

- PA1098** **Deciphering the role of pulmonary  $\alpha$ -(1,2)-fucosylation in pneumococcal pneumonia**  
Cengiz Goekeri (Berlin, Germany), Alina Nettesheim, Kerstin Linke, Sebastian Schickinger, Ulrike Behrendt, Denise Barthel, Peter Pennitz, Elena Lopez-Rodriguez, Vladimir Gluhovic, Konrad Schmidt, Leila Bechtella, Anne Voß, Sandra Kunder, Kevin Pagel, Achim D. Gruber, Sarah Hedtrich, Matthias Ochs, Martin Witzernath, Geraldine Nouailles
- PA1099** **In vitro identification of essential genes of carbapenems resistant OprD mutant *Pseudomonas aeruginosa***  
Cléopée VAN MAELE (Reims, France), Ségolène Caboche, Thomas Blanchot, Audrey Brisebarre, Christophe Audebert, Anaëlle Muggeo, Thomas Guillard
- PA1100** **Immunoinformatics investigation of B- and T- cell epitopes in the VP2 protein of the BOCA respiratory virus**  
Erasmia Rouka (Larissa, Greece), Kerasia Goupou, Sotirios Zarogiannis
- PA1101** **Palmitoleic acid suppresses *Pseudomonas aeruginosa* quorum sensing-controlled virulence and relieves infection-induced lung injury**  
lei han (Shanghai, China), Yishu Xue, Jianwei Gao, Qiang Fu, Ping Shao, Min Zhang, Fengming Ding
- PA1102** **Whole transcriptome profile underlies the COVID-19 bimodal phenotypes**  
Sabrina Setembre Batah (Ribeirão Preto, Brazil), Heloisa Zimmermann, Maria Júlia Marco, João Paulo Almeida, Danilo Wada, Amanda Schnepfer, Robson Carvalho, Alexandre Fabro
- PA1103** **In silico investigation of B- and T-cell epitopes in the M2 protein of the H5N6 influenza virus**  
Erasmia Rouka (Larissa, Greece), Sotirios Kampouris, Sotirios Zarogiannis
- PA1104** **Sand Particles Increase Pneumococcal Adhesion to Respiratory cells in vitro**  
Lisa Miyashita (London, United Kingdom), Beverley Coldwell, David Wertheim, Ian Gill, Simon Crust, Nemesio M. Pérez, Nick Petford, Jonathan Grigg
- PA1105** **Profiling the immune response in patients hospitalised with lower respiratory tract infection**  
Merete Bridget Long (Dundee, United Kingdom), Holly R Keir, Yan Hui Giam, Thomas Pembridge, Rebecca C Hull, Lilia Delgado, Amy Gilmour, Chloe Hughes, Hollian Richardson, James D Chalmers
- PA1106** **The plasmidome in bronchiectasis**  
Kai Xian Thng (Tampines, Singapore), Micheál Mac Aogáin, Fransiskus Xaverius Ivan, Jayanth Kumar Narayana, Tavleen K. Jaggi, Holly R. Keir, Mariko Siyue Koh, Thun How Ong, Mau Ern Poh, Teck Boon Low, John A. Abisheganaden, Francesco Blasi, Stefano Aliberti, James D. Chalmers, Sanjay H. Chotirmall
- PA1107** **Late Breaking Abstract - MV130, a Trained Immunity-based Vaccine, in the prevention of RRTIs in adults: A retrospective study**  
Laura Conejero Hall (Madrid, Spain), Karla Montalbán, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, José Luis Subiza
- PA1108** **Late Breaking Abstract - An exploratory study highlighting the use of night-time cough frequency as a potential marker of disease surveillance in patients with Primary ciliary dyskinesia and Cystic fibrosis.**  
Evie Robson (Leeds, United Kingdom), Surinder Biring, Richard Feltbower, Christopher O'Callaghan, Daniel Peckham
- PA1109** **Late Breaking Abstract - The clinical application value of a novel chip in the detection of pathogens in adult pneumonia: a multi-center prospective study in China**  
Ruixue Zhang (Beijing, China), Yingying Liu, Lianjun Lin

PS-17 in poster area

Session 137

12:30 - 14:00

Poster session: Screening, patient pathways and quality of life in the lung cancer world

Disease(s) : Thoracic oncology Airway diseases

Method(s) : Epidemiology Imaging Pulmonary function testing General respiratory patient care Public health Surgery Palliative care

Tag(s) : Clinical

Chairs : Wouter H. van Geffen (Leeuwarden, Netherlands), Andriani Charpidou (Athens, Greece)

- PA1110** **Assessing lung cancer risk in young and elderly patients in a lung cancer screening programme**  
Aranzazu Campo Ezquibela (Pamplona (Navarra), Spain), Begoña Ortiz, Ana Belén Alcaide, Juan Berto, Teresa Pérez-Warnisher, Carmen Felgueroso, Jesus Pueyo, Marimar Ocon, Juan Pablo De Torres, Gorka Bastarrika, Luis Seijo
- PA1111** **Prevalence of recent thoracic CT imaging in a population undergoing lung cancer screening**  
Tanya Patrick (London, United Kingdom), Sindhu Bhaarrati Naidu, Amyn Bhamani, Paul Robinson, Lauren Molyneux, Thea Buchan, Jeannie Eng, Fanta Bojang, Shivani Patel, Ricky Thakrar, Neal Navani, Arjun Nair, Sam Janes

- PA1112 Use of telehealth to improve lung cancer screening program delivery of results**  
Ludmila Pereira Barbosa Dos Santos (Barretos (SP), Brazil), Fabiana Lima Vazquez, Leticia Ferro Leal, José Elias Miziara, Maurício Wagner Souto Ferraz, Sérgio Vicente Serrano, Carolina Lourenço Da Conceição, Bianca De Bortoli Petiquer Capucho, Rodrigo Sampaio Chiarantano, Rui Manuel Vieira Reis, Giovanna Maria Stanfoca Casagrande
- 
- PA1113 Smoking cessation integrated with a lung cancer screening program: most effective method?**  
Anna Núñez (Barcelona, Spain), Sonia Baeza, Ester Cervera, Laura Rodriguez, Adela Gonzalez, Ignasi García Olivé, Roxana Chirinos, Felipe Andreo, Antoni Rosell
- 
- PA1114 Volumetric tumor volume doubling time in lung cancer: a systematic review and meta-analysis**  
Beibei Jiang (Groningen, Netherlands), Daiwei Han, Marjolein Heuvelmans, Carlijn Van Der Aalst, Harry De Koning, Matthijs Oudkerk
- 
- PA1115 Effectiveness of the screening review MDT(SRMDT) of a pilot national targeted lung health check (TLHC) cancer screening programme in England**  
Ailsa Holbourn (Doncaster, United Kingdom), Abdul Nasimudeen, Jason Page, Ante Marusic, Sue Matthews, Moe Kyi
- 
- PA1116 Results and challenges of lung cancer screening in Serbia**  
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Tomi Kovacevic, Bojan Zaric, Darijo Bokan, Dragan Dragišić, Goran Stojanović
- 
- PA1117 Integrated lung Cancer Screening program employing a mobile unit in Brazil**  
Leticia Ferro Leal (Barretos, Brazil), Rodrigo Chiarantano, Fabiana Vazquez, Ludmila Barbosa Pereira Dos Santos, José Elias Miziara, Edmundo Mauad, Maurício Souto Ferraz, Rui Manuel Reis
- 
- PA1118 Have lung cancer patients been missed from the cancer screening programme?**  
Kiran Nandakumar (ROTHERHAM, United Kingdom), Abdul Nasimudeen, Jason Page, Sue Matthews, Moe Kyi
- 
- PA1119 Eligibility for lung cancer screening in Greece: a retrospective study**  
Andriani Charpidou (Athens, Greece), Emmanouil Panagiotou, Mirsini Livanou, Anastasia Karachaliou, Ioannis Gkiozos, Eleni Kokkotou, Maria Mani, Lamprini Stournara, Sofia Tsagouli, Ioannis Vathiotis
- 
- PA1120 Psychosocial consequences of lung cancer screening; early results from the Australian International Lung Screen Trial (ILST) cohort.**  
Asha Bonney (Melbourne, Australia), John Brodersen, Volkert Siersma, Katharine See, Kwun Fong, Stephen Lam, Daniel Steinfors, Henry Marshall, Louis Irving, Jiashi Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette McWilliams, Emily Stone, Renee Manser
- 
- PA1121 Psychosocial consequences of lung cancer screening; validation of an Australian English translation of a lung cancer-specific questionnaire.**  
Asha Bonney (Melbourne, Australia), John Brodersen, Volkert Siersma, Katharine See, Kwun Fong, Stephen Lam, Daniel Steinfors, Henry Marshall, Louis Irving, Jiashi Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette McWilliams, Emily Stone, Renee Manser
- 
- PA1122 Outcome after curative treatment of patients diagnosed with clinical stage I lung cancer in the Yorkshire Lung Screening Trial**  
Hannah R Bailey (Leeds, United Kingdom), Philip A J Crosbie, Michael Darby, Kevin N Franks, Rhian Gabe, Martyn P T Kennedy, Hui Zhen Tam, Alessandro Brunelli, Matthew E J Callister
- 
- PA1123 Is the local implementation of NOLCP 72 hour access to CT scan reducing delays in the lung cancer pathway?**  
Bethany Jones (Bedfordshire, United Kingdom), Lukas Kalinke, Nick Adams
- 
- PA1124 The effect of delays on survival patients with lung cancer**  
Amani Kacem (Sousse, Tunisia), Jihene Ghariani, Imen Kharrat, Anis Maatallah, Rahma Benjazia, Yosri Benali, Hend Zorgati, Sourour Belhajjoussef, Jihene Ayachi, Asma Gaddour
- 
- PA1125 Route to Diagnosis in Danish Lung Cancer Patients**  
Anja Gouliaev (Viby J, Denmark), Niels Lyhne Christensen, Torben Riis Rasmussen
- 
- PA1126 Outcomes of patients who receive systemic therapy for metastatic lung cancer after diagnosis via emergency presentation**  
Rachel Solomons (London, United Kingdom), Neena Patel, Ketan Patel, Adam Januszewski
- 
- PA1127 How does lung cancer progression impair quality-life of caregivers**  
Ahmed Dhia El Euch (Sfax, Tunisia), Rahma Gargouri, Nour Kallel, Olfa Bouaziz, Nessrine Kallel, Ilhem Yangui, Walid Feki, Samy Kammoun
- 
- PA1128 Association between quality of life questionnaire at diagnosis and survival in patients with lung cancer**  
Sukjin Bae (Seoul, Republic of Korea), Chang Dong Yeo

**PA1129 Long-Term Lung Cancer Survivors – Who are they and how is their quality of life?**  
Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Mariana Antunes, Margarida Dias, Eloísa Silva, Ana Barroso

**PS-18 in poster area Session 138 12:30 - 14:00**

**Poster session: Biomarkers in interstitial lung disease**

**Disease(s) :** [Interstitial lung diseases](#) [Airway diseases](#)

**Method(s) :** Epidemiology Imaging Physiology Public health Pulmonary function testing General respiratory patient care Cell and molecular biology

**Tag(s) :** Translational

**Chairs :** Manuela Funke-Chambour (Bern, Switzerland), Stéphane Jouneau (Rennes Cedex, France)

**PA1130 Two CT image-based Biomarkers for Predicting Progression in fibrosing interstitial lung diseases**  
Ju hyun Oh (Seoul, Republic of Korea), Grace Hyun J. Kim, S. Samuel Weigt, Jared D Wilkinson, Fereidoun Abtin, Lila Pourzand, Bianca Villegas, Jihey Lee, Kyungjong Lee, Jonathan Goldin, Jin Woo Song

**PA1131 CT-derived biomarkers as predictors of overall survival in patients with idiopathic pulmonary fibrosis (IPF)**  
Francesco Bonella (Düsseldorf, Germany), Luca Salhöfer, Mathias Meetschen, Lale Umutlu, Michael Forsting, Benedikt Schaarschmidt, Marcel Opitz, Rene Hosch, Sven Koitka, Vicky Parmar, Felix Nensa, Johannes Haubold

**PA1132 Prognostic value of circulating biomarkers in patients with progressive pulmonary fibrosis**  
Francesco Bonella (Düsseldorf, Germany), R Gisli Jenkins, Toby M Maher, Shervin Assassi, Imre Noth, Claudia Diefenbach, Carina Itrich, Klaus B Rohr, Martin Kolb

**PA1133 A combined measure of blood leukocytes, FVC and quantitative CT is highly predictive of mortality in idiopathic pulmonary fibrosis (IPF)**  
Andrew Achaiah (Oxford, United Kingdom), Emily Fraser, Peter Saunders, Rachel Hoyles, Rachel Benamore, Ling-Pei Ho

**PA1134 Longitudinal changes in CT quantified pulmonary artery volume and interstitial abnormalities correlate with pulmonary function decline in IPF patients**  
Anne-Noëlle Frix (Liege, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Renaud Louis, Jonne Engelberts, Jean-Paul Charbonnier, Julien Guiot

**PA1135 Blood gene expression is associated with decline in lung function in interstitial lung disease**  
Daniel He (Vancouver, Canada), Boyang Zheng, Scott J Tebbutt, Christopher J Ryerson

**PA1136 Associations between neutrophil and lymphocyte counts and ILD progression in subjects with progressive fibrosing ILDs**  
Michael Kreuter (Heidelberg, Germany), Justin M Oldham, Claudia Valenzuela, Takafumi Suda, Heiko Müller, Kamila Sroka-Saidi, Toby M Maher

**PA1137 Differential blood count as a prognostic tool in interstitial lung diseases**  
Nimrod Orr Urtreger (Tel Aviv, Israel), Ophir Freund, Tzvil Hershko, Liran Levy, Amir Bar-Shai, Avraham Unterman

**PA1138 Clinical utility of heparin-binding protein as an acute-phase inflammatory marker in interstitial lung disease**  
Xue Mingshan (Guangzhou, China), Teng Zhang, Runpei Lin, Yifeng Zeng, Zhangkai Jason Cheng, Ning Li, Peiyan Zheng, Huimin Huang, Baoqing Sun

**PA1139 Increasing CRPM levels following antifibrotic therapy in IPF is associated with adverse outcomes with nintedanib, but not pirfenidone**  
Jannik Ruwisch (Hannover, Germany), Francesco Bonella, Jannie Marie Bülow Sand, Henrik Jessen, Diana Julie Leeming, Tobias Welte, Antje Prasse, Benjamin Seeliger

**PA1140 Osteopontin as a biomarker in interstitial lung diseases**  
David Iturbe Fernández (Santander (Cantabria), Spain), Verónica Pulito Cueto, Víctor Manuel Mora Cuesta, Sara Remuzgo Martínez, Diego José Ferrer Pargada, José Manuel Cifrián Martínez, Raquel López Mejías, Fernanda Genre, Sandra Tello Mena, María Sebastián Mora-Gil, Sheila Izquierdo Cuervo, Miguel Angel González-Gay Mantecón

**PA1141 Exploring the Potential of Serum Periostin as a Predictive biomarker for Early-Onset Idiopathic Pulmonary Fibrosis: A Follow-Up Study**  
Mingtao Liu (Guangzhou, China), Zhangkai J. Cheng, Haiyang Li, Runpei Lin, Mingshan Xue, Yanjun Li, Jiixin Wang, Chenwei You, Haisheng Hu, Baojun Guo, Huimin Huang, Baoqing Sun

**PA1142 Lipid metabolism in interstitial lung diseases: serum amyloid A a new potential biomarker in idiopathic pulmonary fibrosis**  
Lucia Vietri (Ferrara, Italy), Miriana D'Alessandro, Laura Bergantini, Paolo Cameli, Elena Bargagli

- PA1143 Lactate dehydrogenase predicts disease progression in patients with IPF**  
Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lene Collatz, Emilia Cassandra Achilles Åttingsberg, Saher Burhan Shaker
- PA1144 Circulating prostatic acid phosphatase (PSA) associates with presence and severity of idiopathic pulmonary fibrosis (IPF)**  
Jamie Todd (Durham, United States), Hillary Mulder, Megan L Neely, John A Belperio, Joseph A Lasky, Tracy R Luckhardt, Scott M Palmer, Christian Hesslinger, Thomas Schlange, Thomas B Leonard
- PA1145 Serum Krebs von den Lungen-6 (KL-6) level as a prognostic biomarker in patients with interstitial lung abnormalities (ILA)**  
Hye Kyeong Park (Goyang-Si, Republic of Korea), Young-Soon Yoon, Jae-Uk Song, Hyung Koo Kang
- PA1146 Circulating biomarkers in children and adolescents with fibrosing interstitial lung disease (ILD)**  
Robin Deterding (Aurora, United States), Kevin K Brown, Steven Cunningham, Emily M Deboer, Matthias Griese, Nicolaus Schwerk, Lisa R Young, Carina Ittrich, Thomas Schlange, Martina Gahlemann, David Warburton
- PA1147 Machine learning-based identification of RNA and protein biomarkers predictive of disease progression or death in the IPF-PRO Registry**  
Kolja Becker (Biberach, Germany), Julia Soellner, Thomas Schlange, Christian Hesslinger, Richard Vinisko, Thomas B Leonard, Jamie L Todd, Megan L Neely, Ramona Schmid
- PA1148 Predicting factors of acute exacerbation of idiopathic pulmonary fibrosis**  
Morgane Browarski (Rennes, France), Chloe Rousseau, Pierre Chauvin, Stéphanie Guillot, Mathieu Lederlin, Mallorie Kerjouan, Stéphane Jouneau
- PA1149 Histological and molecular characterization of lung cancer (LC) in patients with and without interstitial lung disease (ILD)**  
Gioele Castelli (Padova, Italy), Matteo Scordari, Nicol Bernardinello, Elisabetta Cocconcelli, Mariaenrica Tinè, Giulia Grisostomi, Serena Bellani, Fiorella Calabrese, Paolo Spagnolo, Elisabetta Balestro

## PS-19 in poster area

## Session 139

12:30 - 14:00

## Poster session: Novel insights in the pathogenesis of interstitial lung disease

Disease(s) : [Interstitial lung diseases](#)

Method(s) : General respiratory patient care Cell and molecular biology Endoscopy and interventional pulmonology Epidemiology Imaging Physiology Pulmonary function testing

Tag(s) : Clinical, Translational

Chairs : Paolo Cameli (Siena (SI), Italy), Tiago Alfaro (Coimbra, Portugal)

- PA1150 Hypersensitivity Pneumonitis associated to foam pillows and mattresses - mold analysis**  
Onofre Moran Mendoza (Kingston (ON), Canada), Gurmohan Dhillon, Alexander Boag
- PA1151 Systemic inflammatory indices in silicosis due to occupational exposure to silica agglomerates (SA).**  
Alfonso Marin Andreu (San Fernando, Spain), Antonio León Jiménez, Gema Jiménez-Gómez, Raquel De Andrés David, Antonio Hidalgo Molina, Antonio Campos Caro
- PA1152 Capelozzi's necrosis is a novel histological biomarker for the diagnosis of chronic microaspiration in fibrosing interstitial lung diseases**  
Alexandre Todorovic Fabro (Ribeirão Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimermam, Maria Júlia Faci Do Marco, Mateus Magalhães Lage Moraes, Wagner Moneda Telini, Adriana Paes Leme, Romenia Ramos Domingues, Robson Francisco Carvalho, Amanda Piveta Schnepper, Andrea Antunes Cetlin, Danilo Tadao Wada, Marcel Koenigkam Santos, Tales Rubens Nadai, José Antônio Baddini-Martinez, Vera Luiza Capelozzi
- PA1153 Pathology and radiology of interstitial lung disease in patients with telomere-related genes mutations**  
Alice Guyard (Paris, France), Augustin Gaudemer, Caroline Kannengiesser, Ibrahim Ba, Pierre Mordant, Bruno Crestani, Hervé Mal, Raphaël Borie, Pierre Le Guen, Marie-Pierre Debray, Aurélie Cazes
- PA1154 Dendritic cells profile is related to differential diagnosis in airway-centered interstitial fibrosis**  
Mateus Magalhães Lage Moraes (RIBEIRÃO PRETO, Brazil), Wagner Moneda Telini, Sabrina Setembre Batah, Maria Julia Faci Do Marco, Heloisa Acurcio Zimermam, Danilo Tadao Wada, Andrea De Cássia Vernier Antunes Cetlin, Marcel Koenigkam Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro
- PA1155 Serum metalloproteinase 7 as a biomarker of progressive pulmonary fibrosis**  
Márcia Araújo (Porto (Porto), Portugal), Marília Beltrão, Oksana Sokhatska, Natalia Melo, Patricia Caetano Mota, Helder Novais Bastos, André Terras, Luís Delgado, António Morais
- PA1156 The neutrophil to lymphocyte ratio in broncho-alveolar lavage in hypersensitivity pneumonitis: preliminary results**  
Marius-Alexandru Coteț (Bucuresti, Romania), Andreea Maftci (Mutu), Ionela Belaconi, Ștefan Dumitrache-Rujinski, Claudia Lucia Toma, Marina Ruxandra Oțelea

- PA1157** **Peripheral immune cell profiling reveals distinct immune hallmarks in progressive pulmonary fibrosis**  
Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recasens, Tamara Cruz, Nuria Albarca, Gemma Lopez Saiz, Xavier Alsina, Mauricio Rojas, Alvar Agusti, Rosa Faner, Jacobo Sellares
- PA1158** **Enhancing the Detection of Interstitial Pneumonia with Autoimmune Features and Idiopathic Pulmonary Fibrosis through the Harmony of Matrix Metalloproteinases and Clinical Diagnosis**  
Mingtao Liu (Guangzhou, China), Zhangkai J. Cheng, Haiyang Li, Zhiman Liang, Huimin Huang, Baoqing Sun
- PA1159** **The remodeling of hemomicrocirculatory bed of the lungs in induced systemic sclerosis**  
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn
- PA1160** **Evaluation of pro-inflammatory proteins and joint disease activity in individuals with interstitial lung disease associated with rheumatoid arthritis.**  
Karol Jazmin Nava Quiroz (México, Mexico), Jorge Rojas-Serrano, Espiridión Ramos-Martínez, Mayra Mejía, Gloria Pérez-Rubio, Ivette Buendía-Roldán, Pedro Rodríguez-Henríquez, Ramcés Falfán-Valencia
- PA1161** **Pulmonary Silicosis due to different sources of exposure. Clinical Features**  
Denisse Paulette Mediavilla Angulo (Barcelona, Spain), Galo David Granados Rosales, Cristina Aljama Vizcarra, Julia Sampol Sirvent, Iñigo Ojanguren Arranz, Xavier Muñoz Gall, Cristina Berastegui Garcia, Ana Villar Gomez, Jaume Ferrer Sancho
- PA1162** **Novel lipid mediators in pulmonary fibrosis.**  
Marissa O'Callaghan (County Cork, Ireland), Amina Jouida, Elizabeth J Tarling, Aurelie Fabre, Elizabeth F Redente, James P. Bridges, Michael P. Keane, Cormac McCarthy
- PA1163** **Smoking and hypersensitivity pneumonitis: a single Institution retrospective analysis**  
Francesco Bertuccio (Pavia, Italy), Nicola Baio, Vittorio Chino, Valentina Ferroni, Simone Montini, Valerio Partenope, Lucrezia Pisanu, Vincenzo Sanci, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico, Giulia Maria Stella
- PA1164** **Monocyte/macrophage axis as potential drivers of Progressive Fibrosing Hypersensitivity Pneumonitis**  
Helder Novais Bastos (Lousada, Portugal), Ana Pinto, Filipa Aguiar, Catarina Cardoso, David Coelho, Vanessa Santos, André Terras Alexandre, Ana Luísa Fernandes, Natália Melo, Patrícia Mota, Inês Neves, Susana Guimarães, Conceição Souto Moura, José Miguel Jesus Pereira, André Carvalho, Luís Delgado, Oksana Sokhatska, Marília Beltrão, António Morais, Margarida Saraiva, Rita Santos
- PA1165** **Predictors of myositis-specific and myositis-associated antibodies among subjects with interstitial lung diseases**  
Ori Wand (Kfar Sava, Israel), Yair Levy, David Shitrit, Anna Breslavsky
- PA1166** **Anti-Ro-52 antibodies in interstitial lung disease associated with autoimmune disorders**  
Juan Ignacio Enghelmayer (Ciudad Autónoma Buenos Aires, Argentina), Anabella Rodriguez, Tamara Arias, María José Lopez Meiller, Marina Garcia Carrasco, María Pino, Cecilia Pisoni, Ana María Putruele, Gustavo Medina
- PA1167** **Interstitial pneumonia with autoimmune features (IPAF) and connective tissue disease-associated interstitial lung disease (CTD-ILD) – differences in parameters measured in bronchoalveolar lavage (BAL)**  
Ewa Miadlikowska (Łódź, Poland), Joanna Miłkowska-Dymanowska, Adam Jerzy Białas, Wojciech Jerzy Piotrowski
- PA1168** **Frequency and background of progressive fibrosing interstitial lung disease (PF-ILD) in patients with anti-aminoacyl tRNA synthetase (ARS) antibody-positive interstitial lung disease.**  
Takafumi Yamano (Kurashiki, Japan), Machiko Arita, Hiromasa Tachibana, Masamitsu Hamakawa, Ayaka Tanaka, Tadashi Ishida
- PA1169** **Prognostic value of autoantibodies in bronchoalveolar lavage in ILD patients**  
Karina Portillo Carroz (Badalona (Barcelona), Spain), Carmen Centeno-Clemente, Laura Rodriguez-Pons, Paloma Millan-Billi, Isabel Alfaya, Aina Teniente-Serra, Bibiana Quirant, Amalia Moreno, Pere Serra-Mitjà, Marian García-Nuñez, Eva Martínez-Cáceres, Antoni Rosell Gratacos, Iñaki Salvador-Corres

PS-2 in poster area

Session 140

12:30 - 14:00

Poster session: The lung after COVID-19: sequelae and functional recovery

Disease(s) : Respiratory critical care Airway diseases Pulmonary vascular diseases Interstitial lung diseases

Method(s) : General respiratory patient care Imaging Public health Physiology Pulmonary function testing Pulmonary rehabilitation Respiratory intensive care

Tag(s) : Clinical

Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany), Gergely H. Fodor (Szeged, Hungary)

- PA1170** **Mechanisms of impaired gas diffusion following hospitalisation for severe COVID-19 pneumonitis utilising nitric oxide**  
Leigh Seccombe (Sydney (NSW), Australia), David Heath, Claude Farah, James Di Michiel, Elizabeth Veitch, Matthew Peters

- PA1171 Characterisation of cardiopulmonary exercise tolerance in patients with COVID19 sequelae**  
Achim Grünewaldt (Darmstadt, Germany), Tara Azem, Carla Bellinghausen, Cornelius Lask, Christian Hügel, Alexander Seeger, Yascha Khodamoradi, Eva Herrmann, Maria Vehreschild, Gernot Rohde
- 
- PA1172 Oximetry at hospital admission as a predictor of persistence of tomographic and pulmonary functional impairment after 3-6 months in hospitalized patients with COVID-19.**  
Bruna Scharlack Vian (Campinas, Brazil), Pedro Maximink Esteves Villar, Paulo Roberto Araujo Mendes, Tatiana Alves Kiyota, Lígia Dos Santos Roceto Ratti, Laís Bacchin De Oliveira, Ana Lúcia Cavallaro Baraúna Lima, Hugo Dugolin Ceccato, Julian Furtado Silva, Wander De Oliveira Villalba, Lucieni De Oliveira Conterno, Mariângela Ribeiro Resende, Mônica Corso Pereira
- 
- PA1173 Long term respiratory effects of COVID-19 pneumonitis in patients underwent veno-venous extracorporeal membrane oxygenation**  
Alexandra Pálfi (Szeged, Hungary), Gabriella Polónyi, Ádám Balogh, Éva Zöllei, Péter Hankovszky, Anita Korsós, Zoltán Varga, Gábor Bari, Zsófia Csorba, László Rudas, Ferenc Peták, Barna Babik
- 
- PA1174 Association of Composite Physiologic Index with dyspnea, disability and submaximal exercise tolerance in COVID-19 survivors**  
Chaima BRIKI (ariana, Tunisia), Sirine Jamli, Khoulood Kchaou, Balsam Barkous, Saloua Ben Khamsa Jameleddine
- 
- PA1175 Correlation between Distance-Saturation Product and Composite Physiologic Index in COVID-19 survivors**  
Chaima BRIKI (ariana, Tunisia), Sirine Jamli, Khoulood Kchaou, Soumaya Khaldi, Balsam Barkous, Saloua Ben Khamsa Jameleddine
- 
- PA1176 Predictors of reduced 6-minute walk distance among critically ill COVID-19 survivors**  
Amani Kacem (Sousse, Tunisia), Dhouha Ben Braiek, Safa Ben Mansour, Yosri Ben Ali, Hend Zorgati, Haifa Sfar, Oussama Saadaoui, Rahma Ben Jazia, Anis Maatallah, Jihene Ayachi
- 
- PA1177 Pulmonary vascular volume distribution and oxygen saturation during exercise in patients with post-acute sequelae of COVID-19 (PASC)**  
Kris Ides (Antwerpen, Belgium), Wendel Dierckx, Yinka De Meyer, Erik Franck, Eline Lauwers, Ben Lavon, Jan De Backer, Bitá Hajian, Wilfried De Backer
- 
- PA1178 Exercise capacity in a cohort of patients with post-Covid-19 syndrome**  
Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Päivi Piirilä
- 
- PA1179 Gender differences in hospitalized COVID-19 patients: Focusing on markers of endothelial dysfunction and the survival rate**  
Audrey Borghi Silva (São Carlos (SP), Brazil), MURILO OLIVEIRA, Bianca Domingos, Guilherme Back, Cássia Goulart, Audrey Borghi-Silva
- 
- PA1180 Unexplained lung function differences in dyspnoeic non-hospitalised Long-COVID (NHLc) patients and asymptomatic fully recovered COVID-19 controls - the EXPLAIN study**  
Kher Ng (Oxford, United Kingdom), James Grist, Laura Saunders, Guilhem Collier, Avianna Laws, Gabriele Abu Eid, Nina Kainth, Scarlett Strickland, Lotta Gustafsson, Siby Thomas, Lily Dryhurst-Pearce, Laurie Smith, Violet Matthews, Kenneth Jacob, Jenny Rodgers, Amany Elbehairy, Samantha Jones, Helen Davies, Alexander Horsley, Roger Thompson, Emily Fraser, Jim Wild, Fergus Gleeson
- 
- PA1181 High fat mass is associated with non-recovery among females following COVID-19 hospitalisation**  
Hamish McAuley (Leicester, United Kingdom), Cara Flynn, George Mills, George Mills, Molly Baldwin, Charlotte E Bolton, Christopher E Brightling, Omer Elneima, Paul L Greenhaff, William D-C Man, Sally J Singh, Michael Steiner, Louise V Wain, Janet M Lord, Rachael A Evans, Neil J Greening
- 
- PA1182 Dose post-exercise heart rate recovery time predict subclinical heart damage in non-severe covid survivors? A lesson from cardiopulmonary exercise test**  
Seyedeh Zahra Fotooh Kiaei (Tehran, Islamic Republic of Iran), Hossein Kazemizadeh, Atefeh Roumi, Omalbanin Paknejad, Mehrnaz Asadi Gharabaghi
- 
- PA1183 Long term pulmonary sequelae of COVID-19 pneumonia among recovered healthcare workers using High Resolution Chest CT scan and mMRC score**  
Gayle Francez Monique Tandoc (Baguio City, Philippines), Maria Luella De Leon, Bernard Demot, Cajulao Thea Pamela, Haya Larry, Dulay Tyrone, Pagalanan Jason
- 
- PA1184 Combination of tachycardia, brain fog, and dizziness in a cohort of patients with post-Covid-19 syndrome**  
Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Päivi Piirilä
- 
- PA1185 Long COVID symptoms in intensive care unit survivors, a prospective study**  
Amani Kacem (Sousse, Tunisia), Yosri Ben Ali, Safa Ben Mansour, Khalil Attia, Dhouha Ben Braiek, Hend Zorgati, Sourour Bel Haj Youssef, Rahma Ben Jazia, Anis Maatallah, Ahmed Jamel, Houda Belkhiria, Jihene Ayachi



- PA1186** **Long term changes in pulmonary function among ICU COVID19 survivors**  
Amani Kacem (Sousse, Tunisia), Yosri Ben Ali, Safa Ben Mansour, Rihab Boubtane, Dhouha Ben Braiek, Hend Zorgati, Sourour Bel Haj Youssef, Rahma Ben Jazia, Anis Maatallah, Ahmed Jamel, Houda Belkhiria, Jihene Ayachi
- PA1187** **Exercise Training Improves Exercise Capacity and Quality of Life in Long Haul COVID Patients-Preliminary Results**  
William Stringer (Long Beach, United States), Asghar Abbasi, Michelina Iacovino, Jaqueline Tosolini, Chiara Gattoni, Christopher Hwe, Mary Burns, Charles Lanks, Carrie Ferguson, Harry Rossiter, Richard Casaburi
- PA1188** **Exercise tolerance in patients with long COVID-19 syndrome: a combined cardiopulmonary exercise testing and echocardiographic study**  
Angelos Vontetsianos (ATHENS, Greece), Nikolaos Chynkiamis, Maria Ioanna Gounaridi, Christina Anagnostopoulou, Evaggelia Koukaki, Agamemnon Bakakos, Evangelos Oikonomou, Emmanouil Vavouranakis, Georgios Kaltsakas, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris
- PA1189** **One year evolution of abnormal breathing during exercise in patients with post COVID-19 condition**  
Kristofer Hedman (Linköping, Sweden), Anna Von Gruenewaldt, Frida Nikesjö, Karolina Kristenson, Eva Nylander

**PS-20 in poster area** **Session 141** **12:30 - 14:00**

**Poster session: From diagnosis to therapy in pulmonary arterial hypertension**

**Disease(s) :** Pulmonary vascular diseases Interstitial lung diseases

**Method(s) :** Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** Horst Olschewski (Graz, Austria), Etienne-Marie Jutant (Poitiers, France)

- PA1190** **Diagnosing pulmonary arterial hypertension in the Real World**  
Rogier Klok (Twello, Netherlands), R James White, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch
- PA1191** **Management of acute decompensated pulmonary arterial hypertension: results of the ERS Clinical Research Collaboration PHAROS survey**  
Laurent Savale (Le Kremlin-Bicêtre, France), Harm-Jan Bogaard, Irene Lang, Pilar Escribano-Subias, Frances De Man, Abilio Reis, Marion Delcroix, Olivier Sitbon
- PA1192** **As time goes by... 2022 versus 2011 ERS-CRC PHAROS survey on managing pulmonary arterial hypertension (PAH) in European expert centres**  
Adam Torbicki (Otwock, Poland), Luke S Howard, Gergely Meszaros, Joanna Pepke-Zaba, Abilio Reis, Olivier Sitbon, Marion Delcroix On Behalf Of Pharos Investigators
- PA1193** **Impact of the new definition of precapillary pulmonary hypertension on the prevalence of portopulmonary hypertension in patients referred for liver transplantation**  
Hélène Pringuez (Paris, France), Audrey Baron, Anne Roche, Xavier Jaïs, Athénaïs Boucly, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale
- PA1194** **Treprostinil transition from subcutaneous to intravenous in pediatric patients with Pulmonary Hypertension undergoing a risky procedure.**  
Ana Díez Izquierdo (Barcelona, Spain), Gina Bustamante, Alba Torrent, Maria Morillo, Ignacio Iglesias, Sandra Rovira, Montserrat Pujol, Antonio Moreno
- PA1195** **End-of-life healthcare resource utilization and costs in patients with PAH: a real-world analysis**  
Dominik Lautsch (North Wales, United States), Tracey Weiss, Dena Rosen Ramey, Ngan Pham, Nazneen Shaikh, Dajun Tian, Xiaohui Zhao, Aimee Near, Steven Nathan
- PA1196** **Macitentan tadalafil fixed dose combination (FDC) in patients with pulmonary arterial hypertension (PAH): A subgroup analysis from A DUE**  
Pavel Jansa (Jirny, Czech Republic), Kelly Chin, Ekkehard Grünig, Jakob Hauser, Matthieu Pannaux, Hany Rofael, Fenling Fan
- PA1197** **A real-word evidence study of PH-LD, PH-ILD and PAH in France, Germany, and the UK**  
John Wort (London, United Kingdom), Juergen Behr, Vincent Cottin, David Kiely, Michael Kreuter, Olivier Sitbon, Aurélie Chekroun Martinot, Catia C. Proenca, Miriam Fernández Delgado, Gabriela Bacchini Jeanneret
- PA1198** **Treatment-associated changes in cardiopulmonary exercise test variables: upfront combination vs monotherapy in pulmonary arterial hypertension**  
Andrea Baccelli (Milano, Italy), Rocco Rinaldo, Rachel Davies, Francesco Lo Giudice, Gulammehdi Haji, Michele Mondoni, Stefano Centanni, Luke Howard

- PA1199 Living with pulmonary hypertension – a cross-sectional survey of UK patients**  
Iain Armstrong (sheffield, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith
- PA1200 Rodatristat ethyl: characterization of reductions in peripheral serotonin supportive of ELEVATE 2, a Phase IIb clinical study for pulmonary arterial hypertension**  
Courtney McKernan (Durham, United States), Michelle Palacios, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring
- PA1201 Pulmonary arterial hypertension with comorbidities – does dual therapy have a role?**  
Julia Thomas (Dumfries, United Kingdom), Harrison Stubbs, Martin Johnson, Colin Church, Melanie Brewis
- PA1202 Initial dual oral combination therapy in patient with pulmonary arterial hypertension and cardiovascular comorbidities**  
Athénaïs Boucly (Le Kremlin Bicêtre, France), Laurent Savale, David Montani, Xavier Jaïs, Marc Humbert, Olivier Sitbon
- PA1203 The impact of comorbidities on inhaled treprostinil treatment in patients with pulmonary arterial hypertension**  
Vallerie McLaughlin (Ann Arbor, United States), Rahul Argula, Shelley Shapiro, Karim El-Kersh, Eric Shen, Hyoshin Kim, Meredith Broderick
- PA1204 Methamphetamine and idiopathic PAH: Similar treatment, similar outcomes**  
Cole Uhland (tucson, United States), Angela Gibbs, Michael Insel, Saad Kubba, Franz Rischard
- PA1205 Use of Long-term Oxygen Therapy in Patients With Pulmonary Hypertension in Spain**  
Rodrigo Torres Castro (Barcelona, Spain), Gregorio Miguel Pérez Peñate, Jesús Pérez Sagredo, Rafael Bravo Marqués, Clara Soto Abánades, Purificación Ramírez Martín, Víctor M. Becerra Muñoz, Pilar Escribano Subías, Joan Albert Barberà, Isabel Blanco, . On Behalf Of The Rehap Investigators
- PA1206 A UK national patient survey of attitudes towards aspects of novel clinical trial design in pulmonary hypertension**  
Joseph Newman (Cambridge, United Kingdom), Shaun Clayton, Mary Ferguson, Iain Armstrong, Elisa Ferrer-Mallol, Elin Haf Davies, Mark Toshner
- PA1207 The UPHILL study: a nutrition and lifestyle intervention to improve quality of life for patients with pulmonary arterial hypertension**  
Chermaine Kwant (Den Haag, Netherlands), Frances De Man, Frans Van Der Horst, Harm-Jan Bogaard, Anton Vonk Noordegraaf
- PA1208 A randomized study to evaluate the effects of single-dose MK-5475 co-administered with sildenafil on systemic hemodynamics**  
Mahesh J. Patel (Rahway, United States), Ednan K. Bajwa, Dawn Cislak, John Palcza, Tom Reynders, Jenny Barthson, Eseng Lai, S. Aubrey Stoch
- PA1209 Rodatristat ethyl: peripheral serotonin targeting with low risk for impacting mood supportive of ELEVATE 2, a Phase IIb clinical study for pulmonary arterial hypertension**  
Michelle Palacios (Cary, United States), Courtney Mckernan, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring

## PS-3 in poster area

## Session 142

12:30 - 14:00

## Poster session: Acute respiratory distress syndrome

Disease(s) : Respiratory critical care Interstitial lung diseases Airway diseases

Method(s) : Public health General respiratory patient care Respiratory intensive care Physiology Imaging Epidemiology

Tag(s) : Clinical

Chairs : Lieuwe D.J. Bos (Amsterdam, Netherlands), Jacobo Sellares Torres (Barcelona, Spain)

- PA1210 ARDS mortality prediction model using evolving clinical data and chest x ray imaging**  
Ana Cysneiros (Lisboa, Portugal), Tiago Galvão, Nuno Domingos, Pedro Jorge, Luis Bento
- PA1211 Development and validation of a diagnostic model for acute respiratory distress syndrome based on volatile organic compounds in exhaled breath**  
Shiqi Zhang (Amsterdam, Netherlands), Laura A. Hagens, Nanon F.L. Heijnen, Marcus J. Schultz, Tom Van Der Poll, Marry R. Smit, Ronny M. Schnabel, Dennis C.J.J Bergmans, Lieuwe D.J. Bos
- PA1212 Modeling lung ventilation in de novo acute respiratory failure: a bench study**  
Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Christian Caillard, Robin Thevenin, Clemence Roussel, David Debeaumont, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clement Medrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

- Physiological effects of lung protective ventilation in patients with lung fibrosis and usual interstitial pneumonia pattern versus primary ARDS: a preliminary matched-control study**  
**PA1213** Roberto Tonelli (Modena, Italy), Salvatore Grasso, Andrea Cortegiani, Lorenzo Ball, Giulia Bruzzi, Antonio Moretti, Francesco Murgolo, Rossella Di Mussi, Dario Andrisani, Filippo Gozzi, Ivana Castaniere, Riccardo Fantini, Luca Tabbi, Stefania Cerri, Anna Valeria Samarelli, Giulia Raineri, Giacomo Grasselli, Enrico Clini, Alessandri Marchioni
- 
- Modeling lung ventilation of control and patients with lung fibrosis at rest and effort: a bench study**  
**PA1214** Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Clemence Roussel, David Debeaumont, Christian Caillard, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clement Medrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault
- 
- Serial metabolic lung biopsies identify candidate metabolites of ARDS pathogenesis**  
**PA1215** Kathleen Stringer (Ann Arbor, United States), Ruchi Sharma, Christopher Gillies, Mohammad Tiba, Brendan Mccracken, Thomas Flott, Menglian Zhou, Kristine Konopka, Michael Sjoding, Kevin Ward, Robert Dickson
- 
- Association between fluid balance and clinical outcomes in pediatric acute respiratory distress syndrome: A single-center retrospective cohort study**  
**PA1216** JIEUN YOO (seoul, Republic of Korea), Hamin Kim, Yun Young Roh, Mireu Park, Jong Deok Kim, Min Jung Kim, Yong Ju Lee, Yoon Hee Kim, Kyung Won Kim, Myung Hyun Sohn, Soo Yeon Kim
- 
- In Taiwan Comparing ARDS Severity: Berlin Definition vs Lung Injury Score**  
**PA1217** Chang Yujen (Taichung City, Taiwan), Chi Shuhua
- 
- Time to disrupt VILI with mixed high-frequency oscillatory and negative-pressure ventilation?**  
**PA1218** Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black
- 
- Modeling lung ventilation in acute exacerbation of interstitial lung diseases: a bench study**  
**PA1219** Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Christian Caillard, Robin Thévenin, Clemence Roussel, David Debeaumont, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clément Médrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault
- 
- Effectiveness of ECCO2-R in AE-COPD with hypercapnic acute respiratory failure, at risk of unsuccessful NIV treatment, to avoid endotracheal intubation: a rational of use**  
**PA1220** Salvatore Longobardi (Milan, Italy), Sara Bombelli, Jacopo Civello, Vincenzo Bocchino, Michele Chiericozzi, Francesco Squillante, Paolo Tarsia
- 
- FINANCIAL ANALYSIS OF TWO HIGH AND LOW COMPLEXITY INTERMEDIATE RESPIRATORY CARE UNITS**  
**PA1221** Adriana Martin Pascual (Tiana, Spain), Marina Galdeano Lozano, Sarah Beatrice Heili-Frades Zimmermann, Toni Marin Muñoz, Irene Aldás Criado, Monica Matute Villacis, Julio Alfaro Alvarez, Ana Nuñez Condominas, Antoni Rosell Gratacós, Jorge Abad Capa, Olga Parra Ordaz
- 
- Methodological approaches for the determination of diaphragm atrophy and dysfunction during invasive ventilation.**  
**PA1222** Jens Spiesshoefer (Aachen, Germany), Mehdi Senol, Binaya Regmi, Faniry Ratsimba, Oscar Gorol, Mustafa Elfeturi, Benedikt Jörn, Alexander Kersten, Michael Dreher
- 
- Relationship between cytokine storm and hospital mortality in severe coronavirus disease-2019**  
**PA1223** Je Hyeong Kim (Ansan, Republic of Korea), Beong Ki Kim, Sua Kim, Yu Jin Kim, Seung Heon Lee, In Bum Suh
- 
- Clinical and demographic risk factors for the development of ARDS among severe COVID-19 patients**  
**PA1224** Marelyn Jao (Quezon City, Philippines), Windfield Tan
- 
- Late Breaking Abstract - Contemporary risk factors for severe COVID-19**  
**PA1225** Paulo Mergulhão (GONDOMAR, Portugal), José Artur Paiva, Inês Mendonça, Pedro Silveira, Isabel Eira, João Ribeiro, Pedro Póvoa, Rosário Cardoso, Aníbal Marinho, Nádia Guimarães, Francisco Esteves, Daniela Bento, Igor Milet, Joana Cepeda, Antero Vale Fernandes, Rui Gomes, Manuela Henriques, Mariana Santos, Paulo Martins, Carolina Costa, Paulo Telles Freitas, Joana Nogueira, João Gonçalves Pereira, Henrique Oliveira, Filipe Froes
- 
- Prognostic value of eosinophil count on mortality of ECMO treated COVID-19 patients**  
**PA1226** Ildikó Horváth (Budakeszi, Hungary), Flora Varga, Szabolcs Szigeti, Fruzsina Szilágyi, Zsuzsanna Miklós
- 
- Late Breaking Abstract - Unveiling Exceptional Outcomes: A Comprehensive Evaluation of Patient Admissions in a Novel COVID-19 High Dependency Unit during the Initial Surge**  
**PA1227** Razan Ghareeb (London, United Kingdom), Sobia Chaudhary, Sundeep Kaul
- 
- Late Breaking Abstract - Aminophylline in COPD- Utility and Treatment Effects: ACUTE**  
**PA1228** Raja Dhar (Kolkata (West Bengal), India), Amrita Bhattacharyya, Shyam Krishnan, Aditya Satpati, Beauty Biswas, Shubham Sharma

**PA1229 Late Breaking Abstract - Diaphragmatic dysfunction in patient with dyspnea in emergency department**  
Cosimo Cosimato (Naples, Italy), Claudia Carelli, Giovanna Cristiano, Clarissa Anna De Rosa, Claudia Sara Cimmino, Francesca Paudice, Raffaella Epifani, Gabriella Maria Monsurrò, Vincenzo De Simone, Giuseppe Fiorentino, Mario Guarino

## PS-4 in poster area

## Session 143

12:30 - 14:00

## Poster session: New insights and biomarkers in pulmonary fibrosis and lung cancer

Disease(s) : [Interstitial lung diseases](#) [Respiratory critical care](#) [Pulmonary vascular diseases](#) [Airway diseases](#) [Thoracic oncology](#)

Method(s) : Cell and molecular biology Endoscopy and interventional pulmonology Epidemiology Respiratory intensive care

Tag(s) : Basic science, Translational

Chairs : Arnaud Mailleux (Paris, France), Guillaume Beltramo (Dijon, France)

**PA1230 Anti-fibrotic effect of FGF21 in pulmonary fibrosis**  
Mada Ghanem (Paris, France), Gabrielle Archer, Aurélien Justet, Mouna Hachem, Tiara Boghanim, Aurélie Vadel, Nicolas Poté, Aurélie Cazes, Pierre Mordant, Yves Castier, Hervé Mal, Madeleine Jaillet, Arnaud Mailleux, Bruno Crestani

**PA1231 Endotracheal FGF19 limits bleomycin-induced pulmonary fibrosis in mice : an innovative treatment of pulmonary fibrosis?**  
Mada Ghanem (Paris, France), Aurélien Justet, Madeleine Jaillet, Shraddha Sharma, Arnaud Mailleux, Bruno Crestani

**PA1232 Endothelial cellular senescence contributes to the pathogenesis of IPF with pulmonary hypertension**  
Kohei Otsubo (Hamilton, Canada), Kazuya Tsubouchi, Quan Zhou, Alex Noble, Kjetil Ask, Martin Kolb

**PA1233 CRISPR screening in primary human lung fibroblasts and small airway epithelial cells identifies novel targets to reduce cellular senescence with potential to treat both COPD and IPF**  
Johan Mattsson (Mölnådal, Sweden), Jenna Bradley, Pooja Sharma, Leire Escudero-Ibarz, Bairu Zhang, Chen Qian, Patrick O'Shea, Catherine Wrench, Maria Karlsson, Catherine Overed-Sayer, Isabel Rosa, James Pilling, Stephanie Constantinou, Lambert Montava Garriga, Valentina Quarantotti, Hui Sun Leong, Chang Kim, Elissavet Kentepozidou, Ceri Wiggins, Roxane Paulin, Laura Rosenberg, Davide Gianni, Henric Olsson

**PA1234 Pirfenidone ameliorates acute respiratory distress syndrome through suppressing pulmonary inflammation and fibrosis in rats**  
Cheonwoong Choi (Seoul, Republic of Korea), Yeehyung Kim

**PA1235 Functional profiling of primary human fibroblasts derived from healthy and diseased lung tissue**  
Michael Gerckens (München, Germany), Armando-Marco Dworsky, Mircea Gabriel Stoleriu, Nikolaus Kneidinger, Jürgen Behr, Roxana Maria Wasnick, Ali Önder Yildirim, Gerald Burgstaller

**PA1236 mtDNA in bronchoalveolar lavage fluid is a prognostic factor for IPF and AE-IPF**  
Jun Fukihara (Seto, Japan), Koji Sakamoto, Taiki Furukawa, Ryo Teramachi, Yoshiki Ikeyama, Kensuke Kataoka, Yasuhiro Kondoh, Naozumi Hashimoto, Makoto Ishii

**PA1237 Endothelin-1 as a potential biomarker of interstitial lung disease in patients with rheumatoid arthritis**  
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Belen Atienza-Mateo, Fernanda Genre, Victor Mora-Cuesta, David Iturbe-Fernández, María Sebastián Mora-Gil, Virginia Portilla, Alfonso Corrales, Iván Ferraz-Amaro, Ricardo Blanco, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

**PA1238 BIOMARKERS BASED ON GENE EXPRESSION IN LUNG CANCER**  
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Diego Lozano Peral, Rafael Larrosa Jiménez, Rocio Bautista Moreno

**PA1239 USE OF miRNA AS A BIOMARKER IN LUNG NEOPLASMS**  
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Diego Lopez Peral, Rafael Larrosa Jiménez, Rocio Bautista Moreno

**PA1240 Elucidating the molecular mechanism of Non-specific interstitial pneumonia from bronchoalveolar lavage**  
Mohammad Shadab Ali (New Delhi, India), Vijay Hadda, Anita Chopra

**PA1241 Detection of NTRK fusions in a series of Brazilian patients diagnosed with non-small cell lung cancer.**  
Rui Reis (Barretos, Brazil), Rodrigo de Oliveira Cavagna, Beatriz Garbe Zaniolo, Flávia Escremin De Paula, Gustavo Noriz Berardinelli, Murilo Queiroz De Almeida Bonatelli, Iara Santana, Eduardo Caetano Albino Da Silva, Josiane Mourão Dias, Alexandre Arthur Jacinto, Rachid Eduardo Noleto Da Nóbrega Oliveira, Leticia Ferro Leal

**EARLY DETECTION OF LUNG CANCER BY METABOLOMIC ANALYSIS APPLIED TO SERUM SAMPLES BEFORE CLINICAL DIAGNOSIS IN HIGH-RISK PATIENTS.**

- PA1242** Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marín Trigo, Ciro Casanova Macario, Borja García-Cosío Piqueras, Isabel Mir Viladrich, Ingrid Solanes García, José Luis Gómez Ariza, José Luis López-Campos Bodineau, Luis Seijo Maceiras, Nuria Feu Collado, Carlos Cabrera López, Carlos Amado Diago, Amparo Romero Plaza, Luis Alejandro Padrón Fraysse, Belen Callejón Leblic, Eduardo Márquez Martín, Margarita Marín Royo, Antonia Llunell Casanovas, Eva Balcells Vilarnau, Cristina Martínez González, Juan Bautista Galdíz Iturri, Celia Lacárcel Bautista, Juan Pablo De Torres Tajés, Isabel Díaz Olivarez, Germán Peces-Barba Romero

- PA1243** **A prospective study of NSCLC patients investigating treatment response and resistance mutations**  
Jana Laszkowski (Kiel, Germany), Michael Forster, Georg Hemmrich-Stanisak, Andre Franke, Malene Støchkel Frank

- PA1244** **Screening of potential protein biomarkers in Bronchoalveolar Lavage Fluid (BALF) for early-stage lung adenocarcinoma with diagnostic value by Liquid chromatography MS analysis (LC-MS/MS)**  
Huohuan Tian (Chengdu, China), Linhui Yang, Shisheng Wang, Tao Su, Hui Zhu, Sai Yang, Hao Yang, Dan Liu

- PA1245** **Thymic epithelial tumours present the number of known and novel gene variants in molecular analysis using targeted next-generation sequencing**  
Adam Szpechciński (Warszawa, Poland), Malgorzata Szolkowska, Sebastian Winiarski, Urszula Lechowicz, Piotr Wisniewski, Magdalena Knetki-Wroblewska

- PA1246** **Exogenous tryptophan aggravates experimental lung fibrosis through activation of AKT-mTORC1 pathway**  
Sung-Woo Park (Bucheon-Si, Republic of Korea), Jisu Hong, Ae-Rin Baek, Susie Chin, An Soo Jang, Do Jin Kim, June Hyuk Lee, Shin Hee Park

- PA1247** **Late Breaking Abstract - Inhibiting OGG1, a new strategy for the treatment of IPF, blocking inflammatory and fibrotic cascades**  
Sandra Ekstedt (Stockholm, Sweden), Christina Kalderen, Ulrika Warpman Berglund

- PA1248** **Late Breaking Abstract - Anti-fibrotic and anti-inflammatory properties of isoform-selective SIK inhibitors in vitro and in vivo**  
Kristin Wiquist (Mölnådal, Sweden), Alexander Vidal, Madeleine Ingelsten, Tomas Ottosson, Eylem Gürcan, Thomais Markou, Melker Göransson

**PS-5 in poster area****Session 144****12:30 - 14:00****Poster session: Lung repair and regeneration**

Disease(s) : Pulmonary vascular diseases Airway diseases Respiratory critical care Interstitial lung diseases

Method(s) : Physiology Respiratory intensive care Cell and molecular biology Imaging Pulmonary function testing

Tag(s) : Translational

Chairs : H. Irene Heijink (Groningen, Netherlands), Nahal Mansouri (Lausanne, Switzerland)

- PA1249** **OMV promotes the secretory autophagy of IL-1 $\beta$ in macrophage via GBP2**  
(GUANGZHOU, China), Ying Meng

- PA1250** **The SASP from COPD fibroblasts is pro-inflammatory and reduces decorin secretion**  
Rhodé Meuleman (Groningen, Netherlands), Corry-Anke Brandsma, Wierd Kooistra, Maarten Van Den Berge, Wim Timens, Roy R Woldhuis

- PA1251** **Protein disulfide-isomerase A3 contributes to COPD pathogenesis by enhancing inflammation and apoptosis in lung epithelial cells**  
Kyoung-Hee Lee (Seoul, Republic of Korea), Jimyung Park, Jiso Woo, Jiyeon Kim, Nakwon Kwak, Sang-Min Lee, Chul-Gyu Yoo

- PA1252** **The ALDH3A1 gene suppresses Periostin gene expression in human airway epithelial cells exposed to cigarette smoke**  
Senani Rathnayake (Sydney, Australia), Karosham Reddy, Dikaia Xenaki, Brian Oliver, Marteen Van Den Berge, Alen Faiz

- PA1253** **Response of bronchial and alveolar epithelial cells to poly (I:C)**  
Fateme Moheimani (Manchester, United Kingdom), Nafesa Shahdab, Chris Ward, Stephen Cummings, John S Young

- PA1254** **Study of the comorbid background and features of the clinical course of chronic obstructive pulmonary disease (COPD) in combination with atrial fibrillation**  
Guzal Karimdjanova (Tashkent, Uzbekistan), Dano Egamberdieva

- PA1255** **Smoking effects over experimental lung cancer model**  
Laura Sánchez Carretero (Madrid, Spain), Sandra Pérez Rial, Adele Chloe Cardeñosa Pérez, Oderay Mabel Cedeño Díaz, Jordi Llop, Jesús Ruíz-Cabello Osuna, Luis Seijo, Germán Peces-Barba Romero

- PA1256** **Small molecule inhibition of ATM reduces LPS-induced inflammation in acute lung injury**  
Man Luo (Hangzhou, China), Jiaoli Wang, Limin Wang
- 
- PA1257** **4-Indole-2-Arylamino-pyrimidine identifies lysosomal cathepsin L activation critical for acute lung injury**  
shiyi yang (hangzhou, China), Kaijun Chen, Min Zhang, Zhangchu Jin, Zhouyang Li, Zhengtong Mao, Huahao Shen, Xingxian Zhang, Gensheng Zhang, Zhihua Chen
- 
- PA1258** **Acute effects of e-cigarettes on lung-related extracellular vesicles**  
Mikael Kabele (Tavelsjö, Sweden), Jenny Bosson, Lukasz Antoniewicz, Magnus Lundbäck, Fariborz Mobarrez
- 
- PA1259** **Differential proteomic profiles of lung injury in rat models upon pulmonary exposure to air pollution**  
Chia-Li Han (Taipei, Taiwan), Yu-Teng Jheng, Denise Utami Putri, Manh Quan Nguyen, Hsiao-Chi Chuang, Kang-Yun Lee
- 
- PA1260** **Late Breaking Abstract - Combined treatment of Formoterol and Tanimilast improves lung organoid growth**  
Rocio Fuentes-Mateos (Groningen, Netherlands), Ka Yu Wang, Loes Kistemaker, Barbro Melgert, Fabrizio Facchinetti, Reinoud Gosens
- 
- PA1261** **Virlaza® Efficiently Inhibited LPS-induced Acute Lung Injury**  
Rodolfo De Paula Vieira (Anápolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anamei Silva-Reis, Boris Brill, Manoel Carneiro Oliveira-Junior, Edilson De Souza Carvalho, Razi Ronen
- 
- PA1262** **Effect of an agro-based compound (A-bC) on regeneration of airway epithelium in Cystic Fibrosis (CF)**  
Emilie LUCZKA (Reims, France), Damien Adam, Myriam Polette, Michel Abély, Christelle Coraux
- 
- PA1263** **Late Breaking Abstract - The expression of NOX4 and ESRP1 correlate with airway epithelial-mesenchymal transition in COPD**  
Jing Xue (Yin Chuan, China), Jieda Cui, Jiaqi Wang, Juan Chen
- 
- PA1264** **The clinical and pathogenetic roles of ITIH4 in particulate matter-related emphysema**  
Kang-Yun Lee (New Taipei City, Taiwan), Kuan-Yuan Chen, Sheng-Ming Wu, Hsiao-Chi Chuang, Shu-Chuan Ho
- 
- PA1265** **A non-Canonical cGAS-CREB Pathway in Airway Epithelium inhibits LPS-induced Acute Lung Injury**  
zhangchu jin (, China), Zhehua Shao, Wenqi Diao, Anyi Guo, Shiyi Yang, Yinling Han, Yinfang Wu, Yun Zhao, Yanping Wu, Jiixin Shen, Songmin Ying, Chao Zhang, Wen Li, Huhao Shen, Zhihua Chen, Fugui Yan
- 
- PA1266** **Alveolar epithelial cells facilitate lung inflammation and fibrosis in response to cytokines**  
Robert M. Jackson (Miami, United States), Tengjiao Cui, Medhi Wangpaichitr, Andrew V. Schally
- 
- PA1267** **Implications of reduced E-cadherin for abnormal airway epithelial damage and repair responses in COPD**  
Xinzi Zheng (Groningen, Netherlands), Irene Heijink, Martijn Nawijn
- 
- PA1268** **Specialized Pro-resolving Mediators and its precursors in Chronic Obstructive Pulmonary Disease**  
Warda Jelassi (Tunis, Tunisia), Abir Hedhli, Sameh Hadj Taieb, Khadija Euchti, Sana Cheikhrouhou, Yacine Ouahchi, Sonia Toujani, Meriem Mjid, Besma Dhahri, Moncef Feki

**PS-6 in poster area** **Session 145** **12:30 - 14:00**

**Poster session: Basic and clinical science in sleep breathing disorders: a bidirectional relationship**

**Disease(s) :** Sleep and breathing disorders Airway diseases

**Method(s) :** General respiratory patient care Surgery Physiology Epidemiology Cell and molecular biology Public health  
Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical, Translational

**Chairs :** Anne Briançon-Marjollet (Grenoble Cedex 9, France), Candelaria Caballero Eraso (Bormujos, Spain)

- PA1269** **Application of intermittent hypoxia to precisely-cut tissue slices: a novel ex vivo model for studying the parenchymal effects of obstructive sleep apnea (OSA)**  
Isaac Almendros (Barcelona, Spain), Alicia Jurado, Anna Ulldemolins, Helena Lluís, Xavier Gasull, Nuria Gavara, Raimon Sunyer, Jorge Otero, David Gozal, Ramón Farré Ventura
- 
- PA1270** **RNA expression in cord blood. Can obstructive sleep apnea (OSA) during pregnancy have any effect on fetal development?**  
Laura Cànaves (Palma de Mallorca, Spain), Paloma Giménez, Aarne Fleischer, Josep Muncunill, Maria Cerda Moncades, Ainhoa Álvarez Ruiz De Larrinaga, Andrés Sánchez Barón, Mercedes Codina Marcet, Mónica De La Peña Bravo, Antònia Barceló Bennasar, Daniel Morell-Garcia, Javier Pierola Lopetegui, José Antonio Peña Zarza, María Concepción Piñas Cebrian, Susana García Fernández, Carme Ferrer Quintana, Sabina Perello Rosello, Alberto Alonso Fernández
- 
- PA1271** **PD-L1+ small extracellular vesicles in obstructive sleep apnea syndrome**  
Wojciech Trzepizur (Angers, France), Sylvain Recoquillon, Grégoire Justeau, Jérémie Riou, Carmen Martinez, Ramaroson Andriantsitohaina, Frédéric Gagnadoux

- PA1272 Effects of CPAP therapy on molecular breath pattern in newly diagnosed OSA**  
Jonas Herth (Zürich, Switzerland), Felix Schmidt, Noriane A. Sievi, Stefan Malesevic, Patrick Baumgartner, Sarah Basler, Matteo Bradicich, Maurice Roeder, Esther I. Schwarz, Malcolm Kohler
- 
- PA1273 Measuring value of telemonitoring in obstructive sleep apnea patient pathway optimization in hospital: a Spanish example**  
Sara Correia Pinto (Porto, Portugal), Monica Gonzalez, Melike Deger Wehr, Peter Pitts
- 
- PA1274 Hypoxic burden to guide CPAP treatment allocation in OSA: findings from the ISAACC trial**  
Lucia Pinilla (Lleida, Spain), Neda Esmaeili, Gonzalo Labarca, Olga Mínguez, Dolores Martínez, Jorge Abad, Maria José Masdeu, Olga Mediano, Carmen Muñoz, Valentín Cabriada, Joaquin Duran-Cantolla, Mercè Mayos, Ramón Coloma, Josep Maria Montserrat, Mónica De La Peña, Wen-Hsin Hu, Andrew Wellman, Scott Sands, Ludovico Messineo, Ferran Barbé, Manuel Sánchez-De-La-Torre, Ali Azarbarzin
- 
- PA1275 Central sleep apnea treated by a constant low dose of CO2 supplied by a novel device**  
Yuanming Luo (Guangzhou (Guangdong), China), Yongyi Chen, Shanfeng Liang, Luguang Wu, Andrew Wellman, R Doug Mcevoy, Joerg Steier, Danny J Eckert, Michael I Polkey
- 
- PA1276 Peri-Operative Outcomes of Bariatric Surgery in Obstructive Sleep Apnoea: a Single-Centre Cohort Study**  
Cristiano van Zeller (London, United Kingdom), Richard Brown, Michael Cheng, Johan Meurling, Barbara McGowan, Joerg Steier
- 
- PA1277 Treatment of OSA initiating with CPAP at 10 cmH2O**  
Yan Chen, Lu Wang, Qishan Wei, Yingxin Wu, Shanfeng Liang, Joerg Steier, Yuanming Luo
- 
- PA1278 Is CPAP pressure titration always necessary?**  
Qishan Wei (Guangzhou, China), Qiong Ou, Shanfeng Liang, Cuizhen Huang, Simin Liu, Yuanming Luo
- 
- PA1279 Effects of adaptive servo-ventilation on quality of life and symptoms according to its treatment indication –a subgroup analysis from the read-asv registry**  
Oliver Munt (Ascheberg, Germany), Michael Arzt, Pepin Jean-Louis, Heinzer Raphael, Adam Benjafield, Holger Woehrle
- 
- PA1280 Atomoxetine and spironolactone combine to reduce obstructive sleep apnea (OSA) severity and blood pressure (BP) in hypertensive patients.**  
Alan R. Schwartz (Baltimore, United States), Laura Herpel, Richard Bogan, Bruce Corser
- 
- PA1281 Association of physical activity and BMI on sleep disordered breathing and sleep related symptoms.**  
Ronas Shakya (bergen, Norway), Elin Helga Thorarinsdottir, Vivi Schlünssen, Francisco Gomez Real, Össur Emilsson, Nils Oskar Jögi, Francisco Javier Callejas González, Cecilie Svanes, Randi J. Bertelsen, Chamara Senaratna, Eva Lindberg, Bryndis Benediktsdottir, Thorarinn Gislason, Rajesh Shigdel
- 
- PA1282 The link between the sphingolipid rheostat and obstructive sleep apnea**  
Péter Horváth (Budapest, Hungary), Lilla Büdi, Dániel Hammer, Rita Varga, György Losonczy, Ádám Tárnoki, Dávid Tárnoki, Martina Mészáros, András Bikov
- 
- PA1283 Comparing right ventricular function in patients with severe Obstructive Sleep Apnea when treated and not treated with Continuous Positive Airway Pressure**  
Ahmed Dhia El Euch (Sfax, Tunisia), Amal Saidani, Fateh Kadardar, Lina Tawes, Mouna Hacheni, Hedi Ben Slima
- 
- PA1284 Obstructive sleep apnea and falls in COPD patients: a cross-sectional and follow-up study**  
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaella Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho
- 
- PA1285 Impact of nocturnal hypoxemia on systemic inflammation in obstructive sleep apnea hypopnea syndrome (OSAS)**  
Samira Mhamdi (Mannouba, Tunisia), Safa Marzouki, Améni Naaroura,, Houda Snoussi, Chiraz Aichaouia, Selsabil Daboussi, Zied Moetamri
- 
- PA1286 Late Breaking Abstract - In-Home Smartphone-Based Prediction of Obstructive Sleep Apnea: A Validation Study with Level 2 Polysomnography**  
Jeong-Whun Kim (Seongnam, Republic of Korea), Daewoo Kim, Dongheon Lee, Joonki Hong
- 
- PA1287 Late Breaking Abstract - Differences in morbidity and mortality between patients with heart failure and either obstructive or central sleep apnea**  
Christian Horvath (Toronto, Canada), Shoichiro Yatsu, John Floras, Alexander Logan, George Tomlinson, Thomas Bradley
- 
- PA1288 Late Breaking Abstract - Detecting sleep apnea in advance using machine learning and ECG-deprived spectrogram during CPAP titration**  
Thanh Duy Linh Tran (Ho Chi Minh, Vietnam), Thi Hoang Trang Nguyen, Shang-Yang Lin, Wen-Te Liu, Chaur-Jong Hu

## PS-7 in poster area

## Session 146

12:30 - 14:00

## Poster session: Novel treatment strategies for airway diseases: a glimpse into the future

Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology Physiology General respiratory patient care Pulmonary function testing Epidemiology Pulmonary rehabilitation

Tag(s) : Translational

Chairs : Tania Maes (Ghent, Belgium), Juan José Nieto-Fontarigo (Santiago De Compostela, Spain)

PA1289	<b>A Clinical-Stage Inhaled RNAi Therapeutic For Pulmonary Inflammation Mediates Durable RAGE Silencing In Nonhuman Primates (NHP)</b> David Kasahara (Madison, United States), Szymon Klossowski, Ben Turner, Holly Hamilton, Taylor Reed, Tao Pei, James Hamilton, Erik Bush
PA1290	<b>A Lung-Targeted RNAi Therapeutics Delivery Platform Compatible With Subcutaneous (s.c.) Administration Mediates Pulmonary RAGE Silencing In Rodents And Nonhuman Primates</b> David Kasahara (Madison, United States), Ben Turner, Holly Hamilton, Taylor Reed, Szymon Klossowski, Clay Williams, Christopher Cousineau, Jing Chen, Julia Hegge, Maria Branca-Afrazi, James Hamilton, Tao Pei, Erik Bush
PA1291	<b>Heterogeneity of the lung microbiome influences response to Astegolimab, an anti ST2, in COPD</b> Koirubi Haldar (Leicester, United Kingdom), David F. Choy, Ahmed Yosuf, Vijay Mistry, Jordan S. Mar, Dorothy Cheung, Michele A. Grimbaldston, Christopher Brightling
PA1292	<b>ALIENTO and ARNASA: Study designs of two randomised, double-blind, placebo-controlled trials of astegolimab in patients with COPD</b> Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), James D Chalmers, Parameswaran Nair, Neil J Greening, Russell P Bowler, Tonya Winders, Julie Olsson, Katerina Samara, Divya Mohan, Peter Calverley
PA1293	<b>Characterization of the ADME profile of tanimilast following administration of an intravenous microtracer combined with a single inhaled dose in healthy males</b> Michele Bassi (Parma, Italy), Veronica Puviani, Debora Santoro, Sonia Biondaro, Aida Emirova, Mirco Govoni
PA1294	<b>Effects of Telaglenastat, a glutaminase inhibitor, on airway inflammation and cellular senescence in Cigarette-smoke exposed mice</b> Kazuhiro Ito (London, United Kingdom), Yasuo Kizawa, Yuki Nishimoto, Genki Kimura, Shyreen Hassibi, Jonathan Baker
PA1295	<b>COPD and anticoagulant therapy: A retrospective cohort study of 1-year all-cause mortality and risk of hospitalization due to a severe exacerbation of COPD</b> Bård-Emil Vang Gundersen (København Ø, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Tor Biering-Sørensen, Allan Linneberg, Jens Ulrik Jensen
PA1296	<b>The bacterial lysate OM-85 amplifies efficacy of Allergen Immunotherapy (AIT) in allergic patients with asthma and rhinitis</b> Antonios Christopoulos (Patras, Greece), Maria Elpida Christopoulou, Panagiota Tsiri, Vasiliki Sotiropoulou, Eva Theohari, Electra Koulousousa, Demitris Komninos, Georgios Tsirikos, Ioannis Christopoulos, Argyrios Tzouvelekis
PA1297	<b>Effects of acid-suppressive medications in patients with chronic obstructive pulmonary disease: a multicenter study using a common data model</b> Yeonjeong Heo (Chuncheon, Republic of Korea), Jeongwon Heo, Seung-Joon Lee, Sung Joon Lee, Seon-Sook Han, Seong-Joon Cho, Ja Kyoung Kim
PA1298	<b>The corticosteroid-sparing effect of vigorous physical activity - a secondary analysis of a randomised controlled trial</b> Anders Pitzner-Fabricsius (Allerød, Denmark), Vibeke Backer
PA1300	<b>Anamorelin, a ghrelin receptor agonist, inhibited the allergic airway inflammation in mice</b> Hiroki Bando (Tokushima, Japan), Seidai Sato, Hirohisa Ogawa, Kazuya Koyama, Kojin Murakami, Yuya Yamashita, Nandin-Erdene Danzan, Keiko Haji, Nobuhito Naito, Hiroshi Kawano, Yasuhiko Nishioka
PA1301	<b>PI3K<math>\gamma</math> inhibition suppresses key disease features in a rat model of asthma</b> James Pinkerton (London, United Kingdom), James Pinkerton, Silvia Preite, Antonio Piras, Dimitrios Zervas, Thomais Markou, Mark Freeman, Tobias Hofving, Eva Lamm Bergstrom, Emil Ivarsson, Sara Bonvini, Wayne Brailsford, Linda Yrlid, Maria Belvisi, Mark Birrell
PA1303	<b>Effects of Toll-like Receptor Activation on Airway Responses and Inflammation in Guinea Pigs</b> Yujiao Xiang (Solna, Sweden), Jielu Liu, Mu Nie, Jesper Säfholm, Mikael Adner
PA1304	<b>Effects of melatonin in an Asthma-COPD overlap model</b> Vitorio Crema Scheffer (São Paulo, Brazil), Cristiane Ribeiro, Leandro Camargo, Silvia Fukuzaki, Francine Almeida, Renato Righetti, Iolanda Tibério, Edna Leick



- PA1305** **Silencing TSLP expression with a lung-targeted RNAi molecule suppresses pulmonary allergic inflammation**  
Tingting Yuan (VERONA, United States), Szymon Klossowski, Maria Afrazi, Holly Hamilton, Julia Hegge, James Hamilton, Tao Pei, Erik Bush
- PA1306** **Effectiveness of roflumilast, a phosphodiesterase type-4 (PDE4) inhibitor on biomarkers of inflammation in COPD**  
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Alla Zuban, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Galyna Korzh, Iryna Makoyda, Nadiia Korzh, Uliana Shevchuk-Budz
- PA1307** **The efficacy of chronotherapy in asthma: an open-label, randomised 3-way crossover trial of inhaled corticosteroids (ICS) in atopic asthma**  
Ran Wang (Manchester (Greater Manchester), United Kingdom), Robert Maidstone, David Ray, Andrew Loudon, Angela Simpson, Dave Singh, Hannah Durrington
- PA1308** **Late Breaking Abstract - Efficacy and Safety of Dupilumab for COPD with Type 2 Inflammation Indicated by Elevated Eosinophils**  
Surya Bhatt (Birmingham, United States), Klaus F. Rabe, Nicola A. Hanania, Claus Vogelmeier, Jeremy Cole, Mona Bafadhel, Stephanie A. Christenson, Alberto Papi, Dave Singh, Elizabeth Laws, Leda Mannent, Eric Mortensen, Jennifer Maloney, Xin Lu, Deborah Bauer, Ashish Bansal, Lacey B. Robinson, Raolat M. Abdulai

**PS-8 in poster area** **Session 147** **12:30 - 14:00**

**Poster session: New frontiers in chronic obstructive pulmonary disease characterisation and management**

**Disease(s)** : **Airway diseases** **Sleep and breathing disorders**

**Method(s)** : Imaging General respiratory patient care Pulmonary function testing Epidemiology Public health Cell and molecular biology

**Tag(s)** : Clinical

**Chairs** : Alexander Mathioudakis (Stockport, United Kingdom), Augusta Beech (Manchester, United Kingdom)

- PA1309** **Bronchodilator response assessed by spirometry and SPECT/CT in COPD.**  
Edward Jeagal (Croydon Park, Australia), Hooria Alowiwi, Harley Koltai, Troy Cross, Kaj Blokland, Elizabeth Bailey, Kathy Willowson, David Chapman, Gregory King
- PA1310** **Clinical and functional effects of inhaled dual therapy umeclidinium/vilanterol in patients with chronic obstructive pulmonary disease: a real-life study**  
Corrado Pelaia (Catanzaro (CZ), Italy), Anna Ferrante Bannera, Fioramante Lello Rotundo, Francesco Giuseppe Tropea, Giuseppe Armentaro, Angelantonio Maglio, Angela Sciacqua, Alessandro Vatrella, Girolamo Pelaia
- PA1311** **Current smoking reduces small airway eosinophil counts in COPD**  
Augusta Beech (Manchester, United Kingdom), Sophie Booth, Dave Singh, Andrew Higham
- PA1312** **COPD and heart rhythm disturbances: Overview of supraventricular and ventricular arrhythmias**  
Daniela Buklioska Ilievska (Skopje, North Macedonia), Jordan Minov, Adriana Buklioska, Marjan Baloski, Ivana Mickovski, Biljana Prgova-Veljanova, Nade Kochovska Kamchevska, Marinela Vasilevska
- PA1313** **Regional variation of COPD burden in Alberta, Canada**  
Christopher Licskai (London (ON), Canada), Sheena Kayaniyil, Anna Hussey, Phongsack Manivong, Suzanne McMullen, Madonna Ferrone, Manisha Talukdar
- PA1314** **Impact of comorbidities on quality of sleep among Tunisian patients with chronic obstructive pulmonary disease**  
Houda Rouis (Ariana, Tunisia), amal chennoufi, Chirine Moussa, Rouis Houda, Ghourabi Asma, Khattab Amel, Khouaja Ibtihel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Maalej Sonia
- PA1315** **Does corticosteroid intake increase the risk of Vitamin D deficiency in Tunisia COPD patients?**  
Asma Zargouni (Ariana, Tunisia), Meriem Mjid, Abir Hedhli, Khadija Euchi, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Besma Dhahri
- PA1316** **Clinical characteristics of patients with COPD in Hong Kong**  
Fanny W.S. Ko (Shatin, Hong Kong), Xiaomeng Xu, Pinky Hon, Priyan Ratnasingham, Dominique Milea, David S C Hui
- PA1317** **Observance of long-term non-invasive ventilation in COPD: VentiObs study**  
Gilles Jebrak (Paris, France), Capucine Morelot-Panzini, Jean Christophe Honoré, Laurent Pupin, Bouchra Lamia
- PA1318** **Clinical factors linked to the type of respiratory medication in COPD: Results from COSYCONET**  
Peter Alter (Marburg, Germany), Kathrin Kahnert, Franziska C. Trudzinski, Robert Bals, Henrik Watz, Tim Speicher, Sandra Söhler, Tobias Welte, Klaus F. R. Rabe, Emiel F. M. Wouters, Claus F. Vogelmeier, Rudolf A. Jörres

- PA1319 Medication success among real-world users of budesonide/glycopyrrolate/formoterol fumarate (BGF) for the management of COPD in a UK primary care population**  
Hana Müllerová (Cambridge, United Kingdom), Jeffrey Shi Kai Chan, Heath Heatley, Victoria Carter, John Townend, Derek Skinner, Stefan Franzén, Johann Castaneda, Jonathan Marshall, David Price
- PA1320 Addressing treatable traits: a meta-analysis to assess the effect of N-acetylcysteine on respiratory symptoms and exacerbations in pre-COPD and COPD patients**  
Alberto Papi (Cona, Ferrara, Italy), Federico Baraldi, Franco Alfano, Tommaso Bigoni
- PA1321 Cost-Effectiveness of Umeclidinium/Vilanterol (UMEC/VI) Versus Glycopyrrolate/Formoterol Fumarate (GLY/FOR) in Symptomatic Patients with COPD in the UK: The AERISTO trial**  
Stephen G Noorduyn (Mississauga, Canada), Afisi S Ismaila, Dhvani Shah, Alan Martin, Robyn Kendall, Stephen Noorduyn, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton
- PA1322 Real-world study of formoterol/budesonide delivered through BAI in COPD patients**  
Balamurugan Santhalingam (Chennai (Tamil Nadu), India), Himanshu Pophale, Utsav Samariya, Komalkirti Apte, Sheetu Singh, Raja Dhar, Sujeet Rajan, Rajesh Swarnakar, Deepak Talwar, Meena Lopez, Vaishali Naik, Sandesh Sawant, Sushmeeta Chhowala, Abhijit Vaidya, Jaideep Gogtay
- PA1323 Benralizumab increases time to recurrent exacerbations in COPD patients on triple therapy with frequent exacerbations and an eosinophilic phenotype**  
Dave Singh (Manchester, United Kingdom), Gerard J. Crine, Alvar Agustí, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saraiva, Ying Fan, Maria Jison, Ubaldo J. Martin, Ioannis Psallidas
- PA1324 Azithromycin maintenance therapy for prevention of Chronic Obstructive Pulmonary Disease Exacerbations**  
Deepansh Gupta (Rishikesh, India), Lokender Kumar, Avishek Layek
- PA1325 Clusters in chronic obstructive pulmonary disease based on inhaled corticosteroid treatment and pneumonia incidence – a nationwide cohort study**  
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke
- PA1326 Trends in severe COPD exacerbations and mortality following the introduction of ultra-long-acting bronchodilators: an interrupted time-series study between 2007 and 2018 in the province Quebec, Canada**  
Charles-Antoine Guay (Québec, Canada), Caroline Sirois, Claudia Beaudoin, Laurie Perreault, François Maltais, Pierre-Hugues Carmichael, Elhadji Anassour Laouan Sidi, Steeve Provencher
- PA1327 Clinical effect of inhaled corticosteroid withdrawal in stable COPD Patients**  
Chung-Yu Chen (Douliou (Yunlin), Taiwan), Cheng-Yu Chang, Shih-Chieh Chang, Yu-Feng Wei
- PA1328 Cost-Effectiveness of Umeclidinium/Vilanterol Versus Indacaterol/Glycopyrronium in Symptomatic patients with COPD in the UK**  
Stephen G Noorduyn (Mississauga, Canada), Afisi S Ismaila, Dhvani Shah, Alan Martin, Robyn Kendall, Stephen Noorduyn, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton

## PS-9 in poster area

## Session 148

12:30 - 14:00

## Poster session: Comorbidities in chronic obstructive pulmonary disease

Disease(s) : [Airway diseases](#) [Thoracic oncology](#)

Method(s) : Epidemiology General respiratory patient care Imaging Pulmonary function testing Physiology Pulmonary rehabilitation Public health Cell and molecular biology

Tag(s) : Clinical

Chairs : Leonardo Michele Fabbri (Modena, Italy), Bianca Beghè (Modena (MO), Italy)

- PA1329 Cardiac adrenergic innervation and air trapping in patients with moderate-to-severe chronic obstructive pulmonary disease: initial data from a pilot study**  
Ieva Dimiene (Kaunas, Lithuania), Deimantė Hoppenot, Donatas Vajauskas, Skaidrius Miliauskas
- PA1330 The prevalence of emphysema in patients undergoing lung cancer screening**  
Marija Vukoja (Sremska Kamenica, Republic of Serbia), Dragan Dragisic, Gordana Vujasinovic, Jelena Djekic Malbasa, Ilija Andrijevic, Goran Stojanovic, Ivan Kopitovic
- PA1331 Diagnostic utility of specific frailty questionnaire, the Kihon Checklist for hippocampal atrophy in COPD**  
Tsunahiko Hirano (Ube, Japan), Shun Takahashi, Ayumi Fukatsu-Chikumoto, Takuya Ishida, Tomihiro Donishi, Kazuyoshi Suga, Keiko Doi, Keiji Oishi, Shuichiro Ohata, Yoriyuki Murata, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga
- PA1332 Impact of atrial fibrillation and flutter on mortality in patients admitted with acute exacerbation of COPD**  
Peter Ascanius Jacobsen (Aalborg, Denmark), Stine Kjærsgaard Hansen, Sofie Vejby Thorndal, Ulla Møller Weinreich

- PA1333** **The impact of air trapping on left ventricle volumes in patients with treatment naïve moderate-to-severe chronic obstructive pulmonary disease**  
Ieva Dimiene (Kaunas, Lithuania), Deimante Hoppenot, Lina Padervinskiene, Skaidrius Miliauskas
- 
- PA1334** **Coronary artery disease, COPD exacerbation and inflammation**  
Mairi MacLeod (London, United Kingdom), Aaron Braddy-Green, Ralph Lopez, Philippa Webb, Logan Sun, Paras Dalal, Kristopher Knott, Simon Davies, M Rubens, Edward D Nicol, Anand Devaraj, Dorian O Haskard, Gavin C Donaldson, Ramzi Y Khamis, Jadwiga A Wedzicha
- 
- PA1335** **Impact of COPD on sympathetic drive**  
Binaya Regmi (Aachen, Germany), Faniry Ratsimba, Benedikt Jörn, Mehdi Senol, Oscar Gorol, Mustafa Elfeturi, Ayham Daher, Vaughan Macefield, Michael Dreher, Jens Spiesshoefer
- 
- PA1336** **Unrecognised coronary artery disease in COPD: a case for screening?**  
Mairi MacLeod (London, United Kingdom), Aaron Braddy-Green, Ralph Lopez, Paras Dalal, Kris Knott, Simon Davies, Michael Rubens, Edward D Nicol, Anand Devaraj, Dorian O Haskard, Gavin C Donaldson, Ramzi Y Khamis, Jadwiga A Wedzicha
- 
- PA1337** **Climatic conditions as an important factor in the development of symptoms and comorbidities in COPD**  
Eugenija Basioli Kasap (Zadar, Croatia), Martina Dokoza, Nataša Karamarković Lazarušić, Gordana Pavliša, Sanda Škrinjarić-Cincar
- 
- PA1338** **Association of leptin, adiponectin, and IL-8 gene polymorphism and serum biomarkers in COPD and COPD with T2DM in the north Indian population**  
Seema Singh (Lucknow, India), Santosh Kumar, Sk Verma
- 
- PA1339** **Analysis of ECG parameters associated with worse prognosis in patients with COPD**  
Martina Kulirova (Hradec Králové, Czech Republic), Miroslav Solar, Michal Kopecky, Barbora Novotna, Marek Plutinsky, Libor Fila, Petr Vanik, Pavlina Musilova, Tomas Dvorak, Petr Safranek, Michal Svoboda, Vladimir Koblizek
- 
- PA1340** **Exacerbation history and myocardial infarction in patients with chronic obstructive pulmonary disease (COPD) in Sweden**  
Oskar Wallström (Göteborg, Sweden), Fredrik Nyberg, Caroline Stridsman, Anne Lindberg, Lowie Vanfleteren
- 
- PA1341** **OBSTRUCTIVE PULMONARY DISEASE CORONAROPATHY RISK (COPDCORI) AND SYSTEMIC INFLAMMATION VALUES IN PATIENTS WITH COPD AFTER COMPLETION OF A PULMONARY REHABILITATION PROGRAMME.**  
Natalia González Florido (Málaga, Spain), Ana Muñoz Montiel, Pedro Ruiz Esteban, Adolfo Domenech Del Río, Miguel Ángel Sánchez Chaparro, Casilda Oliveira Fuster
- 
- PA1342** **Association of CAT and PHQ-9 scores for depression among COPD patients – a Philippine cohort.**  
Jermelyn Saron (Manila, Philippines), Guinevere Agra, Celeste Mae Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, Roland Panaligan, Tim Trinidad
- 
- PA1343** **The continuously evolved RE-SAMPLE cohort: predicting outcomes of COPD and comorbidities**  
Anke Lenferink (Oldenzaal, Netherlands), Charlotte Cecile Bucsán, M G J Brusse-Keizer
- 
- PA1344** **Correlation of FEV1 and Pulmonary artery hypertension among patients with COPD, presented to tertiary care hospital, Pakistan.**  
Saadia Ashraf (Peshawar, Pakistan), Sehrish Khan
- 
- PA1345** **Title: Is smoking associated with higher cardiovascular risk and increased unplanned acute medical attendance? A retrospective analysis from the Lung Cancer screening cohort**  
Rehab Haider (Shrewsbury, United Kingdom), Elizabeth Finn, Shabeena Zeb, Faraz Bharwana, Alice Fitzgerald, Sana Iftikhar, Imran Hussain
- 
- PA1346** **Which patient characteristics are associated with exercise-induced desaturation in COPD combined with hypertension?**  
Anastasiia Melenevych (Kharkiv, Ukraine)
- 
- PA1347** **The prevalence and clinical characteristics of COPD in patients with lung cancer**  
Ivana Canak (Sremska Kamenica, Republic of Serbia), Jelena Mikov, Goran Stojanovic, Nevena Secen, Ilija Andrijevic, Ivan Kopitovic, Nensi Lalic, Marija Vukoja
- 
- PA1348** **Exploring patterns of COPD exacerbations and comorbid flare-ups**  
Sanne H B van Dijk (Enschede, Netherlands), Marjolein G J Brusse-Keizer, Tanja Effing, Paul D L P M Van Der Valk, Eline H Ploumen, Job Van Der Palen, Carine J M Doggen, Anke Lenferink

12:45-13:45

INDUSTRY VIRTUAL SYMPOSIUM

SEE PAGE 1

12:45-13:45

## INDUSTRY LUNCHTIME SYMPOSIUM

SEE PAGE 1

Brown 1+2

Session 151

12:45 - 13:45

Joint session: Updates on inhalers for COPD and asthma

ERS / Industry joint session sponsored by AstraZeneca and Teva

Tag(s) : Clinical

Chairs : Frans H.C. De Jongh (Enschede, Netherlands), Antonio Spanevello (Milano, Italy)

12:45	<b>How to choose and use and inhaler</b> Omar S. Usmani (London, United Kingdom)	1361
12:55	<b>How to monitor and improve inhaler technique</b> Janwillem W. H. Kocks (Groningen, Netherlands)	1362
13:05	<b>How to assess and improve inhaler adherence</b> Federico Lavorini (Firenze (FI), Italy)	1363
13:15	<b>Q&amp;A session</b> All Speakers	1364

Gold

Session 154

13:45 - 15:15

State of the art session: Pulmonary vascular diseases

Chronic thromboembolic pulmonary hypertension: treating local complications of systemic disease?

**Aims :** to place recent insights into the molecular pathogenesis of chronic thromboembolic pulmonary hypertension (CTEPH) into the context of the existing state of the art knowledge of CTEPH and its implementation in current clinical guidelines; to answer the question is whether and how these insights into pathophysiology will change future treatment of CTEPH and determine prognosis and outcomes for patients; to discuss novel targets for treatment and improvements in pharmacological therapy

Disease(s) : Pulmonary vascular diseases

Method(s) : Cell and molecular biology Imaging Surgery

Tag(s) : Translational

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Pathologist, Scientist (basic, translational), Thoracic surgeon

Chairs : Olivier Sitbon (Le Kremlin-Bicêtre, France), Mona Lichtblau (Zürich, Switzerland), Judith Löffler-Ragg (Innsbruck, Austria)

13:45	<b>Novel molecular insight into the development of CTEPH</b> Jurjan Aman (Amsterdam, Netherlands)	1371
14:00	<b>The natural history of CTEPH</b> Marion Delcroix (Leuven, Belgium)	1372
14:15	<b>(Sub)segmental CTEPH should be treated by surgery</b> David Jenkins (Cambridge, United Kingdom)	1373
14:30	<b>(Sub)segmental CTEPH should be treated by balloon angioplasty</b> Xavier Jais (Le Kremlin-Bicêtre, France)	1374
14:45	<b>Discussion and Q&amp;A</b> All Speakers	1375

Silver

Session 155

13:45 - 15:15

Journal session: Highlights from the Journal of the American Medical Association

Global burden of long COVID, morphine for breathlessness in chronic obstructive pulmonary disease and autotaxin inhibitor treatment for idiopathic pulmonary fibrosis

**Aims :** to provide an update on the global burden of long COVID; to provide information about the use of morphine to treat breathlessness in patients with chronic obstructive pulmonary disease (COPD); to provide information about the effect of autotaxin inhibitor treatment on lung function in patients with idiopathic pulmonary fibrosis (IPF).

**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory infections**Method(s)** : Epidemiology General respiratory patient care**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training**Chairs** : Kristin Walter (Chicago, United States), Nicolas Roche (Paris, France)

13:45	<b>Global burden of long COVID</b> Merel Hellemons (Rotterdam, Netherlands)	1376
14:00	<b>Morphine for breathlessness in COPD</b> Magnus Ekström (Lund, Sweden)	1377
14:15	<b>Autotaxin inhibitor treatment for IPF</b> Marlies S. Wijzenbeek (Rotterdam, Netherlands)	1378
14:30	<b>Discussion and Q&amp;A</b> All Speakers	1379

## Coral 4+5 Session 156 13:45 - 15:15

### Symposium: Novel concepts for understanding mechanisms of chronic obstructive pulmonary disease initiation and progression

**Aims** : to present leading avenues of investigation that will enhance the participants' understanding of early COPD and its progression, relevant molecular disease endotypes and preventive as well as therapeutic strategies; to discuss current advances in our knowledge of COPD immune mechanisms; to discuss how the integration of cutting-edge technologies such as (spatial) single-cell RNA sequencing can help to find more efficient therapies; to discuss novel translational and (pre)clinical development for therapeutic strategies, as well as scientific advancements that may direct current and future therapeutic development; to explain the need for COPD classification and further biomarker discovery for patient 'endophenotyping'; to explain how changes in cell-cell interactions trigger molecular and pathological mechanisms responsible for disease onset and progression; to discuss how to use current advanced technologies to delineate novel targets for COPD drug discovery.

**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory critical care**Method(s)** : Cell and molecular biology Epidemiology Public health**Tag(s)** : Translational**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Patient, Scientist (basic, translational), Journalist**Chairs** : Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium)

13:45	<b>Introduction</b> Ali Oender Yildirim (Neuherberg, Germany)	1380
13:50	<b>Novel immune mechanisms of COPD initiation and progression</b> Francesca Polverino (Houston, United States)	1381
14:05	<b>Approaches to lung regeneration</b> Mareike Lehmann (Marburg, Germany)	1382
14:20	<b>Metabolic alterations in COPD that direct new treatment strategies</b> Suzanne Cloonan (Dublin, Ireland)	1383
14:35	<b>Translating resilience and pathogenesis to personalised therapy for COPD</b> Irina Petrache (Denver, United States)	1384
14:50	<b>Discussion and Q&amp;A</b> All Speakers	1385

## Coral 3 Session 157 13:45 - 15:15

### Hot topics: The unfortunate relationship between respiratory disease and infection: challenges which need us to think outside the box

**Aims** : to understand the molecular mechanism for either the higher likelihood of respiratory infection in chronic respiratory disease or the complications of pulmonary infection in patients with chronic diseases; to highlight the role of preventive measures, mainly vaccination.

**Disease(s)** : Airway diseases Paediatric respiratory diseases Respiratory infections**Method(s)** : General respiratory patient care**Tag(s)** : Translational**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Journalist**Chairs** : Daiana Stolz (Freiburg, Germany), Francesco Blasi (Milan, Italy)

13:45	<b>Sadoul lecture: Dr. Jekyll and Mr. Hyde: why respiratory infectious affect lung health so much?</b> Tobias Welte (Hannover, Germany)	1386
14:00	<b>Injuries in childhood are responsible for lung diseases later in life: the role of infection and allergy</b> Erika von Mutius (München, Germany)	1387
14:15	<b>Innate Immunity and Inflammation in the lungs, friends and foes</b> Alberto Mantovani (Pieve Emanuele (Milan), Italy)	1388
14:30	<b>Prevention is better than cure: why vaccination is a key to healthier lungs.</b> Peter Openshaw (London, United Kingdom)	1389
14:45	<b>Discussion and Q&amp;A</b> All Speakers	1390

**Coral 1** **Session 158** **13:45 - 15:15****Symposium: Acute respiratory distress syndrome: update and future treatment****Aims** : to describe the state of the art in acute respiratory distress syndrome (ARDS) and upcoming treatment options.**Disease(s)** : Respiratory critical care Respiratory infections**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist**Chairs** : João Carlos Winck (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)

13:45	<b>The new ARDS definition</b> Lorraine Ware (Nashville, United States)	1391
14:00	<b>The new European guideline in ARDS: nonpharmaceutical treatments</b> Christian Karagiannidis (Cologne, Germany)	1392
14:15	<b>The new European guideline in ARDS: pharmaceutical treatments and upcoming targets</b> Danny McAuley (Belfast (Belfast), United Kingdom)	1393
14:30	<b>Weansafe: how do we wean from mechanical ventilation?</b> Leo Heunks (Amsterdam, Netherlands)	1394
14:45	<b>Discussion and Q&amp;A</b> All Speakers	1395

**Coral 2** **Session 159** **13:45 - 15:15****Symposium: Better outcomes for adults with chronic breathlessness: earlier diagnosis and management****Aims** : to review healthcare pathways for people living with chronic breathlessness, from their first presentation to palliation, highlighting the role of integrated care throughout; to critically appraise research and clinical care evaluations of integrated diagnostic pathways for chronic breathlessness to achieve earlier diagnosis and treatment; to discuss the role of artificial intelligence in diagnostic pathways for chronic breathlessness; to review the role of nonpharmacological management for chronic breathlessness including the multidisciplinary team and rehabilitation; to discuss specific causes of breathlessness, such as breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse, and their respective management for clinicians to appropriately diagnose and manage breathlessness; to describe complex interventions for distressing breathlessness including breathlessness support services.**Disease(s)** : Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Method(s)** : General respiratory patient care Palliative care Pulmonary rehabilitation**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist, Journalist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Thomas Gille (Bobigny, France)

13:45	<b>Patient's perspective</b> Alistair Drummond (Hemel Hempstead, United Kingdom)	1396
13:50	<b>Earlier diagnosis to earlier treatment for people living with chronic breathlessness</b> Rachael A. Evans (Leicester (Leicestershire), United Kingdom)	1397
14:05	<b>Nonpharmacological management of chronic breathlessness including rehabilitation and the multidisciplinary team</b> William Man (Harefield, United Kingdom)	1398
14:20	<b>Special considerations in complex breathlessness: breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse</b> Thomas Halvorsen (Bergen, Norway)	1399
14:35	<b>Integrated breathlessness support services: what are they and what should they include?</b> Daisy J.A. Janssen (Horn, Netherlands)	1400
14:50	<b>Discussion and Q&amp;A</b> All Speakers	1401

## Purple Session 160 13:45 - 15:15

### Symposium: Air pollution, pollen and lung health in the climate change era

**Aims :** to provide insight into the associations between air pollution/pollen exposures and respiratory health, and to enable clinicians and researchers to tackle the increase in environment-induced diseases emerging with climate change; to describe current knowledge about pollen and air pollution exposures and respiratory allergies and asthma; to explain methodological pitfalls when investigating the effects of pollens and other pollutants; to expand knowledge of air pollution and respiratory health in children; to summarise the role of sex and gender in respiratory immune responses to emerging environmental inhalant threats.

Specifically, the session aims are: 1) To describe current knowledge about pollen and air pollution exposures and respiratory allergies and asthma; 2) To explain methodological pitfalls when investigating effects of pollens and other pollutants; 3) To expand knowledge on air pollution and respiratory health in children; 4) To summarize the role of sex and gender on respiratory immune response to emerging environmental inhalant threats.

The proposed symposium connects important priority areas of Assembly 6 (1. Determinants (including airborne pollutants) of lung health in non-smoking adults; 2. Air pollution, emission sources, desert dust storms and climate change: impact on lung health; 3. Towards chronic respiratory disease prevention through occupational and environmental exposure management) to those of other assemblies, such as Assembly 1 (an aging lung: respiratory disease in elderly), Assembly 3 (mechanisms responsible for progression of pulmonary diseases) and Assembly 7 (childhood onset lung disease into adulthood). Appeal and relevance to the broad range of ERS constituents has been carefully built into this proposal.

**Disease(s) :** Airway diseases Respiratory infections

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy), Christopher Carlsten (Vancouver (BC), Canada)

13:45	<b>Pollen exposure, respiratory allergy and asthma: what do we know so far?</b> Adrian Lowe (Parkville, Australia)	1402
14:00	<b>Short-term effects of exposure to pollens and other air pollutants: methodological insights for researchers and clinicians</b> Antonio Gasparini (London, United Kingdom)	1403
14:15	<b>Air pollution and paediatric respiratory health: little particles and little lungs</b> Jonathan Grigg (London, United Kingdom)	1404
14:30	<b>Sex as a modifier of effects of the environment and occupation on respiratory disease</b> Meghan Rebuli (Chapel Hill, United States)	1405
14:45	<b>Discussion and Q&amp;A</b> All Speakers	1406

14:00-14:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

Red 1+2

Session 163

14:15 - 15:30

Oral presentation: Biological treatments for asthma: a new era in severe asthma management

Disease(s) : [Airway diseases](#)

Method(s) : General respiratory patient care Cell and molecular biology Endoscopy and interventional pulmonology Physiology

Tag(s) : Clinical

Chairs : Lena Uller (Lund, Sweden), Apostolos Bossios (Stockholm, Sweden)

**OA1412 Late Breaking Abstract - Phase I safety and tolerance study of the inhalable anti IL-4R $\alpha$  single domain antibody, LQ036, demonstrates promising clinical profile to treat asthma**  
Yakun Wan (Shanghai, China), Junwei Gai, Min Zhu, Huaiyu Gu, Zhenzhen Deng, Jing Huang

**OA1413 Bronchial submucosal eosinophils predict clinical remission better than blood eosinophils and FeNO in severe uncontrolled asthma treated with biological therapy**  
Hanaa Shafiek (Alexandria, Egypt), Amanda Iglesias, Mar Mosteiro, Ines Escribano, Nuria Toledo-Pons, Cristina Gomez, Jacinto Ramos, Luis Perez De Llano, Fco.De Borja Garcia-Cosio Piqueras

**OA1414 Non-T2 cytokines post Benralizumab associate with residual symptoms**  
Manali Mukherjee (Hamilton (ON), Canada), Chynna Huang, Kayla Zhang, Xiaotian Ju, Melanie Kjarsgaard, Carmen Venegas-Garrido, Katherine Radford, Anurag Bhalla, Kiho Son, Sylvia Lauks, Nicola Calma, Sarah Svenningsen, Paul O'Byrne, Roma Schmi, Parameswaran Nair

**OA1415 Biomarkers and clinical outcomes after cessation of tezepelumab after 2 years of treatment (DESTINATION)**  
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), David Jackson, Ales Kotalik, Nestor A Molfino, Scott Caveney, Gene Colice, Neil Martin, Elliot Israel, Ian D Pavord, Michael E Wechsler, Celeste Porsbjerg

**OA1416 Long-Term Dupilumab Efficacy in Patients with Type 2 Asthma by Age of Onset: LIBERTY ASTHMA TRAVERSE**  
William Busse (Madison, United States), Monica Kraft, Christian Domingo, Ines De Mir, Diego J. Maselli, Xavier Soler, Changming Xia, Nami Pandit-Abid, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz

**OA1417 Tezepelumab can restore normal lung function in patients with severe, uncontrolled asthma**  
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Christopher E Brightling, Stephanie Korn, Nicole Martin, Sandhia Ponnarambil, Nestor A Molfino, Jane R Parnes, Bill Cook, Christopher S Ambrose

**OA1418 The proportion of patients achieving low biomarker levels with tezepelumab treatment in the phase 3 NAVIGATOR study**  
David J Jackson (London, United Kingdom), Ian D Pavord, J Christian Virchow, Jane R Parnes, Amgad Gamil, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Michael E Wechsler

**OA1419 Changes in serum total IgE after cessation of tezepelumab after 2 years of treatment (DESTINATION)**  
Marco Caminati (Verona (VR), Italy), Jean-Pierre Llanos, Joseph D Spahn, Ales Kotalik, Gene Colice, Sandhia Ponnarambil, Neil Martin, Santiago Quirce, Jonathan Corren

**OA1420 Durability of Benralizumab-induced remission in severe asthma: an analysis of the BORA study**  
Marek Lommatzsch (Rostock, Germany), Anat Shavit, Anaud Bourdin, Justin Kwiatek, David Cohen, Delphine Leynaud, Andrew Menzies-Gow

**OA1421 Parasitic Infections and Biological Therapies Targeting Type 2 Inflammation: a Vigibase® Study.**  
Laurent Guillemainault (Toulouse Cedex, France), François Montastruc, Laurent L. Reber, Jean-François Magnaval, Philippine Lifar

**OA1422 Discussion and Q&A**  
All Speakers

Brown 3

Session 164

14:15 - 15:30

Oral presentation: Novel research impacting clinical practice in interstitial lung disease

Disease(s) : [Interstitial lung diseases](#)

Method(s) : Epidemiology General respiratory patient care Surgery Pulmonary function testing Endoscopy and interventional pulmonology Imaging

Tag(s) : Clinical

Chairs : Wim A. Wuyts (Leuven, Belgium), Athina Trachalaki (London, United Kingdom)



- OA1423** **Late Breaking Abstract - Safety, tolerability and antifibrotic activity of bexotegrast: Phase 2a INTEGRIS-IPF study (NCT04396756)**  
Wim A. Wuyts (Leuven, Belgium), Claudia Valenzuela, Gisli Jenkins, Jonathan G Goldin, Grace Hyun J Kim, Marzena Jurek, Scott Turner, Martin Decaris, Chris N Barnes, Eric Lefebvre, Gregory Cosgrove, Vincent Cottin
- OA1424** **Nationwide All ILD registry with central MDD in Japan; Providing Multidisciplinary ILD diagnoses (PROMISE) study.**  
Taiki Furukawa (Nagoya (Aichi), Japan), Yasuhiro Kondoh, Shintaro Oyama, Ryo Teramachi, Hironao Hozumi, Takafumi Suda, Tomoyuki Fujisawa, Ryoko Egashira, Takeshi Johkoh, Junya Fukuoka, Kensuke Kataoka, Hideya Kitamura, Osamu Nishiyama, Masaki Okamoto, Naoki Koshimizu, Nobuhisa Ishikawa, Satoshi Okamori, Yasunari Miyazaki, Masashi Bando, Yoshikazu Inoue, Takashi Ogura, Masataka Kuwana, Hiromi Tomioka, Yasuhiko Nishioka, Hirofumi Chiba, Masahito Ebina, Kazuya Ichikado, Yoichi Nakanishi, Naozumi Hashimoto, Yoshimune Shiratori, Yoshinori Hasegawa, Makoto Ishii, . The Providing Multidisciplinary Ild Diagnoses [promise] Study Group
- OA1425** **Experience of making early interstitial lung disease diagnosis from patients taking part in UK national pilot lung screening programme.**  
Daniel Trushell-Pottinger (Doncaster, United Kingdom), Ailsa Holbourn, Kiran Nandakumar, Jason Page, Sue Matthews, Abdul Nasimudeen, Moe Kyi
- OA1426** **Use of 1.1-mm probes in transbronchial lung cryobiopsy for diagnosing interstitial lung diseases: a randomized trial**  
Gang Hou (Beijing, China), Yiding Bian, Mingming Deng
- OA1427** **Electronic nose technology differentiates interstitial lung diseases from other chronic respiratory diseases**  
Iris G. van der Sar (Rotterdam, Netherlands), Marlies S. Wijssenbeek, Gert-Jan Braunstahl, Jason O. Loekabino, Annemarie C. Dingemans, Johannes C. C. M. In 'T Veen, Catharina C. Moor
- OA1428** **Development and validation of a nomogram for predicting pulmonary complications after curative resection in idiopathic pulmonary fibrosis patients with early stage lung cancer**  
Yunjo Im (Seoul, Republic of Korea), Hongseok Yoo
- OA1429** **Telemedicine in patients with Idiopathic Pulmonary Fibrosis**  
Matteo Davi (Ancona, Italy), Claudia Duranti, Lina Zuccatosta, Federico Mei, Martina Bonifazi
- OA1430** **The clinical frailty scale is associated with progression of fibrotic interstitial lung disease – a multicentre cohort study.**  
Sabina A. Guler (Bern, Switzerland), Daniel-Costin Marinescu, Gerard Cox, Celine Durand, Jolene H. Fisher, Amanda Grant-Orser, Gillian C. Goobie, Nathan Hambly, Kerri A. Johannson, Nasreen Khalil, Martin Kolb, Stacey Lok, Sarah Macisaac, Helene Manganas, Veronica Marcoux, Julie Morisset, Ciaran Scallan, Shane Shapera, Kelly Sun, Boyang Zheng, Christopher J. Ryerson, Alyson W. Wong
- OA1431** **Patient reported assessment of swallowing and throat symptoms and reflux in patients with idiopathic pulmonary fibrosis**  
amal alamer (NEWCASTLE UPON TYNE, United Kingdom), Amal Alamer, Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson
- OA1432** **Buccal microbiome and survival in idiopathic pulmonary fibrosis: CleanUP-IPF**  
John Kim (Charlottesville, United States), Promi Das, Shwu-Fan Ma, Piyush Ranjan, Yong Huang, Kevin Anstrom, David O'Dwyer, Fernando Martinez, Jack Gilbert, Imre Noth
- OA1433** **Discussion and Q&A**  
All Speakers

Brown 1+2

Session 165

14:15 - 15:30

Oral presentation: Latest research on paediatric asthma

Disease(s) : [Airway diseases](#)

Method(s) : General respiratory patient care Cell and molecular biology Physiology Pulmonary function testing Epidemiology Public health

Tag(s) : Clinical, Translational

Chairs : Angela Zacharasiewicz (Wien, Austria), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

- OA1434** **Late Breaking Abstract - Gut microbiota maturity in infancy and atopic wheeze in childhood.**  
Yuan Gao (Geelong, Australia), Yuan Gao, Martin O'Hely, Mimi Lk Tang, Sarath Ranganathan, Leonard C.Harrison, Peter Vuillermin
- OA1435** **The ERS CRC Severe Paediatric Asthma Collaborative in Europe: asthma control in Children on Biologics**  
Norrice Liu (London, United Kingdom), Marielle W.H. Pijnenburg, Antoine Deschildre, Silvia Carraro, Grazia Fenu, Valentina Ferraro, Louise L. Fleming, Laurence Hanssens, Amelia Licardi, Enrico Lombardi, Jose Valverde Molina, Anouk Vierhout, Ines De Mir, Franca Rusconi

- OA1436** **How much change in FEV1 is associated with an increased risk of an asthma exacerbation?**  
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Nicole Filipow, Francoise Vermeulen, Robin Vael, Thomas Frischer, Anne Chang, Helen Petsky, Stanley Szeffler, Sanja Stanojevic
- 
- OA1437** **Exhaled metabolite profiling for asthma control classification in children: results from the SysPharmPediA study**  
Shahriyar Shahbazi Khamas (Amsterdam, Netherlands), Yoni Van Dijk, Mahmoud I Abdel-Aziz, Anne H Neerinx, Susanne Jh Vijverberg, Simone Hashimoto, Mario Gorenjak, Antoaneta A. Toncheva, Susanne Harner, Susanne Brandstetter, Christine Wolff, Anna Hedman, Catarina Almqvist, Paula Corcuera-Elosegui, Javier Korta-Murua, Olaia Sardón-Prado, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D Kraneveld, Paul Brinkman, Anke-Hilse Maitland - Van Der Zee
- 
- OA1438** **Lung function fluctuation patterns may unveil distinct clinical phenotypes in asthmatic children**  
Sotirios Fouzas (Patras, Greece), Eirini - Sofia Frima, Nikolaos Karantaglis, Dimos Gidaris, Grigorios Chatziparasidis, Ilias Theodorakopoulos, Aris Bertzouanis, Michael Anthracopoulos, Urs Frey, Edgar Delgado - Eckert
- 
- OA1439** **Prematurity-associated lung disease is frequently mis-diagnosed as asthma**  
Tiffany Bradshaw (Perth, Australia), Denby Evans, Rhea Urs, Elizabeth Smith, Shannon Simpson
- 
- OA1440** **Sphingolipid classes and the interrelationship with pediatric asthma risk factors and clinical asthma phenotypes**  
Craig Wheelock (Stockholm, Sweden), Yulu Chen, Antonio Checa, Pei Zhang, Mengna Huang, Rachel Kelly, Min Kim, Yih-Chieh Chen, Kathleen Lee-Sarwar, Nicole Prince, Kevin Mendez, Sofina Begum, Priyadarshini Kachroo, Su Chu, Jakob Stokholm, Klaus Bønnelykke, Augusto Litonjua, Hans Bisgaard, Scott Weiss, Bo Chawes, Jessica Lasky-Su
- 
- OA1441** **Prediction of adult asthma-risk in early childhood using novel Adult aSthma Predictive Risk scorEs (ASPIRE)**  
Ramesh J. Kurukulaaratchy (Newport (Hants), United Kingdom), Hasan Arshad, Abd Farhan, Dilini Kothalawala, Raquel Granell, Angela Simpson, Clare Murray, Adnan Custovic, Graham Roberts, Hongmei Zhang, Ramesh Kurukulaaratchy
- 
- OA1442** **Evaluation of early life factors and childhood persistent airflow limitation in severe asthma**  
Sormeh Salehian (London, United Kingdom), Cara Bossley, Andrew Bush, Sejal Saglani, Louise Fleming
- 
- OA1443** **Dynamic network of symptom-trajectories in infancy predicts wheezing disorders at later age**  
Uri Nahum (Basel, Switzerland), Olga Gorlanova, Fabienne Decrue, Heide Oller, Edgar Delgado Eckert, Andreas Böck, Sven Schulzke, Philipp Latzin, Bianca Schaub, Erika Von Mutius, Urs Frey
- 
- OA1444** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 166

14:15 - 15:30

**Oral presentation: Untangling the molecular footprints in lung cancer diagnosis and treatment****Disease(s)** : Thoracic oncology**Method(s)** : Cell and molecular biology General respiratory patient care**Tag(s)** : Clinical, Translational**Chairs** : Rainer G. Wiewrodt (Münster, Germany), Maria Joana Pereira Catarata (Porto, Portugal)

- OA1445** **Integrated multi-omics unraveled a basal cell-dependent signature predictor of outcome and immunotherapy response in LUSC**  
Jianlong Jia (Munich, Germany), Ruonan Liu, Benteng Deng, Xuanze Guo, Lilith Trassl, Georgia Giotopoulou, Sabine Behrend, Yang Liu, Ali Yildirim, Georgios Stathopoulos, Andrea Schamberger, Isis Fernandez
- 
- OA1446** **1G6-D7 regulates the extracellular heat shock protein 90 involved in DNA damage repair affecting tumor immunity in non-small cell lung cancer**  
Jiangzhou Du (Guangzhou, China), Hangming Dong
- 
- OA1447** **IL-17A induces EGFR-targeted therapy resistance via enhancing EGFR activation in lung cancer**  
Kai Ling Lee (Taipei, Taiwan), Chi-Li Chung, Ming-Hsien Chien
- 
- OA1449** **Validation of a 5-gene signature for predicting outcomes in early-stage NSCLC patients**  
Rui Reis (Barretos, Brazil), Keila Cristina Miranda, Alexia Polo Siqueira, Maria Fernanda Santiago Gonçalves, Isabella Lemuqui Tegami, Icaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Vinicius Duval Silva, Sabrina Setembre Batah, Heloisa Acurcio Zimmermam, Alexandre Todorovic Fabro, Conceição Souto-Moura, Susana Guimarães, Fátima Carneiro, Cláudia Freitas, Helder Novais E Bastos, Luciane Sussuchi Da Silva, Rui Manuel Reis, Letícia Ferro Leal
- 
- OA1450** **The role of CD137-CD137L and CD200-CD200L pathways in the regulation of tumor immune microenvironment.**  
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Agata Raniszewska, Rafał Sokołowski, Karina Jahnz- Różyk, Piotr Rzepecki

- OA1451** **Reproducibility of a 12-gene set for predicting outcome and benefit from ACT in early-stage NSCLC patients**  
Rui Reis (Barretos, Brazil), Alexia Polo Siqueira, Maria Fernanda Santiago Gonçalves, Isabella Lemuqui Tegami, Keila Cristina Miranda, Ícaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Rachid Eduardo Noletto Da Nobrega, Vinicius Duval Da Silva, Sabrina Setembre Batah, Heloisa Acurcio Zimmermann, Alexandre Todorovic Fabro, Conceição Souto-Moura, Susana Guimarães, Fátima Carneiro, Cláudia Freitas, Helder Novais E Bastos, Ignacio Wistuba, Yang Xie, Luciane Sussuchi Da Silva, Rui Manuel Reis, Leticia Ferro Leal
- 
- OA1452** **Circulating extracellular vesicles in the identification of immune checkpoint associated with lung cancer**  
Maureen Cambier (Liège, Belgium), Gaëlle Vanderstichelen, Claire Remacle, Monique Henket, Hadrien Gillet, Barbara Polese, Anne Sibille, Renaud Louis, Julien Guiot, Ingrid Struman
- 
- OA1453** **The predictors of lung injury during durvalumab maintenance therapy following concurrent chemoradiotherapy in unresectable locally advanced non-small cell lung carcinoma**  
Nobuyuki Hiram (Kanagawa, Japan), Masaki Yamamoto, Satoshi Nagaoka, Yukihiro Kajita, Chisato Maeda, Sousuke Kubo, Kenichi Seki, Yoshinori Nagahara, Shuhei Teranishi, Ken Tashiro, Makoto Kudo, Takeshi Kaneko
- 
- OA1454** **Discussion and Q&A**  
All Speakers

## Yellow 1+2+3

## Session 167

14:15 - 15:30

## Oral presentation: Bronchiectasis

Disease(s) : **Airway diseases**

Method(s) : General respiratory patient care Imaging Cell and molecular biology

Tag(s) : Clinical

Chairs : Michael Loebinger (London, United Kingdom), Pieter Goeminne (Bornem, Belgium)

- OA1455** **Late Breaking Abstract - Bronchoalveolar lavage amylase level as a promising biomarker of aspiration: a multicenter cross-sectional clinical study**  
Lianjun Lin (Beijing, China), Ruixue Zhang, Yeliang Wen, Kun Wang, Dong Xu, Haixia Li, Zhi Zhang, Yiqun Wu, Shiyue Li
- 
- OA1456** **Neutrophil metabolomics in bronchiectasis: data from the EMBARC BRIDGE study**  
Amelia Shoemark (Dundee (Angus), United Kingdom), Yan Hui Giam, Amy Gilmour, Merete B Long, Holly R Keir, Thomas Pembridge, Chloe Hughes, Rebecca C Hull, Eve Mcintosh, Holly Lind, Megan L Crichton, Eva Polverino, Stefano Aliberti, Francesco Blasi, Pieter C Goeminne, Tobias Welte, Josje Altenburg, Michal Shteinberg, James D Chalmers
- 
- OA1457** **Blood eosinophils, inhaled corticosteroids and exacerbations in bronchiectasis: Data from the EMBARC registry**  
Jennifer Pollock (Dundee, United Kingdom), Eva Polverino, Megan L. Crichton, Pierre Regis-Burgel, Charles Haworth, Katerina Dimakou, Michael R. Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Anthony De Soya, Montserrat Vendrell, Stuart J. Elborn, Amelia Shoemark, Stefano Aliberti, Pieter Goeminne, James D. Chalmers
- 
- OA1458** **Validation of the Rose Criteria for COPD-Bronchiectasis Overlap: Data from the European Bronchiectasis Registry (EMBARC)**  
Letizia Traversi (Cittiglio, Italy), Eva Polverino, Pierre-Regis Burgel, Charles Haworth, Katerina Dimakou, Michael Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Antony De Soya, Montserrat Vendrell, Amelia Shoemark, Josje Altenburg, Wim Boersma, Stuart Elborn, Stefano Aliberti, Pieter C. Goeminne, James Chalmers
- 
- OA1459** **Treatment with the dipeptidyl peptidase-1 inhibitor brensocatic increases the antimicrobial peptide secretory leukocyte peptidase inhibitor (SLPI) in patients with bronchiectasis: results from the WILLOW trial**  
Lidia Perea (Barcelona, Spain), Emma Johnson, Carlos Fernandez, Kevin Mange, Ariel Teper, Holly R Keir, Oriol Sibila, Amelia Shoemark, James D Chalmers
- 
- OA1460** **Bronchiectasis and mortality in smokers with distinct spirometric phenotypes**  
Alejandro A Diaz (Arlington, United States), Jose L Orejas, Rim Elalami, Wojciech R Dolliver, Pietro Nardelli, Ruben San Jose Estepar, Bina Choi, Carrie Pistenmaa, James C Ross, Diego J Maselli, Andrew Yen, Michael H Cho, Raul San Jose Estepar
- 
- OA1461** **qPCR and 16S rRNA marker-gene sequencing as endpoints for clinical trials of antimicrobials: iBEST study**  
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisli G Einarsson, Andrew J Lee, Aya Alkhatib, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malaterre, Michael R Loebinger, James D Chalmers, Francesco Blasi, Charles S Haworth, J Stuart Elborn

**OA1462 Anxiety, depression and bronchiectasis outcomes: Data from the BronchUK study**  
Jennifer Pollock (Dundee, United Kingdom), Tess Saunders, Georgina Wild, Phil Mawson, Martin Kelly, Stuart Elborn, Adam T. Hill, Tim Gatheral, Anita Sullivan, Charles Haworth, John R. Hurst, Jeremy Brown, Mary Carroll, Vidya Navaratnam, Michael R. Loebinger, Gareth Davies, Judy Bradley, Paul P. Walker, John Steer, Jamie Duckers, Megan L. Crichton, James D. Chalmers, Richard McNally, Anthony De-Soyza

**OA1463 Genetic diversity of *Pseudomonas aeruginosa* virulence factors in bronchiectasis**  
Rebecca C Hull (Dundee, United Kingdom), Amy Gilmour, Eve Mcintosh, Pieter C Goeminne, Charles Haworth, Holly R Keir, Merete B Long, James D Chalmers

**OA1464 Bronchiectasis and cardiovascular risk: a systematic review and meta-analysis**  
Ivan Barone (MILANO, Italy), Andrea Gramegna, Crizia Colombo, Antonella Arcadu, Emilia Privitera, Gianfranco Alicandro, Francesco Amati, Marco Vicenzi, Stefano Aliberti, Francesco Blasi

**OA1465 Discussion and Q&A**  
All Speakers

## Amber 1+2 Session 168 14:30 - 16:50

### Skills workshop: SW3 Pulmonary rehabilitation: extending practice to improve health outcomes A personalised medicine approach

**Aims :** to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Rainer Gloeckl (Schoenau am Koenigssee, Germany)

14:30	<b>Introduction</b> All Speakers	1466
14:30	<b>Physical activity assessment and intervention</b> Heleen Demeyer (Leuven, Belgium)	1467
14:30	<b>Neuromuscular electrical stimulation: in who and how?</b> Lorna Latimer (Rugby (Warwickshire), United Kingdom)	1468
14:30	<b>How to improve balance and reduce falls in people undergoing pulmonary rehabilitation</b> Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom)	1469
14:30	<b>Implementing mindfulness interventions into pulmonary rehabilitation</b> Ingeborg Farver-Vestergaard (Vejle, Denmark)	1470

## Amber 3+4 Session 169 14:30 - 16:50

### Skills workshop: SW18 Cardiac ultrasound in the management of pulmonary disease

**Aims :** Develop a rigorous and systematic approach in performing and analyzing cardiac ultrasound parameters in respiratory disease. Explain systolic function, diastolic function, right heart dysfunction during COPD patients, the management of pulmonary embolism. Explain the hemodynamic consequences of non-invasive ventilation and propose an echocardiographic monitoring for the best settings of non-invasive ventilation. Develop knowledge and understanding of echocardiographic parameters in patients with COPD, pulmonary embolism or requiring non-invasive ventilation.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care

**Tag(s) :** Clinical

**Chairs :** Bouchra Lamia (Le Havre, France)

14:30	<b>Introduction</b> All Speakers	1471
14:30	<b>Assessment of diastolic function in COPD patients</b> Valentina Mercurio (Napoli, Italy)	1472

14:30	<b>Cardiac ultrasound assessment of right heart function</b> Paul M. Hassoun (Baltimore, United States)	1473
14:30	<b>Cardiac ultrasound for the management of pulmonary embolism</b> Mario Gerges (Vienna, Austria)	1474
14:30	<b>Hemodynamic consequences of non-invasive ventilation</b> Bouchra Lamia (Le Havre, France)	1475

## Gold Session 170 15:30 - 17:00

### Clinical cases: Lungs on fire: pulmonary vascular diseases?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Pulmonary vascular diseases Interstitial lung diseases Respiratory critical care

**Tag(s) :** Clinical

**Chairs :** Mona Lichtblau (Zürich, Switzerland), Olivier Sitbon (Le Kremlin-Bicêtre, France), Judith Löffler-Ragg (Innsbruck, Austria)

**Discussants :** Silvia Ulrich (Zurich, Switzerland), David Jiménez Castro (Madrid, Spain)

15:30	<b>Case 1 incl. panel discussion and Q&amp;A - Author: V. Stamatopoulou (Greece)</b> Silvia Ulrich (Zurich, Switzerland)	1476
15:52	<b>Case 2 incl. panel discussion and Q&amp;A - Author: S. Singh (India)</b> David Jiménez Castro (Madrid, Spain)	1477
16:14	<b>Case 3 incl. panel discussion and Q&amp;A - Author: L. Power (Ireland)</b> Silvia Ulrich (Zurich, Switzerland)	1478
16:36	<b>Case 4 incl. panel discussion and Q&amp;A - Author: A. Moin (United States of America)</b> David Jiménez Castro (Madrid, Spain)	1479

## Coral 4+5 Session 172 15:30 - 17:00

### Symposium: Novel aspects of T helper 17 cells in lung diseases

**Aims :** to introduce respiratory fellows and clinical, basic and translational researchers to the emerging role of interleukin-17 and T helper 17 (Th17) cells in lung diseases.

**Disease(s) :** Airway diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Translational

**Target audience :** Clinical researcher, Medical Student, Scientist (basic, translational)

**Chairs :** Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece)

15:30	<b>The principal immunology of Th17 cells in the lungs</b> Jay Kolls (New Orleans, United States)	1489
15:45	<b>Th17 in the interplay of microbiome with airway infections</b> Speaker to be confirmed	1490
16:00	<b>Th17-associated cytokines in obstructive airway diseases</b> Qutayba Hamid (Montréal (QC), Canada)	1491
16:15	<b>The role of Th17 in sarcoidosis and interstitial lung diseases</b> Antje Prasse (Hannover, Germany)	1492
16:30	<b>Discussion and Q&amp;A</b> All Speakers	1493

## Coral 3 Session 173 15:30 - 17:00

### Hot topics: Community-acquired infections: what is changing?

An update in the field of respiratory infections is needed due to changing epidemiology and new developments in prevention and treatment

**Aims :** to provide an update in the field of respiratory infections, which is needed due to changing epidemiology and new developments in prevention and treatment; to explain the observed changes in the epidemiology of community-acquired infections; to review the management of pneumonia in immunocompromised patients; to discuss the recent updates in vaccination and management of pleural infection.

**Disease(s) :** Respiratory critical care Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Respiratory physiotherapist

**Chairs :** Daiana Stolz (Freiburg, Germany), Francesco Blasi (Milan, Italy)

15:30	<b>The changing epidemiology of community-acquired pneumonia in the ageing population</b> Catia Cilloniz Campos (Barcelona, Spain)	1494
15:45	<b>The new challenges of pneumonia in immunocompromised patients</b> Scott Evans (Houston, United States)	1495
16:00	<b>How vaccines can reduce the impact of respiratory infections</b> Tobias Welte (Hannover, Germany)	1496
16:15	<b>Updating the management of pleural infections: from prognostic scores to novel fibrinolytic agents</b> Eihab Bedawi (Sheffield, United Kingdom)	1497
16:30	<b>Discussion and Q&amp;A</b> All Speakers	1498

## Coral 1 Session 174 15:30 - 17:00

### Symposium: Targeting treatable traits in severe chronic obstructive pulmonary disease: a nonpharmacological approach

**Aims :** to explain the global burden and challenges of chronic obstructive pulmonary disease (COPD); to provide an update on ‘treatable traits’ for advanced COPD patients beyond ‘regular care’, covering advanced care planning, pulmonary rehabilitation, lung volume reduction and other innovative bronchoscopic modalities, chronic noninvasive ventilation and lung transplantation; to provide an update on the latest insights into new innovative treatment options for severe COPD patients; to advocate the use of a multidisciplinary team meeting for management of severe COPD patients.

**Disease(s) :** Airway diseases Sleep and breathing disorders

**Method(s) :** Endoscopy and interventional pulmonology Pulmonary rehabilitation Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist

**Chairs :** João Carlos Winck (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)

15:30	<b>Patient's perspective</b> Chantal Davies (Chislehurst KENT, United Kingdom), Cathrien Franke-Bax (, Netherlands)	1499
15:37	<b>Home mechanical ventilation in stable and postacute COPD: when, how and why</b> Nicholas Hart (London, United Kingdom)	1500
15:52	<b>High-flow therapy in COPD: from acute care to home</b> Lara Pisani (Bologna (BO), Italy)	1501
16:07	<b>Innovative bronchoscopic treatment modalities for COPD</b> Konstantina Kontogianni (Heidelberg, Germany)	1502
16:22	<b>Pulmonary rehabilitation in severe and very severe COPD</b> Frits M.E. Franssen (Maastricht, Netherlands)	1503
16:37	<b>Discussion and Q&amp;A</b> All Speakers	1504

## Coral 2 Session 175 15:30 - 17:00

### Symposium: An ageing lung: respiratory disease in the elderly

**Aims :** to explain the cellular, structural and functional changes that take place in the ageing lung; to evaluate the physiological and immunological changes in elderly patients with chronic obstructive pulmonary disease and interstitial lung disease compared with their healthy age-matched counterparts; to familiarise participants with the diagnostic approach as well as the available therapeutic interventions to combat the consequences of the ageing lung; to explain chronic respiratory diseases across the life course and their associations with frailty.

**Disease(s) :** Airway diseases Interstitial lung diseases

**Method(s) :** Cell and molecular biology Physiology Pulmonary function testing

**Tag(s) :** Clinical, Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Thomas Gille (Bobigny, France)

15:30	<b>Cellular changes in the aging lung</b> Melanie Konigshoff (Pittsburgh, United States)	1505
15:45	<b>Respiratory function in the ageing respiratory system</b> Georgios Kaltsakas (Athens, Greece)	1506
16:00	<b>Age-related diseases and chronic respiratory diseases</b> Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)	1507
16:15	<b>Frailty transitions among patients with chronic respiratory diseases</b> Lies Lahousse (Ghent, Belgium)	1508
16:30	<b>Discussion and Q&amp;A</b> All Speakers	1509

## Purple Session 176 15:30 - 17:00

### Symposium: Pollution, climate changes and sustainable developments

**Aims :** to focus on our knowledge of pollution, climate changes and health effects and how to manage sustainable developments.

**Disease(s) :** Airway diseases Paediatric respiratory diseases Thoracic oncology

**Method(s) :** Epidemiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Journalist

**Chairs :** Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy), Christopher Carlsten (Vancouver (BC), Canada)

15:30	<b>Why fighting against air pollution and climate change is paramount for planetary health</b> Maria Neira (Geneva, Switzerland)	1510
15:45	<b>The striking scientific evidence of air pollution's health effects in children and adults</b> Zorana Andersen (Frederiksberg, Denmark)	1511
16:00	<b>Quantifying the morbidity of polluted air</b> Francesco Forastiere (Roma (RM), Italy)	1512
16:15	<b>The respiratory health benefits of improved urban exposures</b> Erik Melén (Stockholm, Sweden)	1513
16:30	<b>Discussion and Q&amp;A</b> All Speakers	1514

## 15:30-16:15

### INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

## Red 1+2 Session 179 15:45 - 17:00

### Oral presentation: Phenotypes and biomarkers in asthma

**Disease(s) :** Airway diseases**Method(s) :** Imaging Physiology Pulmonary function testing Epidemiology Public health General respiratory patient care Cell and molecular biology**Tag(s) :** Translational**Chairs :** Fabio L. M. Ricciardolo (Torino, Italy), Chair to be confirmed

- OA1523 Late Breaking Abstract - Seasonal variation in nasal epithelium gene expression**  
Tatiana Karp (Groningen, Netherlands), Alen Faiz, Huib A. M. Kerstjens, Martijn C. Nawijn, Yidan Sun, Elin T. G. Kersten, Gerard H. Koppelman, Monica Kraft, Bianca Beghé, Klaus F. Rabe, Maxim Kotz, Alberto Papi, Chris E. Brightling, Dave Singh, Thys Van Der Molen, Salman Siddiqui, Victor Guryev, Maarten Van Den Berge
- 
- OA1524 Impact of ERS/ATS 2022 BDR criteria on the characteristics of patients with airways disease**  
Rod Hughes (Sheffield (South Yorkshire), United Kingdom), Richard Beasley, Eleni Rapsomaniki, Hana Müllerová, Alberto Papi
- 
- OA1525 Cluster analysis to identify distinct clinical asthma phenotypes within ATLANTIS**  
Pauline Kuks (Groningen, Netherlands), Tatiana Karp, Jorine Hartman, Monica Kraft, Salman Siddiqui, Leonardo Fabbri, Klaus Rabe, Alberto Papi, Chris Brightling, Dave Singh, Maxim Kots, Thys Van Der Molen, Huib Kerstjens, Irene Heijink, Daan Pouwels, Dirk-Jan Slebos, Maarten Van Den Berge
- 
- OA1526 How respiratory symptoms impact asthma-related quality of life in severe asthmatics**  
Gilles Louis (Liège, Belgium), Florence Schleich, Michèle Guillaume, Bernardo Sousa-Pinto, Jean Bousquet, Renaud Louis, Benoit Pétré
- 
- OA1527 Patient-centred composite index for assessment of response to biological therapy for adult severe asthma.**  
Ekateirina Khaleva (Southampton, United Kingdom), Chris Brightling, Ratko Djukanovic, Sven-Erik Dahlén, Courtney Coleman, Markaya Henderson, Graham Roberts
- 
- OA1528 Longitudinal assessment of glucocorticoid toxicity in biologics treated severe asthma**  
Pamela Jane McDowell (Bangor (Co. Down), United Kingdom), John Busby, John Stone, Kirsty Honeyford, Louise Dunn, Claire Butler, Liam Heaney
- 
- OA1529 Associations of imaging biomarkers with physiological markers of small airways dysfunction in asthma in the ATLANTIS study.**  
Franz Aaron Clemeno (London, United Kingdom), Alexander Bell, Matthew Richardson, Janwillem Kocks, Simonetta Baldi, Judith Vonk, Marika Leving, Bertine Flokstra-De Blok, Leonardo Fabbri, Monica Kraft, Alberto Papi, Klaus Rabe, Maarten Van Den Berge, Tessa Kole, Dave Singh, Craig Galban, Maxim Kots, Christopher Brightling, Salman Siddiqui
- 
- OA1530 Eosinophil-derived neurotoxin determinants and reference values in a middle-aged Swedish population**  
Suneela Zaigham (Malmö, Sweden), Robert Movérare, Magnus Molin, Anders Sjölander, Christer Janson, Andrei Malinovski
- 
- OA1531 Urinary eicosanoids - novel biomarkers in T2-low severe asthma**  
Matthew Chad Eastwood (belfast, United Kingdom), John Busby, Johan Kolmert, Craig Wheelock, Sven-Erik Dahlén, Pamela-Jane McDowell, David Jackson, Ratko Djukanovic, John Matthews, Joseph Arron, Peter Bradding, Chris Brightling, Rekha Chaudhuri, David Choy, Douglas Cowan, Stephen Fowler, Catherine Hanratty, Timothy Hardman, Timothy Harrison, Cecile Holweg, Peter Howarth, James Lordan, Adel Mansur, Andrew Menzies-Gow, Ian Pavord, Douglas Robinson, Samantha Walker, Ashley Woodcock, Liam Heaney
- 
- OA1532 Identification of neutrophilic asthma via the ratio of sphingolipids to glucocorticoids**  
Craig Wheelock (Stockholm, Sweden), Yulu Chen, Antonio Checa, Mengna Huang, Pei Zhang, Qingwen Chen, Ayobami Akenroye, Jessica Lasky-Su
- 
- OA1533 Discussion and Q&A**  
All Speakers

Brown 3

Session 180

15:45 - 17:00

Oral presentation: Cystic fibrosis in adults

**Disease(s) :** Airway diseases Respiratory critical care**Method(s) :** General respiratory patient care Imaging Pulmonary function testing Cell and molecular biology Epidemiology Public health**Tag(s) :** Clinical**Chairs :** Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)



- Late Breaking Abstract - A novel treatment for chronic P. aeruginosa pulmonary infection in CF subjects - A phase 1b/2a randomized, double-blind, placebo-controlled, multicenter study to evaluate phage therapy**  
**OA1534** Urania Rappo (Cambridge, United States), Ariel Cohen, Edith Kario, Jenia Gold, Hadas-Tamar Nevenzal, Inbal Levy-Saar, Tal Cohen, Iddo Nadav Weiner, Hila Sberro Livnat, Ilya Vainberg Slutskin, Jagoda Jablonska, Tim Axelrod, Ori Bahar, Nufar Buchshtab, Vered Lev, Yaron Tzur, Yulia Zarchin, Myriam Golembo, Eitan Kerem, Merav Bassan
- 
- The cellular immune landscape in end-stage cystic fibrosis lungs**  
**OA1535** Astrid Vermaut (Oud-Heverlee, Belgium), Pieterjan Kerckhof, Hanne Beeckmans, Charlotte De Fays, Vincent Geudens, Janne Kaes, Lynn Willems, Gitte Aerts, Charlotte Hooft, Yousry Mohamady, Jan Van Slambrouck, Birgit Weynand, Ghislaine Gayan-Ramirez, Laurens De Sadeleer, Karen Maes, Laurent Godinas, John McDonough, Naftali Kaminsky, Laurens J. Ceulemans, Robin Vos, Lieven Dupont, Bart M. Vanaudenaerde, Mieke Boon
- 
- Characterisation of the CF sputum proteome reveals that innate host defence proteins are depleted in frequent exacerbators**  
**OA1536** Claire Houston (Belfast, United Kingdom), Aya Alkhatib, Gísli Einarsson, Michael Tunney, Clifford Taggart, Damian Downey
- 
- Pharmacokinetics and safety of brensocatib in patients with cystic fibrosis**  
**OA1537** Ariel Teper (Hastings-on-Hudson, United States), Michael Konstan, Patrick Flume, Christina Ramirez, Sherry Li, Marcela Vergara, Helen Usansky
- 
- Interim results from a post-marketing observational safety study (PASS) of levofloxacin inhalation solution in patients with cystic fibrosis**  
**OA1538** Nicholas Simmonds (London, United Kingdom), Susan C. Charman, Julia Wosniok, Debora Santoro, Stella Fiorini, Rémi Charretier, Clara Sanchez, Claudio Procaccianti, Lutz Naehrlich
- 
- Economic impact using a virtual model of care in Cystic Fibrosis**  
**OA1539** Paola Iacotucci (Napoli (NA), Italy), Vincenzo Carnovale, Dandi Qiao, Lorenza Ferrillo, Jolanda Somma, Serena Buonauro, Luigi Massari, Alessandro Sanduzzi Zamparelli, Daniela Savi
- 
- Cluster analysis explains heterogeneity in response to elexacaftor/tezacaftor/ivacaftor in people with cystic fibrosis**  
**OA1540** Federica Bellino (Milano, Italy), Gianfranco Alicandro, Andrea Gramegna, Chiara Premuda, Federica Piedepalumbo, Erica Nazzari, Calogero Sciarabba, Valeria Daccò, Francesco Blasi
- 
- Cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapy (ETI) for one-year and changes in structural lung disease in people with CF (pwCF)**  
**OA1541** Shahid Sheikh (Columbus, United States), Courtney Gushue, Mariah Eisner, Melissa Holtzlander, Karen Mccoy
- 
- Eradication of Nontuberculous Mycobacteria in people with Cystic Fibrosis treated with Elexacaftor/Tezacaftor/Ivacaftor: A Multicenter Cohort Study**  
**OA1542** Inbal Golan-Tripto (Beer sheva, Israel), Vered Wiesel, Micha Aviram, Meir Mei-Zahav, Miri Dotan, Dario Prais, Malena Cohen-Cyberknoh, Michal Gur, Ronen Bar-Yoseph, Galit Livnat, Aviv Goldbart, Guy Hazan, Itai Hazan
- 
- Comorbidities in adult patients with Cystic Fibrosis (CF)**  
**OA1543** Almudena Felipe Montiel (Rubí (CT), Spain), Antonio Álvarez Fernández, Letizia Traversi, David Clofent Alarcón, Karina Lóor Reyes, Mario Culebras Amigo, Cristina Esquinas López, Eva Polverino
- 
- Discussion and Q&A**  
**OA1544** All Speakers

Brown 1+2

Session 181

15:45 - 17:00

**Oral presentation: Technical and epidemiological novelties in paediatric lung function and sleep**

**Disease(s) :** [Sleep and breathing disorders](#) [Airway diseases](#)

**Method(s) :** Physiology Pulmonary function testing Epidemiology General respiratory patient care

**Tag(s) :** Clinical

**Chairs :** Stijn Verhulst (Antwerpen, Belgium), Jessica Taytard (Paris Cedex 12, France)

- Late Breaking Abstract - Nasal nitric oxide measurement in children for the diagnosis of primary ciliary dyskinesia: ERS technical standard**  
**OA1545** Nicole Beydon (Paris, France), Panayiotis Kouis, June Marthin, Philipp Latzin, Murielle Colas, Stephanie Davis, Eric Haarman, Harris Amanda, Hogg Claire, Kilbride Emma, Kuehni Claudia, Marangu Diana, Nielsen Kim, Pendergrast Catherine, Robinson Phil, Rumman Nisreen, Rutter Matthew, Walker Woolf, Ferkol Thomas, Jane Lucas
- 
- Lower tidal breathing lung function at 6 weeks of age, higher maternal BMI in pregnancy and larger sibship size are associated with viral bronchiolitis hospitalisations**  
**OA1546** Carla Rebeca Da Silva Sena (Basel, Switzerland), Ediane De Queiroz Andrade, Patricia De Gouveia Belinelo, Vanessa E Murphy, Paul D Robinson, Peter G Gibson, Peter D Sly, Wilfried Karmaus, Adam Collison, Joerg Mattes

- OA1547** **Determinants of lung function trajectories from birth to 5 years in a South African birth cohort**  
Diane Gray (Cape Town, South Africa), Carlyle Mccready, Francesca Little, Carvern Jacobs, Shaakira Chaya, Lesley Workman, Mark P Nicol, Zoltan Hantos, Adnan Custovic, Heather J Zar
- 
- OA1548** **The impact of GLI Global equations on spirometry interpretation in a diverse pediatric population**  
Jacob McCoy (Toronto, Canada), David Wilson, Lucy Perrem
- 
- OA1549** **Trajectories of sleep oximetry results in Pierre Robin Sequence in the first 6 months of life.**  
Andrew Prayle (Nottingham (Nottinghamshire), United Kingdom), Abyrami Sivanandarajah, Poppy Godding, Jodie Hussain, Heather Sahunta, Mags Sheahan-Parry, Victoria Stainsby, Emma Watson, Catherine Clarke, Jonathan Syme-Grant, Jason Neil-Dwyer, Rebecca Devaney
- 
- OA1550** **The lung clearance ratio: a ventilation inhomogeneity index less sensitive to breathing pattern**  
Florian Wyler (Bern, Switzerland), Marion Curdy, Xenia Bovermann, Sophie Yammine, Philipp Latzin
- 
- OA1551** **Nocturnal Oximetry Reference Values in Healthy Term Infants Aged 1-6 Months**  
Maria Eleni Liagkaki (Athens, Greece), Anastasia Polytarchou, Angeliki Moudaki, Georgia Koltsida, Christina Kanaka-Gantenbein, Athanasios G. Kaditis
- 
- OA1552** **Oxygen(O2) prescribing and compatibility issues in infants on NIV in the UK.**  
Emily McInnes (London, United Kingdom), Caroline Lock, Divya Patel, Katharine Harman, Cara Bossley
- 
- OA1553** **A review of respiratory inductive plethysmography sum (RIPSum) as a surrogate to nasal flow in paediatric cardiorespiratory polygraphy**  
Natalie Blyth (Leicester, United Kingdom), Joe Madge, Prakash Patel, Molla Imaduddin Ahmed
- 
- OA1554** **Analysis of mandibular movements to improve ventilatory management of children**  
Julie Cassibba (Paris, France), Audrey Dupond-Athenor, Guillaume Aubertin, Jean-Louis Pepin, Guillaume Mortamet
- 
- OA1555** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 182

15:45 - 17:00

**Oral presentation: Optimising diagnostic tools and treatment for malignant pleural effusion and mesothelioma****Disease(s) :** Thoracic oncology**Method(s) :** Palliative care General respiratory patient care Surgery Endoscopy and interventional pulmonology**Tag(s) :** Clinical**Chairs :** Kevin Blyth (Glasgow (Glasgow), United Kingdom), Valentina Pinelli (Sarzana, Italy)

- OA1556** **Serum mesothelin is a biomarker for disease progression and mortality in mesothelioma**  
Geri Lynch (Bristol (Avon), United Kingdom), Anna Morley, William Cooper, Anthony Edey, Duneesha De Fonseca, Jenny Symonds, Louise Staddon, Sonia Patole, Kevin Blyth, Anna Bibby
- 
- OA1557** **Defining a new diagnostic biomarker panel for malignant pleural mesothelioma using a novel proteomic technique.**  
Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, An Staes, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote
- 
- OA1558** **Pleural fluid mesothelin as a further diagnostic tool in subjects with a histological diagnosis of non specific pleuritic (NSP)**  
Federica Novelli (Sarzana, Italy), Fiorenza Marugo, Ines Costa, Massimiliano Sivori, Pier Aldo Canessa, Paola Ferro, Silvio Roncella, Gianfranco Puppò, Intersimone Donatella, Valentina Pinelli
- 
- OA1559** **Exhaled breath analysis predicts treatment response in malignant pleural mesothelioma patients.**  
Ellen Heirwegh (Antwerp, Belgium), Eline Schillebeeckx, Eline Janssens, Veerle Surmont, Kristiaan Nackaerts, Elly Marcq, Jan Van Meerbeeck, Kevin Lamote
- 
- OA1560** **The Scottish Mesothelioma Network: Impact of a national MDT on overall survival in pleural mesothelioma**  
Matthew Tate (Glasgow (Glasgow), United Kingdom), Joshua Roche, Selina Tsim, Katie Ferguson, Phil Reid, Philip Short, Mahendran Chetty, Carol Macgregor, Carolyn Macrae, Laura Macnaughton, Tracy Petrie, Susan Smyth, Jen Latham, Lynne Hunter, Rocco Bilancia, Alan Kirk, Craig Dick, Fiona Roberts, Elaine Macduff, Jill Slavin, Hemamalini Pitchamuthu, Gordon Cowell, Simon Sheridan, Mike Gronski, Laura Thomson., Colin Noble, Clinton Ali, Laura Kelly, Elizabeth Sage, Fiona Thomson, Helen Liddicoat, Elaine Smith, Anna Morton, Kevin Blyth
- 
- OA1561** **Qualitative study of patient priorities in the malignant pleural effusion pathway**  
Dinesh Addala (Oxford, United Kingdom), Beenish Iqbal, Poppy Denniston, Anand Sundaralingam, Eihab Bedawi, Rob Hallifax, John Wrightson, Najib Rahman

- OA1562 To study the efficacy of time dependant vs volume dependant chest drain removal protocol for talc slurry pleurodesis in patients with malignant pleural effusion**  
Richa Gupta (Vellore (Tamil Nadu), India), Sarah Koshy, Prince James, Ashwin Oliver
- OA1563 Does a novel Indwelling Pleural Catheter drainage system improve patient experience?**  
Hugh Welch (Bristol, United Kingdom), Eleanor Barton, Edward Beech, Sonia Patole, Louise Staddon, Nick Maskell
- OA1564 Pressurized Intra-Thoracic Aerosol Chemotherapy (PITAC): preliminary results in malignant pleural effusion**  
Maria Giovanna Mastromarino (Pisa, Italy), Fabrizia Calabrò, Gianmarco Elia, Diana Bacchin, Vittorio Aprile, Stylianos Korasidis, Marcello Carlo Ambrogi, Marco Lucchi
- OA1565 Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 183

15:45 - 17:00

## Oral presentation: Tissue modelling and remodelling

Disease(s) : Respiratory critical care Interstitial lung diseases Airway diseases

Method(s) : Transplantation Cell and molecular biology

Tag(s) : Basic science, Translational

Chairs : Niki Ubags (Epalings, Switzerland), Sara Rolandsson Enes (Lund, Sweden)

- OA1566 Late Breaking Abstract - Single-cell landscape of bronchoalveolar cells in inflammatory and fibrotic post-COVID residual lung abnormalities**  
Puja Mehta (London, United Kingdom), Blanca Sanz-Magallón Duque De Estrada, Emma Denny, Kane Foster, Carolin Turner, Andreas Mayer, Martina Milighetti, Manuela Plate, Kaylee Worlock, Masahiro Yoshida, Jeremy Brown, Marko Nikolic, Arjun Nair, Benjamin Chain, Mahdad Noursedeghi, Rachel Chambers, Joanna Porter, Gillian Tomlinson
- OA1567 Epithelial metabolic stress in IPF: Identifying intervention strategies using a preclinical murine SftpcI73T model of lung fibrosis**  
Luis Rodriguez (Philadelphia, United States), Aditi Murthy, Yaniv Tomer, Thalia Dimopoulos, Katrina Chavez, Michael Beers
- OA1568 Glycolysis regulates MMP-dependent tissue remodelling during Tuberculosis infection**  
Ramla Cusman (London, United Kingdom), Julia Kutschenreuter, Deborah L. W. Chong, Jon S. Friedland
- OA1569 Ex vivo tissue perturbations coupled to single-cell RNA-seq reveal multi-lineage cell circuit dynamics in human lung fibrogenesis**  
Niklas Jonathan Lang (München, Germany), Janine Gote-Schniering, Diana Porras-Gonzalez, Lin Yang, Laurens J. De Sadeleer, R. Christoph Jentzsch, Vladimir A. Shitov, Shuhong Zhou, Meshal Ansari, Ahmed Agami, Christoph H. Mayr, Baharak Hooshar Kashani, Yuxin Chen, Lukas Heumos, Jeanine C. Pestoni, Emil Geeraerts, Vincent Anquetil, Laurent Saniere, Melanie Wögrath, Michael Gerckens, Rudolf Hatz, Nikolaus Kneidinger, Jürgen Behr, Wim A. Wuyts, Mircea-Gabriel Stoleriu, Malte D. Luecken, Fabian J. Theis, Gerald Burgstaller, Herbert B. Schiller
- OA1570 Human induced pluripotent stem cell-derived type 2 alveolar epithelial cells – a novel platform to examine the effect of estrogen in Pulmonary Fibrosis**  
Anja Schweikert (Dublin, Ireland), Mari Ozaki, Irene Oglesby, Killian Hurley
- OA1571 Effect of AAT augmentation therapy on bronchiolitis obliterans development in mice model**  
Sabina Janciauskiene Wallmark (Hannover, Germany), Tomoyuki Nakagiri
- OA1572 Single-cell spatial proteomics depicts novel dynamics involving senescent progenitors in fibrotic lesions in COPD and IPF**  
Emanuela Elsa Cortesi (Leuven, Belgium), Asier Antoranz, Vincent Geudens, John E. Mc Donough, Bart Vanaudenaerde, Ghislaine Gayan-Ramirez, Marianne S. Carlon, Veerle Janssens, Wim A. Wuyts, Francesca M. Bosisio, Tania Roskams
- OA1573 Towards modelling Birt-Hogg-Dubé syndrome using hipsc-derived alveolar epithelial cells**  
Alejandro Rodriguez Ruiz (Leiden, Netherlands), Abilash Ravi, Dennis Ninaber, Bart Hoppe, Ruth Olmer, Ulrich Martin, Pieter Hiemstra, Anne Van Der Does
- OA1574 Airway epithelial wound healing is impaired in patients with severe asthma unable to down-titrate anti IL5 biologics**  
Marianne Bastrup Soendergaard (København N, Denmark), Louise Munkholm Andreasson, Ditte Kjærgaard Klein, Celeste Porsbjerg
- OA1575 A multi-omics approach identifies that human antigen R (HuR) controls multiple cellular pathways in idiopathic pulmonary fibrosis (IPF) pathogenesis**  
Quazi Islam (Montreal, Canada), Steven K. Huang, David Eidelman, Carolyn Baglole

OA1576 **Discussion and Q&A**  
All Speakers

**PS-1 in poster area** **Session 185** **16:00 - 17:30**

**Poster session: Digital health interventions for chronic obstructive pulmonary disease and asthma**

**Disease(s) :** **Airway diseases**

**Method(s) :** Epidemiology Public health General respiratory patient care Physiology Pulmonary function testing Imaging Palliative care Pulmonary rehabilitation

**Tag(s) :** Clinical

**Chairs :** Holger Woehrle (Ulm, Germany), Yet Hong Khor (Melbourne (VIC), Australia)

**PA1578** **Digital platforms may enhance asthma outcomes when integrated with virtual care**  
Leanne Kaye (San Diego, United States), Vy Vuong, Urvashi Patel, Douglas Mager, Meredith Barrett

**PA1579** **Development of a registry to assess adherence and digital inhaler utilization in real-world patients with asthma (AURORA): a modified Delphi study**  
Mechteld Wiertz (Zwolle, Netherlands), Amber Eikholt, Anneke Ten Brinke, Els Weersink, Huib Kerstjens, Irene Van Weerd, Johannes In 'T Veen, Kornelis Patberg, Martijn Goosens, Niels Chavannes, Sandra Been-Buck, Titia Klemmeier, Job Van Boven

**PA1580** **Digital inhaler preferences of asthma patients and healthcare providers: a discrete choice experiment**  
Amber Eikholt (Zwolle, Netherlands), Job Van Boven, Tunn Ren Tay, Joy Lee, Mark Hew, Asia N Rashed, Christina Baggott, Sukeshi Makhecha, Louise Fleming, Richard Costello, Amy Chan

**PA1581** **Descriptive analysis of conversational agent usage characteristics in an asthma app**  
Selahattin Çolakoglu (Hertfordshire, United Kingdom), Anil Başpınar, Aslı Yıldız, Mustafa Durmuş

**PA1582** **Electronic peak flow in asthma – usefulness in pregnant and non-pregnant patients**  
Dorothy Ryan (Dublin 3, Ireland), Deirdre Long, Finbarr Harnedy, Rebecca Borton, Richard W. Costello

**PA1583** **Accelerating asthma diagnosis and treatment optimisation through a technology enabled home assessment program**  
Megan Robshaw (Gloucester, United Kingdom), Helen Parrott, Emma Raywood, Dandi Qiao, Eric Harker

**PA1584** **Addressing asthma management gaps with a respiratory digital ecosystem: A preliminary analysis**  
Christopher Licskai (London (ON), Canada), Joseph Cafazzo, Madonna Ferrone, Denise Ng, Anna Hussey, Quynh Pham, Cailey Ranot, Paul Mastoridis, Shumit Saha, Karen Mezzi

**PA1585** **Evaluation of current self-management strategies in iOS and Android mobile applications on patients with asthma**  
Natsumi Nomura (Urayasu, Chiba, Japan), Jun Ueki, Emika Sano, Megumi Ikeda, Norihiro Harada, Hiroo Wada

**PA1586** **Asthma-related goals to motivate adherence**  
Ayana Martins (Pfäffikon SZ, Switzerland), Giuseppe Ranieri

**PA1587** **Effectiveness of mobile-based rehabilitation in COPD patients: feasibility study from rural Rajasthan**  
Neeti Rustagi (Jodhpur, India), Naveen Dutt, Suseendar S, Navratan Suthar

**PA1588** **Quality and compliance to home-based spirometry in COPD patients**  
Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, Joanna C Porter, John R Hurst, Amos A Folarin

**PA1589** **Feasibility of wearable smart shirt technology for daily life physiology and symptom assessment in COPD**  
Hayley Lewthwaite (Merewether, Australia), Gennaro D'Elia, Sarah Johnson, Peter Gibson, Troy Cross, Vanessa M McDonald

**PA1590** **A digital mindfulness-based intervention for COPD patients: a pilot study investigating the effects on psychological distress and stress**  
Florian Vafai-Tabrizi (Wien, Austria), Hannah Tschenett, Georg-Christian Funk, Urs Markus Nater

**PA1591** **Telemonitoring and telerehabilitation in severe COPD patients awaiting lung transplant: a descriptive study**  
André Filipe Santos Nunes (Ponta Delgada, Portugal), Marta Santos, Cláudia Costa, Joana Barbosa, Cristina Santos, Fátima Rodrigues, Cristina Bárbara

**PA1592** **Impact of symptoms and disease severity on digital mobility outcomes in COPD**  
Dimitrios Megaritis (Newcastle upon Tyne, United Kingdom), Joren Buekers, Tecla Bonci, Emily Hume, Lisa Alcock, Alison Yarnall, Encarna Mico Amigo, Philip Brown, Christopher Buckley, Silvia Del Din, Carlos Echevarria, Claudia Mazzà, Lynn Rochester, Judith Garcia-Aymerich, Ioannis Vogiatzis

- PA1593** **Telemonitoring of Symptoms and Lung Function in COPD for Early Detection of Exacerbations**  
Mustafa Abdo (Grosshansdorf, Germany), Anne Kirsten, Hans Klose, Tim Oqueka, Barbara Karlsdorf, Erwin Junker, Daniel Drömann, Thomas Bahmer, Klaus.F Rabe, Henrik Watz
- 
- PA1594** **Change in COPD Assessment Test (CAT) score from a stable baseline has a high predictive capability for acute exacerbations**  
Henry Glyde (Bristol, United Kingdom), Alison M. Blythin, Tom M. Wilkinson, Ian T. Nabney, James W. Dodd
- 
- PA1595** **From high-resolution time series to a single, clinically-interpretable value - considerations for the aggregation of real world walking speed assessed by wearable sensors in patients with chronic obstructive pulmonary disease (COPD)**  
Sarah Koch (Barcelona, Spain), Joren Buekers, Inés Cobo, Jorge Lemos, José Marchena, Tecla Bonci, Brian Caulfield, Silvia Del Din, Heleen Demeyer, Anja Frei, Jeff M. Hausdorff, Anisoara Ionescu, Kamiar Aminian, Jochen Klenk, Enarna Mico Amigo, Paolo Piraino, David Singleton, Oleksandr Sverdllov, Lynn Rochester, Thierry Throosters, Judith Garcia-Aymerich
- 
- PA1596** **Quantification of smoking-related airway remodelling in COPD, using a novel fast-response capnometer**  
Leeran Talker (Perivale, United Kingdom), Rui Hen Lim, Laura Wiffen, Henry Broomfield, Daniel Neville, Ahmed Selim, Julian C Carter, Scott T Weiss, Gabriel Lambert, Gail Hayward, Thomas Brown, Vijaykumar Elango, Anoop Chauhan, Ameera X Patel
- 
- PA1597** **Telemonitoring of patients with COPD: impact beyond hospital admissions**  
Fernando Pereira da Silva (Vila Real, Portugal), Élin Almeida, Fernando Silva, Mariana Tavares, Joana Ribeiro, José Manuel Silva, Luís Ferreira

**PS-10 in poster area****Session 186****16:00 - 17:30****Poster session: Environment and respiratory health****Disease(s) :** **Airway diseases****Method(s) :** Public health General respiratory patient care Epidemiology Cell and molecular biology Pulmonary function testing**Tag(s) :** Translational**Chairs :** Isabella Annesi Maesano (Montpellier, France), Giovanni Viegi (Pisa (PI), Italy)

- PA1598** **Associations of long-term exposure to low-level air pollution and greenness with incidence of protracted cough: results from the RHINE study**  
Shanshan Xu (Bergen, Norway), Alessandro Marcon, Randi Jacobsen Bertelsen, Bryndis Benediktsdottir, Thorarinn Gislason, Jørgen Brandt, Lise Marie Frohn, Camilla Geels, Joachim Heinrich, Mathias Holm, Christer Janson, Rain Jogi, Iana Markevych, Hans Orru, Anna Oudin, Vivi Schlünssen, Torben Sigsgaard, Ane Johannessen
- 
- PA1599** **Air pollution and childhood asthma in Iceland – results from the Nordic WelfAir project.**  
Ane Johannessen (Bergen, Norway), Throstur Thorsteinsson, Camilla Geels, Lise Marie Frohn, Jørgen Brandt, Thorarinn Gislason
- 
- PA1600** **Human airway Immune homeostasis and lung function are altered with controlled exposure to model wildfire smoke: characterizing susceptibility factors and the secretome**  
Meghan Rebuli (Chapel Hill, United States), Morgan Nalesnik, Catalina Cobos-Urbe, Alexis Payton, Martha Almond, Carole Robinette, Neil Alexis, Julia Rager, David Peden, Ilona Jaspers
- 
- PA1601** **Green space during pregnancy and the development of asthma up to 27 years of age: The Espoo Cohort Study**  
Aino K. Rantala (Oulu, Finland), Ines Paciencia, Harri Antikainen, Jan Hjort, Timo Hugg, Maritta S. Jaakkola, Jouni J. K. Jaakkola
- 
- PA1602** **Greenness exposure: beneficial but multidimensional. A review.**  
Ane Johannessen (Bergen, Norway), Shanshan Xu, Achenyo Peace Abbah, Christer Janson
- 
- PA1603** **In vitro bioreactivity of tyre wear particles collected in real time on human alveolar epithelial cells**  
Khaled Alzahabi (London, United Kingdom), Toyosi Akande, Ayeh Alobaidi, Georgia May Gamble, Nick Molden, Marc Stettler, Teresa Tetley
- 
- PA1604** **Reduced bronchoalveolar phagocytosis after controlled short-term exposure to wood smoke in healthy humans**  
Alva Hansson (Umeå, Sweden), Gregory Rankin, Oskari Uski, Maria Friberg, Jamshid Pourazar, Robert Lindgren, Natxo García-López, Christoffer Boman, Thomas Sandström, Annelie Behndig, Ala Muala
- 
- PA1605** **Residential exposure to microbial emissions from livestock farms: implementation and evaluation of random forest land use models**  
Beatrice Cornu Hewitt (Utrecht, Netherlands), Lidwien A.M. Smit, Warner Van Kersen, Inge M. Wouters, Dick J.J. Heederik, Jules Kerckhoffs, Gerard Hoek, Myrna M.T. De Rooij

- PA1606** **Joint association of air pollution exposure and inflammation-related proteins in relation to infant lung function**  
Shizhen He (Stockholm, Sweden), Björn Lundberg, Jenny Hallberg, Susanna Klevebro, Göran Pershagen, Kristina Eneroth, Erik Melén, Matteo Bottai, Olena Gruzieva
- 
- PA1607** **The role of biodiversity in the development of asthma and allergic sensitization: a systematic review and meta-analysis**  
Jouni J.K. Jaakkola (Oulu, Finland), Inês Paciência, Timo T. Hugg, Behzad Heibati, Aino K. Rantala, Maritta S. Jaakkola, Needhi Sharma, Wael K. Al-Delaimy
- 
- PA1608** **Spatially resolved air pollution models identify disparities in exposure by socioeconomic status (SES)**  
Meredith Barrett (Portland, United States), Shadi Aslebagh, Vy Vuong, Emma Yakutis, Leanne Kaye, Jason Su
- 
- PA1609** **Livestock farm exposures and lung function decline in neighboring residents: a 7-year follow up study**  
Warner van Kersen (Utrecht, Netherlands), Myrna De Rooij, Bernadette Aalders, Kaitlin Prins, Floor Borlée, Joris Yzermans, Joke Van Der Giessen, Dick Heederik, Mary Rice, Lidwien Smit
- 
- PA1610** **The relationship between COVID-19 mortality and socioeconomic status, air quality and housing density in Ankara, Turkiye**  
Elif Reyhan Sahin (Ankara, Turkey), M Omur Gungor, Ahmet U Demir, A Fuat Kalyoncu
- 
- PA1611** **Outdoor air pollution and asthma in low-and middle-income countries: a systematic review**  
Achenyo Abbah (Bergen, Norway), Shanshan Xu, Ane Johannessen
- 
- PA1612** **Chemical composition and the oxidative potential of particulate matter (PM) in source-specific areas around the globe**  
Constantinos Sioutas (Los Angeles, United States), Vahid Jalali Farahani, Abdulmalik Altuwayjiri
- 
- PA1613** **Household air pollution and lung health in children: A systematic review and meta-analysis**  
Om Prakash Kurmi (Coventry, United Kingdom), Sathya Swarup Aithal, Ishaan Sachdeva, Nagendra Chaudhary
- 
- PA1614** **Temporal evolution of PM2.5 levels in relation to Covid-19 mortality in Europe between early-2020 to end-2022 period**  
Isabella Annesi Maesano (Montpellier, France), Jean-Baptiste Renard, Jeremy Surcin, Eric Poincelet
- 
- PA1615** **Partial pressure of arterial oxygen in healthy at altitude - A systematic review**  
Ahmet Sevik (Zuerich, Switzerland), Aglaia Forrer, Thomas Gaisl, Michelle Meyer, Luzi Senteler, Mona Lichtblau, Konrad Ernst Bloch, Silvia Ulrich, Michael Furian
- 
- PA1616** **Health risk perception profiles in Gela: a latent class analysis**  
Giacomo Ilardo (Palermo, Italy), Alessandra Pandolfo, Velia Malizia, Giovanna Cilluffo, Salvatore Fasola, Giuseppe Piva, Liliana Cori, Giovanni Viegi, Stefania La Grutta
- 
- PA1617** **Assessing the prevalence of pressurized Metered-dose Inhalers among COPD patients & their eligibility to switch to Dry Powdered Inhalers.**  
Archana Ganapathy (London, United Kingdom), Asif Khapedi, Kanwar Pannu, Mukherjee Dipak, Dawar Ujaas, Johnson Samuel

## PS-11 in poster area

## Session 187

16:00 - 17:30

## Poster session: Preschool wheeze and asthma: viruses, environmental and other risk factors

Disease(s) : **Airway diseases**

Method(s) : Pulmonary function testing Cell and molecular biology Epidemiology Physiology Public health General respiratory patient care Respiratory intensive care

Tag(s) : Clinical, Translational

Chairs : Christiane Lex (Goettingen, Germany), Abigail Whitehouse (London, United Kingdom)

- PA1618** **Outdoor air nitrogen dioxide augments exercise-induced bronchoconstriction in children**  
Anna Pauliina Tikkakoski (Nokia, Finland), Antti Tikkakoski, Kalle Sipilä, Juho Kivistö, Mika Kahonen, Jussi Karjalainen, Lauri Lehtimäki
- 
- PA1619** **Rhinovirus-induced preschool wheeze in combination with allergic sensitization increases the risk of asthma in early adolescence**  
Idun Holmdahl (Stockholm, Sweden), Sofia Luning, Sabina Wärnberg Gerdin, Anna Asarnej, Angela Hoyer, Anastasia Filiou, Anders Sjölander, Anna James, Magnus Borres, Gunilla Hedlin, Marianne Van Hage, Cilla Söderhäll, Jon R Konradsen

PA1620	<b>RSV (Respiratory Syncytial Virus) infection in infancy and its impact on childhood wheezing at 2-year, 4-year and 6-year age: A single center long term follow-up ARSVIAA study (ARSVIAA study-Association of RSV, IgE and atopy in childhood asthma)</b> Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Yogesh Utage, Abhijit Acharya, Sham Toshniwal
PA1621	<b>Real time mapping of particulate matter (PM) concentrations and paediatric asthma emergency department (ED) visits</b> Karl Holden (Liverpool, United Kingdom), Alice Lee, Charlotte King, Olufemi Olajide, Dan Hawcutt, Jonathan Higham, Ian Sinha
PA1622	<b>Association of FCER2 gene polymorphisms with childhood asthma</b> Azer Kiliç Baskan (Istanbul, Turkey), Berrak Nevin Oztosun, Huseyin Arslan, Ayşe Ayzıt Kılınc Sakallı, Haluk Cezmi Cokugras
PA1623	<b>Risk factors for asthma related hospital admissions in children and adolescents: Analysis of 205,000 patients in England</b> Prasad Nagakumar (Birmingham (West Midlands), United Kingdom), Nikita Simms-Williams, Rasiah Thayakaran, Nicola Adderley, Krishnarajah Nirantharakumar, Adel Mansur, Shamil Haroon
PA1624	<b>Near Fatal and Fatal Asthma in children and young people associated with outdoor air pollution: A systematic review.</b> Deepa Varghese (Glasgow, United Kingdom), Kathryn Ferris, Bohee Lee, Jonathan Grigg, Hilary Pinnock, Steve Cunningham
PA1625	<b>Increased innate immune responses in children with acute asthma exacerbation</b> Shahid Sheikh (Columbus, United States), Joshua Walum, Katie Heyob, Brandon Lewis, Aiman Khan, Karen Mccoy, Benjamin Kopp, Mitchell Grayson, Rodney Britt
PA1627	<b>Sex differences in childhood asthma is driven by a T2-high phenotype and mediated through sex hormone metabolites</b> Laura Hesselberg (København N, Denmark), Nicklas Brustad, Rikke Bjersand Sunde, Min Kim, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bønnelykke, Bo Chawes
PA1628	<b>Is your home impacting on your child's asthma?</b> Abigail Whitehouse (London, United Kingdom), Charles Moorcroft, Jonathan Grigg
PA1629	<b>Pattern and risk factor of lower respiratory illness in children who survived meconium aspiration syndrome</b> Kwang Hee Kim (Bucheon, Republic of Korea), Danbi Kim, Youngah Youn, Juyoung Lee, Hwan Soo Kim
PA1630	<b>Allergic sensitisation, respiratory tract infections and subsequent preschool lung function: evidence from an Australian birth cohort study</b> Cassidy Du Berry (Melbourne, Australia), Rheanna Mainzer, Lawrence Gray, Louise King, Peter Sly, Peter Vuillermin, Sarath Ranganathan
PA1631	<b>MicroRNAs shuttled by extracellular vesicles released by adenoid derived PBMC in children</b> Amelia Licari (Pavia (PV), Italy), Simona Taverna, Giuseppe Cammarata, Ilaria Brambilla, Lorenza Montagna, Anna Masucci, Velia Malizia, Gian Luigi Marseglia, Stefania La Grutta
PA1632	<b>Perturbed urinary eicosanoids levels in early life associate with risk of atopic diseases in childhood</b> Liang Chen (Copenhagen, Denmark), Nicklas Brustad, Min Kim, Yang Luo, Tingting Wang, Mina Ali, Ann-Marie M Schoos, Jakob Stokholm, Morten A Rasmussen, Klaus Bønnelykke, Javier Zurita Pérez, Johan Kolmert, Craig E Wheelock, Jessica Lasky-Su, Bo Chawes
PA1633	<b>Lung function trajectories in persistent asthma: from preschool to the schoolchildren.</b> Alberto Vidal (Santiago, Chile), Ramiro González, Selim Abara, Mónica Saavedra, Oscar Fielbaum, María Angelica Palomino, Alejandra Méndez
PA1634	<b>Consensus priorities for outcomes in oral corticosteroid treatment for preschool wheeze: a nominal group technique study with clinicians and parents</b> Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Jasmine Hine, Ann McMurray, Damian Roland, Meredith Borland, Péter Csonka, Jonathan Grigg, Theresa Guilbert, Tuomas Jartti, Abraham Oommen, Steff Lewis, Steve Cunningham
PA1635	<b>Efficacy of oral corticosteroids for preschool wheeze: a meta-analysis of individual participant data from seven randomised controlled trials</b> Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Meredith Borland, Péter Csonka, Jonathan Grigg, Theresa Guilbert, Tuomas Jartti, Abraham Oommen, Steff Lewis, Steve Cunningham
PA1636	<b>Preschool wheeze and response to Haemophilus influenzae type B conjugate vaccine</b> Callum Tipton (Cambridge, United Kingdom), Theofilos Polychronakis

## PS-12 in poster area

## Session 188

16:00 - 17:30

## Poster session: Paediatric bronchology: new insights

Disease(s) : Airway diseases Thoracic oncology

Method(s) : Endoscopy and interventional pulmonology General respiratory patient care Public health Pulmonary function testing  
Imaging Pulmonary rehabilitation Cell and molecular biology Epidemiology

Tag(s) : Clinical

Chairs : Dirk Schramm (Düsseldorf, Germany), Laura Petrarca (Roma (RM), Italy)

PA1637	<b>Patients previously treated for childhood interstitial lung disease display an increased prevalence of cognitive deficits, depression and anxiety.</b> Astrid Madsen Ring (Gentofte, Denmark), Martin Vestergaard, Ida Strøier Bøge, Frederik Fourinaies Buchvald, Kim Gjerum Nielsen
PA1638	<b>Causes of stridor in children - the ten-year experience of a tertiary center</b> Aleksandar Sovtić (Beograd, Republic of Serbia), Bojana Gojsina, Milan Rodic, Jelena Visekruna, Mihail Basa
PA1639	<b>Subglottic stenosis in children – etiology and treatment</b> Aleksandar Sovtić (Beograd, Republic of Serbia), Bojana Gojsina, Milan Rodic, Jelena Visekruna, Mihail Basa
PA1640	<b>Bronchoalveolar lavage findings in children with chronic unexplained cough</b> Ivan Pavic (Zagreb, Croatia), Manuela Radić, Roberta Šarkanji Golub, Draženka Ezgeta Karačić, Iva Hojsak
PA1641	<b>Role of impedance study in paediatric recurrent respiratory symptoms</b> Kushalini Hillson (London, United Kingdom), Surendran Thavagnanam, Chinedu Nwokoro, Sarah Brown, Abigail Whitehouse, Caroline Pao, Muna Dahabreh
PA1642	<b>Pneumothorax in childhood: A retrospective single center study</b> Merve Aka (Ankara, Turkey), Merve Kasikci, Halime Nayır Buyuksahin, Dilber Ademhan Tural, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper
PA1643	<b>Alpha-1 antitrypsin deficiency (AATD)</b> Michele Ghezzi (Bergamo, Italy), Alice Romero, Stefania Roncaglia, Sara L'Assainato, Enza D'Auria, Gian Vincenzo Zuccotti
PA1644	<b>Association between lung ultrasound findings, pulmonary function tests and chest radiography in children with cystic fibrosis</b> Didem Alboğa (Altındağ, Turkey), Nagehan Emiralioglu, Berna Oğuz, Halime Nayır Büyüksahin, Ismail Güzelkaş, Birce Sunman, Meltem Akgül Erdal, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper
PA1645	<b>Complications of tracheobronchial foreign body aspiration in children</b> Alexandru Corlateanu (Chisinau, Republic of Moldova), Diana Rotaru-Cojocari, Victor Rascov, Iurie Simionica, Eva Gudumac, Svetlana Sciuca
PA1646	<b>Neutrophil lymphocyte ratio, mean platelet volume, and immunoreactive trypsinogen as early inflammatory biomarkers for cystic fibrosis in infancy: A retrospective cohort study</b> Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Ayşe Tana Aslan, Pelin Asfuroğlu, Nursima Kunt, Ali Ersoy, Mehmet Kose, Gökçen Unal, Sevgi Pekcan
PA1647	<b>Evaluation of the efficacy of inhaled bronchodilators in infants with bronchiolitis through respiratory function testing: a pilot study</b> Laura Petrarca (Roma (RM), Italy), Raffaella Nenna, Maria Giulia Conti, Domenico Paolo La Regina, Enrica Mancino, Elio Iovine, Antonella Frassanito, Fabio Midulla
PA1648	<b>Mucoepidermoid Tumour of bronchus: Case report of a rare airway tumour &amp; role of Interventional Pulmonology in management</b> Shubham Sharma (Jaipur (Rajasthan), India), Apar Jindal
PA1649	<b>Management of neurotypical children with recurrent aspiration</b> Priyanka Patel (Pinner, United Kingdom), Christine Lim, Simone Hadjisymeou-Andreou, Lauren Harwood, Samatha Sonnappa
PA1650	<b>Evaluation of Children with Stridor by Flexible Bronchoscopy</b> Merve nur Tekin (Ankara, Turkey), Mukaddes Agirtici, Gizem Özcan, Fazılcan Zirek, Secahattin Bayav, Nazan Çobanoğlu
PA1651	<b>Alexithymia in primary ciliary dyskinesia</b> Gökçen Unal (Konya, Turkey), Hanife Tuğçe Çağlar, Sevgi Pekcan, Fatih Ercan, Aslı Turkut
PA1652	<b>Late Breaking Abstract - Are breath-actuated inhalers effective in managing acute asthma exacerbations in children?</b> Sowmya Arudi Nagarajan (Bangalore (Karnataka), India), Vaishali Naik, Meena Lopez, Jaideep Gogtay



**PA1653 Late Breaking Abstract - Metabolic Genealogy of Allergic Diseases in Childhood**  
Xiaolong Deng, Yuanqi Wang, Cuilian Mo, Zhihui He, Baoqing Sun, Jiaying Luo

**PA1654 Late Breaking Abstract - RSV Prophylaxis for 29-34 Gestational Premies: Lessons from an Israeli National Multi-center Off-seasonal Study**  
Keren Armoni Domany (Tel-Aviv, Israel), Avigdor Mandelberg, Inbal Tripto Golan, Nitzan Burrack, Kamal Masarweh, Mika Rochman, Moria Beer, Dario Prais, Moran Weinberger, Elias Nasrallah, Orli Megged, Rachel Shatzman Steuerman, Michal Stein, Zohar Steinberg, Shereen Shehadeh, Diana Tasher

**PA1655 Late Breaking Abstract - Burden of allergic rhinitis in children in the UK and Canada: A cross-sectional study**  
Mercedes Romano Rodriguez (Hørsholm, Denmark), Anne Sofie Ledgaard Loftager, Simone Dupont Bengtsson, Mette Bøgelund, Mark Aagren, Jose Maia E Costa, Elana Lavine

**PA1656 Late Breaking Abstract - Siblings as a risk factor to guide RSV prophylaxis in Korean infants**  
Ian Keary (Reading, United Kingdom), Ji-Man Kang, Xavier Carbonell-Estrany, Barry Rodgers-Gray, John Fullarton, Bosco Paes

## PS-13 in poster area

## Session 189

16:00 - 17:30

### Poster session: Nursing interventions and outcomes

**Disease(s) :** Airway diseases Sleep and breathing disorders Respiratory critical care

**Method(s) :** General respiratory patient care Palliative care Pulmonary rehabilitation Public health Epidemiology Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** José Miguel dos Santos Castro Padilha (Porto, Portugal), Malin Axelsson (Malmö, Sweden)

**PA1657 Inhalation therapy: educational intervention to avoid complications**  
carla Barros (Vila Boa de Quires, Portugal), Mónica Pinheiro

**PA1658 Psychological vulnerability mediates the relationship between pain perception in stable COPD patients.**  
Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benitez, Sofia Hernández Hernández, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Miguel Hernández Serrano, Marie Carmen Valenza

**PA1659 Assessing health status of patients with COPD using CAT and HADS screening tools: A cross-sectional study**  
Helga Jonsdottir (Reykjavik, Iceland), Þ. Soley Ingadottir, Stella Stefansdottir

**PA1661 Partnership-based nursing practice framework for patients with chronic obstructive pulmonary disease and their families**  
Helga Jonsdottir (Reykjavik, Iceland), Bryndis Halldorsdottir, Þ. Soley Ingadottir

**PA1662 Sputum colour as an indicator of quality of life in patients with bronchiectasis**  
Leticia Bueno Freire (Barcelona, Spain), Patricia Oscanoa, Victoria Alcaraz Serrano, Andrea Palomeque, Rubén López Aladid, Nil Vázquez, Roberto Cabrera, Rosanel Amaro, Laia Fernández Barat\*, Antoni Torres\*

**PA1663 Pulmonary Rehabilitation Intervention to Maintain Exercise Behavior (PRIMEb) – a motivational analysis.**  
Duarte Pinto (Matosinhos, Portugal), Nuno Macedo, Raquel Marques, Maria João Cunha, Sónia Rocha, Ana Carvalho, Jorge Encantado, Vânia Rocha, Paulino Sousa, Paulo Machado, Miguel Padilha

**PA1664 General practitioner's referencing habits to pulmonary rehabilitation in a Portuguese urban area**  
Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Paula Simão, Patrício Costa, José Miguel Padilha

**PA1665 A case study of a nurse-led maintenance pulmonary rehabilitation programme**  
Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patrício Costa, José Miguel Padilha

**PA1666 How many patients with sleep apnoea experience pressure discomfort from the CPAP mask? How can pressure discomfort from the CPAP mask best be prevented?**  
Lonnie Sneistrup (Svendborg, Denmark), Anne Dichmann Sorknæs, Helle Guldager Corydon

**PA1667 Pressure injuries and respiratory devices: descriptive observational study**  
margherita beretta (Milano, Italy), Cristiana Piola, Francesco Blasi, Andrea Bellingeri, Enrico Maria Marone, Barbara Sappa

**PA1668 Repercussions of rehabilitation nurse's intervention on critical patients' ventilation with inspiratory muscle training**  
Luís Estevão (Matosinhos, Portugal), Maria José Gomes, Liliana Silva

**PA1669 Sex, functional impairment, lung injury, and rib fracture pattern impact on disability in patients with a longer hospital stay.**  
Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benítez, Sofia Hernández Hernández, Javier Martín Nuñez, Laura López López, Irene Cabrera Martos, Marie Carmen Valenza

- PA1670 Correlation study between sleepiness while driving, and daytime sleepiness.**  
Alejandro Pastor Campo (Sant Boi de Llobregat (CT), Spain), Victoria Pastor Campo, Isabel Portela Ferreño
- PA1671 Patient education in self-care management of individuals with COPD in Turkey**  
Merve Kıymaç Sarı (Şişli, Turkey), Rağsan Çevik Akyıl, Gamze Oğuz, Zehra Durna
- PA1672 Assessment of respiratory distress in small children**  
Majda Oštir (Ljubljana, Slovenia), Katarina Korenin, Magdalena Zupan, Uros Krivec
- PA1673 Safe discharge in a streamlined practice: A qualitative study of nurses' approach in ending courses of patients with COPD after admission to a medicinal pulmonary ward.**  
Nanna Vendelboe Gregersen (Aarhus N, Denmark), Dorthe Sørensen
- PA1674 What effect does home-based management have on patients with COPD hospital readmission rates?**  
Rita Corcoran (Westport, Ireland), Bridget Murray
- PA1675 Experiences of patients with advanced COPD affiliated with a cross-sectorial lung team.**  
Birgit Refsgaard (Aarhus V, Denmark), Anders Løkke, Vibeke Bregnballe, Lotte Rodkjaer

**PS-14 in poster area** **Session 190** **16:00 - 17:30**

**Poster session: COVID-19 treatments**

**Disease(s) :** Respiratory critical care Airway diseases

**Method(s) :** Public health Respiratory intensive care Pulmonary function testing Cell and molecular biology General respiratory patient care Epidemiology

**Tag(s) :** Clinical

**Chairs :** Megan Crichton (Dundee (Angus), United Kingdom), Michal Shteinberg (Haifa, Israel)

- PA1676 Lactoferrin in Long COVID patients (LARGO): a randomized, double-blind, controlled trial**  
Anne-Lotte Redel (Rotterdam, Netherlands), Fatana Miry, Laurien Oswald, Gert-Jan Braunstahl
- PA1677 Post hoc analysis of a phase 3, cluster randomised clinical trial of peginterferon beta-1a to reduce transmission of SARS-CoV-2: effect of viral load on transmission and risk factors for hospitalisation**  
Samuel Montgomery (Leederville (WA), Australia), Yuliya Karpievitch, David Hancock, Stephen Stick, . On Behalf Of The Concord-19 Study Team
- PA1678 Bevacizumab in addition to standard of care did not shorten the time to improve hypoxemia in severe hypoxemic COVID-19 pneumonia in a prospective randomized controlled trial.**  
Jacques Cadranel (Paris Cedex 20, France), Camille Rolland-Debord, Vincent Labbe, Sophie Tuffet, Benjamin Planquette, Jean-Louis Teboul, Romain Jouffroy, Bertrand Guidet, Guillaume Voiriot, Raphael Hindre, Laurent Saval, Julien Schmidt, Michael Darmon, Jonathan Marey, Armand Mekontso-Dessap, Camille Taillé, Etienne Giroux-Leprieur, Florence Geny, Julien Mayaux, Guillaume Carteaux, Tabassome Simon, Antoine Parrot, Alexandra Rousseau, Muriel Fartoukh
- PA1679 Temporal development of non-pharmacological maximum therapies for COVID-19 inpatients**  
Sandhya Matthes (Solingen, Germany), Johannes Holl, Johannes Randerath, Marcel Treml, Lars Hagemeyer, Winfried Randerath
- PA1680 Virucidal efficacy of cetylpyridinium chloride lozenges against coronavirus and influenza virus**  
Graça Coutinho (London, United Kingdom), Tina Peiter, Maren Goelzer, Tessa Stahl, Yetunde Kolade, Maren Eggers
- PA1681 A comparative study of the effectiveness between pulse regimen methylprednisolone versus high dose dexamethasone as the initial treatment of moderate covid-19 pneumonia: an open-label randomized controlled trial**  
Jakkrit Laikitmongkhon (Bangkok, Thailand), Tanapat Tassaneyasin, Angsana Phuphuakrat, Sirawat Srichatrapimuk, Tananchai Petnak, Dararat Eksombatchai, Kanin Thammavaranucupt, Somnuek Sungkanuparph, Yuda Sutherland
- PA1682 Antiviral and anti-inflammatory effects of Erdosteine and MET-1 in SARS-CoV-2 in vitro infection**  
Sergio Strizzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Radovanovic, Daria Trabattoni, Pierachille Santus
- PA1683 Impact of low molecular weight heparin (LMWH) on SARS-CoV2 Infection: HEPARIN SARS-CoV2 clinical trial.**  
Remedios Otero Candelera (Sevilla, Spain), Demetrio González-Vergara, Isabel Caparrós, Alberto García-Ortega, Consolación Rodríguez-Matute, Jorge Moisés, Lucía Marín-Barrera, Javier Rodríguez-Martorell
- PA1684 Lopinavir-ritonavir versus darunavir-norvir for hospitalized COVID-19 patients**  
Dóra Paróczai (Deszk, Hungary), András Bikov, Andreea Blidaru, Emanuel Bobu, Bianca Cerbu, Iosif Marincu, Stefan Mihaicuta, Stefan Frent
- PA1685 Inhaled corticosteroids for post-hospital rehabilitation treatment of patients with COVID-19**  
Nataliia Chaplynska (Ivano- Frankivsk, Ukraine), Victoriia Rudnyk

**PA1686 Remdesivir versus favipiravir in hospitalized patients with moderate COVID-19 pneumonia: A propensity score-matched retrospective cohort study.**  
Karuna Chavalertsakul (Bangkok, Thailand), Tanachai Petnak, Viboon Boonsarngsuk, Somnuek Sangkanuparph, Kanin Thammavaranucupt, Suppachok Kirdlar, Yuda Sutherasan

**PA1687 Comparison of effectiveness between baricitinib and tocilizumab in severe COVID-19. A retrospective study.**  
Ioannis Tomos (Athens (P. Faliro), Greece), Ioannis Grigoropoulos, Chrysavgi Kosti, Serafeim Chrysikos, Antonia Digalaki, Konstantinos Thomas, Georgios Hillas, Dimitrios Boumpas, Anastasia Antoniadou, Dimitra Kavatha, Katerina Dimakou

**PA1688 Is Anakinra effective and safe for severe COVID-19 disease? A Comprehensive Systematic Review of 44 studies including 3179 patients**  
Aliae Abd Rabou Mohamed-Hussein (Assiut, Egypt), Reem Sayad, Abdelrahman Abdelshafi, Islam Abdelaal Hammam, Ahmed M. Kedwany, Shrouk Alaa Eldein Abdallah, Islam H. Ibrahim

**PA1689 Chronic COPD medications and CoViD-19 mortality- an observational study.**  
Anastasios Stringaris (HERAKLION, Greece), Georgios Makris, Theodoros Moschopoulos, Eirini Pasparaki, Myrto Plexousaki, Emmanouil Ferdoutsis, Georgios Meletis

**PA1690 Tozorakimab in patients hospitalised with COVID-19: a phase 2, randomised adaptive platform study (ACCORD-2)**  
Hitesh Pandya (Leicester (Leicestershire), United Kingdom), Thomas Wilkinson, Miles Carroll, Clive Page, Rachel Moate, Fred Reid, Chris Kell, Ian C Scott, Dave Singh

**PA1691 Clinical trials of inhaled interferon beta-1a (SNG001) in COVID-19 patients in the home and hospital**  
Phillip D Monk (Southampton (Hampshire), United Kingdom), Jody Brookes, Victoria Tear, Toby Batten, Marcin Mankowski, Felicity Gabbay, Donna Davies, Chris Brightling, Monica Kraft, Ratko Djukanovic, Stephen Holgate, Tom Wilkinson

**PA1692 Effects of prolonged corticosteroid therapy on lung abnormalities and symptoms after severe COVID-19 pneumonia with prolonged respiratory insufficiency**  
Nevenka Piskac Zivkovic (Zagreb, Croatia), Anja Ljilja Posavec, Nikola Zagorec, Daria Cvetković Kučić

**PA1693 Benefits of N-Acetylcysteine in the SARS-CoV-2 infection**  
M<sup>a</sup> Angeles Galindo-Andúgar (Alcázar de San Juan, Spain), Ángel Arias-Arias, Alfonso García-Guerra, Ana Bellido-Maldonado, Iciar Fernández-Visier, Antonio Cantillo-Berni, Sara Rodríguez-Fernández

**PA1694 The Effect of Inhaled Corticosteroid (ICS) Use in the Outcomes of COVID-19 Pneumonia among Patients 18 years old and Above Diagnosed with Asthma and COPD in a Tertiary Hospital: A Retrospective Cohort Study**  
Jay Andrew Ilagan (Pasig, Philippines), Evelyn Victoria Reside

PS-15 in poster area

Session 191

16:00 - 17:30

Poster session: The 3 Ts of lung cancer management: targets, treatment response and troubles

Disease(s) : Thoracic oncology Airway diseases

Method(s) : Cell and molecular biology General respiratory patient care Respiratory intensive care Epidemiology Surgery Public health Endoscopy and interventional pulmonology

Tag(s) : Clinical

Chairs : Georgia Hardavella (Athens, Greece), Wouter H. van Geffen (Leeuwarden, Netherlands)

**PA1695 Biomarkers in non-small cell lung cancer patients: are they always worth looking for?**  
Michele Barp (Feltre, Italy), Mariaenrica Tine, Federica Pezzuto, Francesca Scalvenzi, Lorenzo Ciarrocchi, Fiorella Calabrese, Mariaenrica Tine

**PA1696 Late Breaking Abstract - Probe-based Confocal Laser Endomicroscopy (pCLE) As A Tool In Lung Cancer Diagnosis In Ecuador**  
EFRAIN SANCHEZ (guayaquil, Ecuador), Galo Chang, Elvis Matheus

**PA1697 Relationship between age and chemotherapy regimen for elderly patients with advanced lung cancer**  
Ritsuya Shiiba, Yoshihito Kogure, Hiroto Murao, Yuki Takigawa, Atsushi Torii, Arisa Yamada, Yuka Shinohara, Hidemasa Niwa, Masahiro Sano, Chiyo Kitagawa, Masahide Oki

**PA1698 Identification of predictive factors for early relapse in patients with unresectable stage III NSCLC receiving consolidation durvalumab after concurrent chemoradiation therapy**  
Jung Hyun Nam (Seoul, Republic of Korea), Chang Dong Yeo, Chan Kwon Park, Sung Kyoung Kim, Ju Sang Kim, Yong Hyun Kim, Jin Woo Kim, Seung Joon Kim, Sang Haak Lee, Hye Seon Kang

- PA1699** **Quantitative analysis of preoperative, intraoperative and postoperative circulating cell-free DNA in patients with resectable non-small cell lung cancer**  
Stylianios Gaitanakis (Nikaia, Greece), Anna Papadopoulou, Eleni Kokkotou, Timothy Sakellaridis, Periklis Tomos, Lamprini Stournara, Maria Mani, Eleutheria Ntalakou, Andriani Charpidou, Dimitra Grapsa
- PA1700** **Circulating tumor cells in patients with lung cancer universally indicate poor prognosis**  
Fukang Jin (Mannheim, Germany), Lei Zhu, Jingbo Shao, Mina Yakoub, Lukas Schmitt, Christoph Reißfelder, Sonja Loges, Axel Benner, Sebastian Schölch
- PA1701** **Significance of the Lung Immune Prognostic Index for Assessment of the Reliability of the Clinical Treatment Outcome for Advanced Non-Small-Cell Lung Cancer in Patients with COVID-19 Infection**  
Kristina Krpina (Strmec Samoborski, Croatia), Ena Tolić, Dora Darapi, Ana Hećimović, Dina Mihelčić Korte, Miroslav Samaržija, Lara Batičić
- PA1702** **CD8+ T cell trajectory subtypes determine clinical outcome and therapy response in LUAD**  
Benteng Deng (München, Germany), Jianlong Jia, Lingru Kang, Lilith Trassl, Daniela Dietel, Dmytro Sirokha, Andrea Schamberger, Asma Snkar, Georgios Stathopoulos, Isis Fernandez
- PA1703** **Extracellular vesicles derived from central nervous system suppresses antitumor immunity**  
Jiaoli Wang (Hangzhou (Zhejiang), China), Man Luo, Li-Min Wang, Zhi-Jian Cai
- PA1704** **The long-term outcome of epidermal growth factor receptor mutation in stage IV lung adenocarcinoma patients.**  
Chung-Jen Huang (New Taipei city, Taiwan), Justin Chen, An-Chen Feng, Cynthia Lin
- PA1705** **Prognostic implication of KRAS G12C mutation in a real-world KRAS mutated stage IV NSCLC cohort treated with immunotherapy in the Netherlands**  
Anneloes L. Noordhof (Leeuwarden, Netherlands), Esther M. Swart, Ronald A.M. Damhuis, Lizza E.L. Hendriks, Peter W.A. Kunst, Mieke J. Aarts, Wouter H. Van Geffen
- PA1706** **Exploration of anticancer drug response prediction model using patient derived organoids with ALK-positive lung cancer**  
Hyeong Jun Cho (Seoul, Republic of Korea), Sang-Yun Lee, Dong Woo Lee, Seung Joon Kim, Chang Dong Yeo
- PA1707** **Smoking status at time of diagnosis affects the efficacy of anti-PD-1/L1 therapy in patients with advanced non-small cell lung cancer**  
Kim Kyu Yean (Seoul, Republic of Korea), Kim Jin Woo, Yeo Chang Dong
- PA1708** **PD-L1 expression on NSCLC lung tumors is affected by the presence of COPD.**  
Martina Maria Ferrara (Padova, Italy), Mariaenrica Tine, Umberto Semenzato, Giulia Frasson, Davide Biondini, Marco Damin, Federica Pezzuto, Fiorella Calabrese, Simonetta Baraldo, Manuel G. Cosio, Marina Saetta
- PA1709** **Evaluation of adverse events of tremelimumab, a recently FDA-approved anti-CTLA-4 antibody for non-small cell lung cancer**  
Jing Huang (Chong qing, China), Yibei Zhao, Long Meng
- PA1710** **Possible Risk Factors for Immune Related Pneumonitis Relapses**  
Lidia Mendez Mangas (Sant Joan Despi, Spain), Alfredo Marin Muñoz, Isabel Brao Perez, Monica Arellano Vengochea, Arturo Navarro Martin, Miriam Nuñez Fernandez, Ramon Palmero Sanchez, Ernest Nadal Alforja, Salud Santos Perez, Susana Padrones Sanchez, Samantha Aso Gonzalez
- PA1711** **Clinical risk factors for checkpoint pneumonitis vs. other pneumonitis in lung cancer patients treated with checkpoint inhibitors**  
Lukas Wehlte (München, Germany), Lea Daisenberger, Julia Walter, Lucie Heinzerling, Thomas Pfluger, Amanda Tufman
- PA1712** **Exploiting the kynurenine pathway to combat platinum-resistant non-small cell lung cancer (NSCLC)**  
Medhi Wangpaichitr (Miami, United States), Chunjing Wu, George Theodore, Sydney Spector, Dan Nguyen, Lynn Feun, Niramol Savaraj
- PA1713** **Study of the efficacy of intravenous BCG in a metastatic lung adenocarcinoma mouse model.**  
Claudia Guerrero (Zaragoza, Spain), Eduardo Moreo, Santiago Uranga, Ana Belen Gomez, Carlos Martín, Nacho Aguiló
- PA1714** **Comparing the Effectiveness of Different Anti-angiogenetic Agents Combined with an EGFR-TKI in Metastatic Lung Adenocarcinoma**  
Chung-Wen Huang (Kaohsiung, Taiwan), Chih-Jen Yang, Ming-Ju Tsai, Jen-Yu Hung, Inn-Wen Chong

PS-16 in poster area

Session 192

16:00 - 17:30

Poster session: Pulmonary fibrosis: impact, diagnosis, and management

**Disease(s) :** [Interstitial lung diseases](#)**Method(s) :** Epidemiology Imaging Public health Endoscopy and interventional pulmonology General respiratory patient care Pulmonary function testing Pulmonary rehabilitation Physiology Palliative care**Tag(s) :** Clinical**Chairs :** Sara Tomassetti (Florence, Italy), Lurdes Planas Cerezales (Barcelona, Spain)**PA1715 Clinical use of telomere length in idiopathic pulmonary fibrosis**

Antoine Froidure (Bruxelles, Belgium), Trejsi Muça, Marie-Astrid Van Dievoet, Anabelle Decottignies

**Screening of first-degree relatives of IPF patients with a telomere-related gene mutation****PA1716** Tinne Goos (Leuven, Belgium), Nathalie Veyt, Evelien Van Hoof, Karen Rosier, Stefan Gogaert, Marie Vermant, Lynn Willems, Frederik Staels, Ilse Van Raemdonck, Sam Thierie, Emanuela Elsa Cortesi, Laurens J De Sadeleer, Jonas Yserbyt, Nico De Crem, Joseph Jacob, Marianne S Carlon, Johny Verschakelen, Adriana Dubbeldam, Anniek Corveleyn, Stijn E Verleden, Sascha Vermeer, Wim A Wuyts**Familial interstitial pneumonia: survival is independent of interstitial lung disease aetiology****PA1717** Deborah Dos Reis Estrella (Belo Horizonte (MG), Brazil), Eliane Viana Mancuzo, Ricardo De Amorim Corrêa, Regina Célia Carlos Tibana, Maria Raquel Soares, Carlos Alberto De Castro Pereira**Barriers and facilitators when talking about personal values, wishes and needs nearing the end-of-life. A qualitative exploration of a patient and partner perspective****PA1718** Lian Trapman (Zoelmond, Netherlands), L.M. Dijkman, J.C. Grutters, E. De Graaf, S.C.C.M. Teunissen**The development of an integrative palliative care intervention for patients with progressive pulmonary fibrosis: application of SUPPORT™(USA) to the Dutch setting****PA1719** Lian Trapman (Zoelmond, Netherlands), L.M. Dijkman, E. De Graaf, S.C.C.M. Teunissen, J.C. Grutters, Kathleen Lindell**Mortality and Lung Function Decline of Idiopathic Pulmonary Fibrosis Patient with Ezetimibe and Pirfenidone****PA1720** Jinhyung Cho (Seoul, Republic of Korea), Chanho Lee, Se Hyun Kwak, Young Sam Kim**A new instrument to assess disease-related fears in Interstitial Lung Disease (ILD): The ILD-Anxiety-Questionnaire (IAQ)****PA1721** Nina Piel (Berlin, Germany), Michael Kreuter, Klaus Kenn, Nikola Stenzel**Perspectives On Screening and early Treatment for Pulmonary Fibrosis: a qualitative study****PA1722** Laura Fabbri (London, United Kingdom), Gisli Jenkins, Louise Doran, Manpreet Bains**Preclinical idiopathic pulmonary fibrosis (IPF): a retrospective cohort study****PA1723** Tomohiro Bando (Seto, Japan), Reoto Takei, Jun Fukihara, Hajime Sasano, Yasuhiko Yamano, Toshiaki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Hiroto Hatabu, Junya Fukuoka, Takeshi Johkoh, Yasuhiro Kondoh**Impulse oscillometry assesses small airway disease and reveals peripheral lung pathology in pulmonary fibrosis****PA1724** Athena Gogali (Ioannina, Greece), Georgia Gkrepi, Christos Kyriakopoulos, Konstantinos Tatsis, Konstantinos Exarchos, Hara Tselepi, Konstantinos Kostikas**Short-term evolution of nutritional status in patients with idiopathic pulmonary fibrosis****PA1725** Giovanni Franco (Monza, Italy), Paola Faverio, Alessia Fumagalli, Sara Conti, Fabiana Madotto, Francesco Bini, Sergio Harari, Michele Mondoni, Tiberio Oggioni, Emanuela Barisone, Paolo Ceruti, Maria Chiara Papetti, Bruno Dino Bodini, Antonella Caminati, Angela Valentino, Stefano Centanni, Paola Lanzi, Matteo Della Zoppa, Silvia Crotti, Marco Grosso, Samir Giuseppe Sukkar, Denise Modena, Marco Andreoli, Roberta Nicali, Giulia Suigo, Sara Busnelli, Giuseppe Paciocco, Sara Lettieri, Lorenzo Giovanni Mantovani, Giancarlo Cesana, Alberto Pesci, Fabrizio Luppi**Shared multidisciplinary approach to the complex management of patients with pulmonary fibrosis and impact on time to multidisciplinary diagnosis, accessibility to antifibrotics and environment****PA1726** Mariam Naqvi (London, United Kingdom), Thomas Simpson, Alex West**Impact of pulmonary fibrosis on the lives of patients and carers in Ireland in 2022****PA1727** Colin Edwards (Dublin, Ireland), Nicola Cassidy, Daniel Sheahan, Gemma O'Dowd, Lindsay Brown, Katherine O'Reilly**Nintedanib side effect risk stratification: targeting nurse support at a single UK prescribing centre****PA1728** Carmine Ruggiero (Oxford, United Kingdom), Shakila Hussain, Karen Parsons, Sarah Poole, Michael Avoseh, Emily Fraser, Ling-Pei Ho, Peter Saunders, Rachel K. Hoyles**Factors associated with non-intervention with antifibrotic agents in IPF patients****PA1729** Maki Asami (Ube (Yamaguchi), Japan), Kazuki Hamada, Takeshi Abe, Keiji Oishi, Tsunahiko Hirano, Yoshiyuki Asai, Kazuto Matsunaga

- PA1730 Trans-bronchial cryobiopsy is superior to forceps biopsy for diagnosing both fibrotic and non-fibrotic interstitial lung diseases**  
Ophir Freund (Tel Aviv, Israel), Ori Wand, Sonia Schneer, Nevo Barel, Tamar Shalmon, Sarah Borsekofsky, Tzlil Hershko, Evgeni Gershman, Yochai Adir, Amir Bar-Shai, David Shitrit, Avraham Unterman
- PA1731 Interest of transbronchial lung cryobiopsies in patients with a HRCT pattern of probable UIP**  
Charlotte Menigoz (Nantes, France), Antoine Moui, Christine Sagan, Frédérique Corne, Nathanaël Carlier, Valentin Patarin, Claire Defrance, Renan Liberge, Olivier Morla, Arnaud Cavailles, Laurent Cellerin, F.Xavier Blanc, Stéphanie Dirou
- PA1732 Impact of a nurse-led antifibrotic prescribing service at a single interstitial lung disease specialist centre in the UK.**  
Katie Zakis (Manchester, United Kingdom), Helen Morris, Jenna Swale, Annie Barker, Theresa Garfoot, Kate Newman, Holly Montgomery, Janet Johnson, Pilar Rivera-Ortega
- PA1733 A retrospective analysis assessing the impact of blood monitoring for antifibrotic therapy prescribed for idiopathic pulmonary fibrosis and progressive pulmonary fibrosis**  
Mariam Naqvi (London, United Kingdom), Alexandra Lawrence, Annabel Healey, Joanne Dallas, Laura Chapman, Alex West
- PA1734 Correlation of pulmonary functional tests with data from thoracic high resolution tomography using lung texture analysis software in ILD.**  
Jacob Sellares Torres (Barcelona, Spain), Elvis Paul Matheus Ramírez, Maria Noboa Sevilla, Maria Benegas Urteaga, Alejandro Frino Garcia, Juanissi Turaren Gonzalez, Nancy Perez Rodas, Fernanda Hernandez Gonzalez, Marcelo Sanchez Gonzalez

## PS-17 in poster area

## Session 193

16:00 - 17:30

## Poster session: Sarcoidosis: challenges in disease assessment and management of complications

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#) [Sleep and breathing disorders](#)

Method(s) : Imaging General respiratory patient care Epidemiology Pulmonary function testing Physiology Pulmonary rehabilitation Public health

Tag(s) : Clinical

Chairs : Paolo Spagnolo (Padova (PD), Italy), Dominique Israel-Biet (Paris, France)

- PA1735 Long-term effectiveness of infliximab treatment in refractory sarcoidosis**  
Angéla Mikáczó (Nyírábrány, Hungary), Ildikó Horváth, László Brugós, Anna Sárközi
- PA1736 Lung Texture Analysis to phenotype Sarcoidosis**  
Andrew McCorkell (Belfast, United Kingdom), Cormac Mccool, Victoria Steele, Lisa Graham, Rory Kelly, Eoin Murtagh, Paul Minnis
- PA1737 Survival in sarcoidosis – 11 years of observation of 2625 patients.**  
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros
- PA1738 Cardiac and brain involvement in Sarcoidosis, Data from the Austrian registry**  
Claudia Guttman-Ducke (Wien, Austria), Christopher Milacek, Andreea-Nicoleta Avram, Dietrich Beitzke, Daniela Gompelmann, Marco Idzko
- PA1739 SARCOIDOSIS AND EMERGENCY HOSPITALIZATION : CAUSES AND PROGNOSIS**  
pierre gazengel (Bobigny, France), Florence Jeny, Sharon Mendes, Raphael Hindre, Julien Caliez, Olivia Freynet, Cecile Rotenberg, Morgane Didier, Frederic Adnet, Robin Dhote, Yves Cohen, Yurdagul Uzunhan, Diane Bouvry, Hilario Nunes
- PA1740 Pulmonary rehabilitation in sarcoidosis: a systematic review and meta-analysis**  
Estrella Caballeria Lamelas (Badalona (Barcelona), Spain), Xavier Alsina Restoy, Rodrigo Torres Castro, Elena Gimeno Santos, Lilian Solis Navarro, Joel Francesqui, Fernanda Hernández González, Manel Ramos Casals, Isabel Blanco, Jacobo Sellarès
- PA1741 Severe sarcoidosis: Management and prognosis**  
Soumaya Ben Saad (Ariana, Tunisia), Rihab Jebali, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritar
- PA1742 Monitoring thoracic sarcoidosis with cardiopulmonary exercise test and spirometry, their insights to nuclear imaging inflammatory activity**  
Chiara Torregiani (Trieste (TS), Italy), Matia Reale, Marco Confalonieri, Barbara Ruaro, Guido Maiello
- PA1743 Characteristics of sarcoidosis patients admitted to hospital – one center experience**  
Karol Bączek (Łódź, Poland), Joanna Miłkowska-Dymanowska, Wojciech Piotrowski
- PA1744 Therapeutic doses of efzofitimod significantly improve multiple pulmonary sarcoidosis efficacy measures**  
Nelson Kinnersley (Harpenden, United Kingdom), Abhijeeth Chandrasekaran, Pavithra Ramesh, Vis Niranjan, Sanjay Shukla, Robert P Baughman

- PA1745 Multicenter, randomized, double-blind, phase 2 study to assess the efficacy and safety of OATD-01, an oral inhibitor of chitinase-1 for the treatment of active pulmonary sarcoidosis.**  
Zbigniew Zasłona (Warszawa, Poland), Theodore Charitos, Barbara Dymek, Tomasz Rejczak, Adam Gołebiowski, Piotr Iwanowski, Marta Dudek, Samson Fung
- PA1746 Prevalence of refractory pulmonary sarcoidosis in Ukraine**  
Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavrysyuk, Yaroslav Dziublyk, Galyna Gumeniuk
- PA1747 Evaluation of bone mineral density and fracture risk in sarcoidosis population**  
Paolo Cameli (Siena (SI), Italy), Carla Caffarelli, Antonella Al Refaie, Elisa Giglio, Giulio Manzana, Caterina Mondillo, Yari Noacco, Carmela Olivieri, Laura Bergantini, Miriana D'Alessandro, Elena Bargagli, Stefano Gonnelli
- PA1748 Prevalence and evolution of airway obstruction in sarcoidosis**  
Gianmarco Gasparini (Jesi, Italy), Lara Letizia Latini, Federica Agosti, Federico Mei, Lina Zuccatosta, Francesco Maria Porcarelli, Francesca Gonnelli, Martina Bonifazi
- PA1749 Clinical characterisation of thoracic sarcoidosis in Spain**  
Joel Francesqui (Barcelona, Spain), Elena Bollo, Ana Villar, Pablo Flórez, Eva Balcells, Gema Castaño, Javier Pinillos, Raul Godoy, Belén López-Muñiz, María José Soler, Diego M. Castillo, Albert Rafecas, Pablo Mariscal, Paloma Millan, Karina Portillo, Jacobo Sellares
- PA1750 Sarcoidosis and Obstructive Sleep Apnoea: CPAP's impact on daytime sleepiness and fatigue**  
Lorena Gallotti (Naples, Italy), Jessica Esposito, Stefania De Marco, Lucia Abbagnale, Marta Coppola, Claudio Candia, Anna Agnese Stanziola
- PA1751 Prevalence of cardiac involvement in a cohort of patients with Sarcoidosis**  
Lorena Gallotti (Naples, Italy), Claudio Candia, Francesco Coppa, Santo Dellegrottaglie, Anna Agnese Stanziola
- PA1752 Clinical and radiological presentation of patients treated for sarcoidosis**  
Nicol Bernardinello (Trecenta (RO), Italy), Simone Petrarulo, India Sofia Dalla Rosa, Gioele Castelli, Elisabetta Coconcelli, Elisabetta Balestro, Paolo Spagnolo
- PA1753 Prevalence of comorbidities in patients with sarcoidosis: a single center study**  
Lorena Gallotti (Naples, Italy), Claudio Candia, Filomena Tafuro, Ciro Apicella, Ferdinando Damato, Anna Agnese Stanziola
- PA1754 Serum D-dimer levels as an activity marker in sarcoidosis**  
Halil Yanardag (Istanbul, Turkey), Muammer Bilir, Cuneyt Tetikkurt, Emre Yanardag

## PS-18 in poster area

## Session 194

16:00 - 17:30

## Poster session: Physiology in pulmonary hypertension

Disease(s) : Pulmonary vascular diseases

Method(s) : Physiology Imaging Pulmonary function testing Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Anton Vonk Noordegraaf (Amsterdam, Netherlands), Stéphanie Saxer (Zürich, Switzerland)

- PA1755 Clinical relevance of exercise pulmonary arterial compliance**  
Katarina Zeder (Graz, Austria), Chiara Banfi, Vasile Foris, Teresa Sassmann, Andrea Berghold, Horst Olschewski, Gabor Kovacs, Philipp Douschan
- PA1756 Is the estimation of peak oxygen consumption reliable using the six-minute walk test in patients with pulmonary hypertension?**  
Estrella Caballeria Lamelas (Badalona (Barcelona), Spain), Rodrigo Torres Castro, Elena Gimeno Santos, Maria Caridad Mata Salvador, Agustín Roberto García, Xavier Alsina Restoy, Clara Martín Ontiyuelo, Ana María Ramírez Gallardo, Joan Albert Barberà, Isabel Blanco
- PA1757 A qualitative exploration of pulmonary hypertension patients' views and experience with a remotely delivered home-based exercise program**  
Ciara McCormack (Navan, Ireland), Brona Kehoe, Niall Moyna, Sarah Cullivan, Brian Mccullagh, Sean Gaine, Sarah Hardcastle
- PA1758 The one-minute sit-to-stand test (1-min STST) and its relationship to quality of life (QoL) in patients with pulmonary hypertension (PH)**  
Christina Kronberger (Vienna, Austria), Roya Anahita Mousavi, Begüm Öztürk, Robin Willixhofer, Roza Badr Eslam
- PA1759 Inspiratory muscle training in patients with pulmonary hypertension: a double-blind randomized controlled trial**  
Elaine Vieira (Sao Caetano do Sul (SP), Brazil), João Vitor Rolim, Ivan Ivanaga, Vitor Souza, Priscila Sperandio, Eloara Ferreira, Jaqueline Ota-Arakaki, Luiz Eduardo Nery, Roberta Ramos

PA1760	<b>Reproducibility of CPET variables in subjects with pulmonary arterial hypertension: Preliminary data from ADVANCE CAPACITY</b> Carrie Ferguson (Torrance, United States), Janos Porszasz, Louis Holdstock, Youlan Rao, David Yehle, Raymond Benza, Ronald Oudiz
PA1761	<b>A pilot study of a digital 1-Minute Walk Test as a novel decentralised endpoint in pulmonary hypertension research</b> Joseph Newman (Cambridge, United Kingdom), Lucy Robertson, Jean Gosbee, Gary Polwarth, Shaun Clayton, Iain Armstrong, Elisa Ferrer-Mallol, Sandra Komarzynski, Elin Haf Davies, Mark Toshner
PA1762	<b>Perceived barriers to physical activity in pulmonary hypertension</b> Layse Nakazato (Campinas, Brazil), Vitória Veronez, Tatiana Kiyota, Paulo Mendes, Marcos Moreira, Mônica Pereira
PA1763	<b>Usefulness of Heart Rate variability measurement during 6-MWT in Pulmonary Arterial Hypertension</b> Andrea Lombi (Vedano al Lambro (MB), Italy), Chiara Milano, Giulia Pittalis, Marta Tundo, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Paola Faverio, Fabrizio Luppi, Giuseppe Paciocco
PA1764	<b>Correlation between lung vessel morphology and prognostic markers in pre-capillary pulmonary hypertension</b> Michael Pienn (Graz, Austria), Roman J. Gertz, Felix Gerhardt, Jan R. Kröger, Hasan Zaytoun, Robert P. Reimer, Anil Kaplan, Max Wissmüller, Gabor Kovacs, Stephan Rosenkranz, Horst Olschewski, Alexander C. Bunc
PA1765	<b>Increased right ventricular myocardial strain in unaffected adults carrying gene mutations predisposing to pulmonary arterial hypertension</b> Eszter Nóra Tóth (Amsterdam, Netherlands), Lucas Celant, Samara Jansen, Lilian Meijboom, Frances S De Man, Anton Vonk Noordegraaf, Harm Jan Bogaard
PA1766	<b>Impact of pulmonary arterial hypertension therapies on gas exchange in portopulmonary hypertension</b> Thomas Lacoste-Palasset (Le Kremlin-Bicetre, France), Antoine Beurnier, Audrey Baron, Marie-Caroline Certain, Xavier Jaïs, Anne Roche, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale
PA1767	<b>The impact of tricuspid regurgitation on the non-invasive assessment of stroke volume derived from cardiac magnetic resonance in pulmonary hypertension</b> Andrea Baccelli (Milano, Italy), Deepa Gopalan, Gulammehdi Haji, Rachel Davies, Michele Mondoni, Stefano Centanni, Luke Howard, Francesco Lo Giudice
PA1768	<b>Relationship between right ventricular longitudinal strain using cardiac magnetic resonance and haemodynamics in patients with pulmonary hypertension</b> Yoshihiro Sato (Toyoake, Japan), Shigefumi Fukui, Hideki Kawai, Akira Yamada, Masayoshi Sarai, Hideo Izawa
PA1769	<b>Right ventricular strain-time curves in patients with pulmonary arterial hypertension – an exploratory analysis</b> Julian Pott (Hamburg, Germany), Dora Csengeri, Jonna Ostermann, Hans Klose, Christoph Sinning, Lars Harbaum
PA1770	<b>Prognostic impact of RV-PA coupling in patients with mild-or exercise pulmonary hypertension</b> Teresa Sassmann (Graz, Austria), Antonia Eger, Vasile Foris, Nikolaus John, Katarina Zeder, Manuel Richter, Khodr Tello, Horst Olschewski, Gabor Kovacs, Philipp Douschan
PA1771	<b>Right ventricular longitudinal strain using cardiac magnetic resonance for risk stratification in patients with pulmonary hypertension</b> Yoshihiro Sato (Toyoake, Japan), Shigefumi Fukui, Hideki Kawai, Akira Yamada, Masayoshi Sarai, Hideo Izawa
PA1772	<b>Concordance of right ventricular evaluation by pocket ultrasound and transthoracic echocardiography in patients with pulmonary hypertension.</b> Pamela Mercado velazquez (mexico city, Mexico), Estrella Jor Esteban Estrella, José Luis Hernández Oropeza, Ivette Buendía Roldán, Tatiana Sofía Rodríguez Reyna, Consuelo Orihuela Sandoval, Jesús Rodríguez Andoney
PA1773	<b>The effect of high altitude (2500m) on incremental cycling exercise in patients with pulmonary vascular disease. A randomized controlled cross-over trial</b> Julian Müller (Zürich, Switzerland), Simon R. Schneider, Meret Bauer, Laura Mayer, Lea Lüönd, Tanja Ulrich, Michael Furian, Aglaia Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich
PA1774	<b>Pulmonary arterial wedge pressure increase during exercise in patients with pulmonary vascular disease</b> Julian Müller (Zürich, Switzerland), Laura Mayer, Simon R. Schneide, Anna Titz, Esther I. Schwarz, Stephanie Saxer, Michael Furian, Ekkehard Grünig, Silvia Ulrich, Mona Lichtblau

PS-19 in poster area

Session 195

16:00 - 17:30

Poster session: Pleural interventions and beyond: what's new?

Disease(s) : Respiratory critical care Thoracic oncology Airway diseases Interstitial lung diseases

Method(s) : Endoscopy and interventional pulmonology General respiratory patient care Physiology Surgery

Tag(s) : Clinical



**Chairs :** Anand Sundaralingam (Oxford, United Kingdom), Chair to be confirmed

<b>PA1775</b>	<b>Retrospective risk factor analysis for re-expansion pulmonary oedema after therapeutic pleural effusion drainage at a single centre</b> Sharan Kumar (Cambridge, United Kingdom), Emilia Swietlik, Jurgen Herre
<b>PA1776</b>	<b>Bronchial fistulas complicating pneumonectomy: predictors and treatment</b> Sarra Zairi (Tunis, Tunisia), selma madhi, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Sonia Ouerghi, Adel Marghli
<b>PA1777</b>	<b>Retrospective comparison of the clinical outcomes between low and standard starting doses of intrapleural tissue plasminogen activator in pleural infection</b> Ka Pang Chan (Hong Kong, Hong Kong), Kwun Cheung Ling, Christopher Chan, Charlotte Ho Ying Lau, Ka Ching Ng, Lai Ping Lo, Wing Ho Yip, Jenny Chun Li Ngai, Kin Wang To, Fanny Wai San Ko, David Shu Cheong Hui
<b>PA1778</b>	<b>Preventing future chest drain related deaths</b> Tanjila Khan (Harrow, United Kingdom), Clare Ross, Rudy Sinharay, Mirae Park, Anne O'Mahony, Christina Torrealba, Carl Reynolds
<b>PA1779</b>	<b>Treatment and clinical outcomes in pleural infection: preliminary results from a multi-centre study</b> Chiara Fattori (Ancona, Italy), Luca Piergentili, Martina Bonifazi, Francesca Barbisan, Gaia Goteri, Lina Zuccatosta, Alessandro Di Marco Berardino, Michele Sediari, Francesca Gonnelli, Laura Cirilli, Francesco Maria Porcarelli, Piero Emilio Balbo, Elena Paracchini, Giovanna Elisiana Carpagnano, Stefano Gasparini, Giampietro Marchetti, Federico Mei
<b>PA1780</b>	<b>To determine the efficacy of autologous blood patch therapy in reducing air leak in secondary spontaneous pneumothorax.</b> Jenny Chun Li Ngai (Hong Kong, Hong Kong), Wai Lam Law, Wai Kei Lam, Ka Pang Chan, Susanna Ss Ng, Wing Ho Yip, Rachel L.P Lo, Joyce K.C Ng, Chin Wing Yu, Fanny W.S Ko, Johnny W Chan, David S.C Hui, Y C G Lee
<b>PA1781</b>	<b>Safety of Ultrasound-guided Medical Thoracoscopy in Patients with Minimal Pleural Effusion</b> Juei Yang Ma (Kaohsiung, Taiwan), Ying Ming Tsai, Wei An Chang, Pei Chien Tsai, Yen Lin Chiu, Ya-Ling Hsu, Yung-Chi Huang, Chai-Tung Ong
<b>PA1782</b>	<b>Intrapleural instillation of r-tPA in complicated parapneumonic effusion or empyema: a single center experience</b> Ourania Papaioannou (Patras, Greece), Electra Koulousousa, Theodoros Karampitsakos, Panagiota Tsiri, Georgios Tsirikos, Vasilina Sotiropoulou, Eva Theochari, Ioannis Christopoulos, Matthaïos Katsaras, Eirini Zarkadi, Elli Malakounidou, Fotios Sampsonas, Argyrios Tzouvelekis
<b>PA1783</b>	<b>Combination of erector spinae nerve block (ESP) and serratus plane nerve block (SPB) in opioid-free medical thoracoscopy (MT).</b> Giuseppe Adamo (PALERMO, Italy), Marta Amata, Giuseppe Arcoleo, Maria Rosaria Bonsignore, Patrizia Mazzotta, Francesco Tarantino, Baldassare Renda
<b>PA1784</b>	<b>Implementation of a proforma for invasive pleural procedures at a district general hospital in the United Kingdom</b> Swetha John (Finchampstead, United Kingdom), Nur Ilyana Aini Mohamed Jamil, Chung-Mei Maggie Cheung, Dipak Mukherjee, Kanwar Pannu
<b>PA1785</b>	<b>Diagnostic Utility of Medical Thoracoscopy in Undiagnosed Pleural effusion</b> Ranganath Thippanahalli Ganga (Raipur (Chhattisgarh), India), Vikas Kumar, Ajoy Behera, Dibakar Sahu, Rakesh Gupta, Amit Rath, Saisoma Kiran
<b>PA1786</b>	<b>High flow oxygen vs standard management during medical thoracoscopy - a randomised controlled trial</b> Andrei Darie (Basel, Switzerland), Leticia Grize, Kathleen Jahn, Anna Salina, Jonathan Röcken, Matthias Herrmann, Maria Pascarella, Vivian Suarez, Werner Strobel, Michael Tamm, Daiana Stolz
<b>PA1787</b>	<b>Regional review of practice in endobronchial stenting in central airways obstruction</b> Daniel Crowle (Callington, United Kingdom), Parniya Arooj, Joel Eyekpegaha, Osama Elzain, Mohammad Awan, Francesco Sellitri, Priyadharshanan Ariyaratnam, Joseph Rahamim, Adrian Marchbank, Cyrus Daneshvar
<b>PA1788</b>	<b>To evaluate diagnostic yield of small cup biopsy forceps for trans bronchial lung biopsy in adult patients of post viral fibrotic lung disease in post viral/covid era.</b> Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Charul Dabral, Manya Narain Tyagi
<b>PA1789</b>	<b>A study of airway abnormalities and characterization of lesions at flexible bronchoscopy in Nepalese patients presenting with chronic cough with normal radiological imaging</b> Rejina Shahi (dharan, Nepal), Deebya Raj Mishra, Narendra Bhatta, Avatar Verma, Gunjan Regmi
<b>PA1790</b>	<b>EBUS-TBNA in octogenarians: Diagnostic yield, sedation and safety. An 8 month, single center, experience</b> Fotios Sampsonas (Patra, Greece), Georgios Tsirikos, Matthaïos Katsaras, Theodoros Karampitsakos, Ourania Papaioannou, Panagiota Tsiri, Ilektra Koulousousa, Vasilina Sotiropoulou, Eirini Zarkadi, Elli Malakounidou, Argyrios Tzouvelekis

**PA1791 Conscious sedation in bronchoscopy: A randomized controlled trial**  
Zied Moatemri (Ariana, Tunisia), Lenda Ben Hmida, Islam Mejri, Marwa Kacem, Selsabil Daboussi, Samira Mhamdi, Chiraz Aichaouia

**PA1792 EBUS-TBNA for the diagnosis of lung parenchymal lesions: a 10 year analysis**  
Muhammad Bilal Khan Niazi (Smethwick, United Kingdom), Isobel Dugdale, See Ling Tan, Muhammad Niazi, Abhimanyu Lal

**PA1793 Diagnostic yield and safety of EBUS-TBNA: single centre experience over 10 years**  
Muhammad Bilal Khan Niazi (Smethwick, United Kingdom), Isobel Dugdale, See Ling Tan, Muhammad Niazi, Abhimanyu Lal

## PS-2 in poster area

## Session 196

16:00 - 17:30

## Poster session: Respiratory muscle function and rehabilitation

**Disease(s) :** [Interstitial lung diseases](#) [Sleep and breathing disorders](#) [Airway diseases](#) [Pulmonary vascular diseases](#)

**Method(s) :** Imaging Physiology Pulmonary function testing Pulmonary rehabilitation Cell and molecular biology General respiratory patient care Palliative care

**Tag(s) :** Clinical

**Chairs :** Christina M. Spengler (Zürich, Switzerland), Mathieu Marillier (Echirolles, France)

**PA1794 Breathing Under Pressure: An exploratory analysis of differences in respiratory muscle activity and work of breathing during exercise in COPD and ILD**  
Jeferson George Ferreira (São Paulo (SP), Brazil), Vinícius Carlos Iamonti, Mayra Caleffi Pereira, Renata Pletsch-Assunção, Marcelo Ceneviva Macchione, Pauliane Vieira Santana, Letícia Zumpano Cardenas, Pedro Caruso, Carlos Roberto Ribeiro Carvalho, André Luis Pereira Albuquerque

**PA1795 Muscle oxidative capacity is not impaired in smokers with preserved ratio impaired spirometry**  
Alessandra Adami (Kingston, United States), Robert A. Calmelat, Richard Casaburi, Harry B. Rossiter

**PA1796 Effect of beta-alanine supplementation on histidine-containing dipeptides in persons with COPD.**  
Jana De Brandt (Umeå, Sweden), Thibaux Van Der Stede, Jan Spaas, Sarah De Jager, Chris Burtin, Martijn A. Spruit, Wim Derave

**PA1797 High muscle quality index in early follow up predicts 1 year recovery following hospitalisation for COVID-19**  
Hamish McAuley (Leicester, United Kingdom), Cara Flynn, Lorna Latimer, George Mills, Molly Baldwin, Charlotte E Bolton, Christopher E Brightling, Omer Elneima, Paul L Greenhaff, William D-C Man, Sally J Singh, Michael Steiner, Louise V Wain, Janet M Lord, Rachael A Evans, Neil J Greening

**PA1798 Diaphragm mobility in patients with systemic sclerosis**  
Anja Ljilja Posavec (Zagreb, Croatia), Boris Karanović, Ivana Ježić, Renata Huzjan Korunić, Josip Tečer, Stela Hrkač, Joško Mitrović, Nevenka Piskac Živković

**PA1799 A simplified method of twitch mouth pressure measurement for the diagnosis of diaphragmatic dysfunction**  
Georgia Mitropoulou (Prilly, Switzerland), Maura Prella, Raphaël Heinzer

**PA1800 Sarcopenic muscle extracellular matrix dictates muscle adaptations in a 3D-engineered muscle model of COPD**  
Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Efpraxia Kritikaki, Gerasimos Terzis, Ioannis Vogiatzis

**PA1801 Can 05 minutes of daily 'Om' chanting increase the respiratory muscle endurance?**  
NEERJA SHASTRI (Jaipur, India), Ketaki Poorey, Vishwas Mahajan

**PA1802 Muscle oxidative capacity is not different in COPD with and without treated chronic respiratory failure**  
Alessandra Adami (Kingston, United States), Michele Vitacca, Harry B. Rossiter, Alessandro Cavicchia, Carla Simonelli, Massimo Venturelli, Mara Paneroni

**PA1803 Effect of PEP therapy on lung volumes and health outcomes in adults with chest trauma: a systematic review and meta-analysis**  
Kerrie Saliba (Hammondville, Australia), Felicity Blackstock, Bredge Mccarren, Clarice Tang

**PA1804 Blunted vascular response to pulmonary rehabilitation in COPD patients and impaired exercise-induced mobilization of endothelial-colony forming cells**  
Elodie Desplanche (Montpellier, France), Léo Blervaque, Sven Günther, Maxime Gruet, Aurélien Philippe, Jeanne Rancic, Nicolas Gendron, Christophe Hédon, Antonia Perez-Martin, Anne Virsolvy, Olivier Cazorla, Yves Dauvilliers, Maurice Hayot, Arnaud Bourdin, Elisa Rossi, David Smadja, Farès Gouzi

**PA1805 The effect of rehabilitation on total lung volume and blood vessel volumes in long covid**  
Wendel Dierckx (Kontich, Belgium), Kris Ides, Yinka De Meyer, Erik Franck, Eline Lauwers, Benjamin Lavon, Jan De Backer, Bitaj Hajian, Wilfried De Backer

- PA1806** **Effect of Exercise Training on Prognosis in Community-Acquired Pneumonia: A Randomised Controlled Trial**  
Camilla Koch Ryrso (Frederiksberg, Denmark), Daniel Faurholt-Jepsen, Christian Ritz, Maria Hein Hegelund, Arnold Matovu Dungu, Bente Klarlund Pedersen, Rikke Krogh-Madsen, Birgitte Lindegaard
- PA1807** **Positional Changes in Respiratory Mechanics in Patients with Severe Obesity**  
Michael Cheng (Broadway (NSW), Australia), Anne Rossel, Amanda Piper, Patrick Murphy, Nicholas Hart, Joerg Steier
- PA1808** **Dissociation between dyspnea grade and maximum oxygen consumption**  
Mercedes Carrasco Sánchez (Móstoles, Madrid, Spain), Valentina Pérez Méndez, Anna Rebeca Hernández González, Javier Carrillo Hernández-Rubio, Angelika Szabó, Estefanía Llopis Pastor, Mercedes García-Salmones Martín
- PA1809** **Acute mountain sickness in women – A pilot study**  
Aijan Taalaibekova (Bishkek, Kyrgyzstan), Michelle Meyer, Stefanie Ulrich, Gulzada Mirzalieva, Maamed Mademilov, Talant M. Sooronbaev, Silvia Ulrich, Konrad E. Bloch, Michael Furian
- PA1810** **On the beneficial effects of supplemental O2 in fibrotic interstitial lung disease: did we forget the brain?**  
Mathieu Marillier (Echirolles, France), Mathieu Gruet, Anne-Catherine Bernard, Benoit Champigneulle, Samuel Vergès, Onofre Moran-Mendoza, J. Alberto Neder
- PA1811** **Impact of oxygen therapy and noninvasive ventilation on sympathetic drive in COPD patients.**  
Binaya Regmi (Aachen, Germany), Faniry Ratsimba, Benedikt Jörn, Mehdi Senol, Oscar Gorol, Lukas Niekrenz, Ayham Daher, Vaughan Macefield, Michael Dreher, Jens Spiesshoefer
- PA1812** **Impact of blunted cerebral oxygenation on COPD patients' functional performance**  
Afroditi Boutou (Thessaloniki, Greece), Marieta Theodorakopoulou, Aggelos Koutlas, Andreas Zafeiridis, Panteleimon Sarafidis, Konstantina Dipla
- PA1813** **Late Breaking Abstract - Inspiratory muscle strength training improves dyspnea related to diaphragm muscle weakness in patients with long COVID-19**  
Jens Spiesshoefer (Aachen, Germany), Binaya Regmi, Rainer Glückl, Michael Dreher

PS-20 in poster area

Session 197

16:00 - 17:30

## Poster session: Ultrasound in respiratory medicine

Disease(s) : [Interstitial lung diseases](#) [Respiratory critical care](#) [Sleep and breathing disorders](#) [Thoracic oncology](#) [Airway diseases](#)

Method(s) : Imaging Respiratory intensive care General respiratory patient care Pulmonary rehabilitation Endoscopy and interventional pulmonology Epidemiology Public health Surgery

Tag(s) : Clinical

Chairs : Maged Hassan (Alexandria, Egypt), Casper Falster (Odense, Denmark)

- PA1814** **Validity evidence of the 2022 ERS thoracic ultrasound Objective Structured Clinical Examination (OSCE)**  
Pia Iben Pietersen (Odense C, Denmark), Rahul Bhatnagar, Freja Andreasen, Lars Konge, Christian Laursen, Najib M. Rahman, Anders B. Nielsen

- PA1815** **DIAPHRAGMATIC CONTRACTION SPEED AT FOLLOW-UP OF PATIENTS ADMITTED FOR MYASTHENIA GRAVIS**  
Santos Ferrer Espinosa (Valencia, Spain), Antonio Quezada Reynoso, Jesus Sancho Chinesta, Juan Carbonell Asins, Jaime Signes-Costa Miñana

- PA1816** **Use of Diaphragmatic Ultrasound to evaluate respiratory function in patients with Amyotrophic Lateral Sclerosis**  
Isabel Martínez González-Posada (Oviedo, Spain), Juan Cascón Hernández, Pablo Lozano Cuesta, Ramón Fernández Alvarez, Lucía García Alfonso, Francisco Julián López González, Miguel Ariza Prota, Inés Ruiz Álvarez, Ina Guerassimova, Ángela Lanza Martínez, Laura Martínez Vega, Juan Nieves Salceda, Laura Abad Chamorro, Eduardo Sanchez Vázquez, Patricia Alvarez Alvarez, Maria Rodil Riera

- PA1817** **Survey on lung ultrasound usage by portuguese pulmonologists**  
Maria Beatriz Dias Ferraz (Porto, Portugal), Bruno S. Silva, Filipa Correia, Maria Inês Costa, Maria Esteves Brandão, Nuno Cortesão

- PA1818** **Pleural irregularity and diaphragm mobility among patients with systemic sclerosis**  
Anja Ljilja Posavec (Zagreb, Croatia), Boris Karanović, Ivana Ježić, Renata Huzjan Korunić, Nevenka Piskač Živković, Josip Tečer, Stela Hrkač, Joško Mitrović

- PA1819** **Lung ultrasound based prediction of CT-scan Severity Score in COVID-19**  
Panaiotis Finamore (Roma (RM), Italy), Emanuele Gilardi, Moises Muley, Tommaso Grandi, Silvia Navarin, Michela Orrù, Chiara Bucci, Simone Scarlata, Francesco Travaglino, Federica Sambuco

- PA1820** **Comparison of lung ultrasound findings in patients with pulmonary tuberculosis and lobar pneumonia: a case-control study.**  
Uma Devaraj (Bangalore (Karnataka), India), Priya Ramachandran, Kavitha Venkatnarayan, Chitra Veluthat, Uma Maheswari K
- PA1821** **Role of Lung Ultrasound in detection and assessment of severity of ILD in patients with Systemic sclerosis**  
Richa Gupta (Vellore (Tamil Nadu), India), Davis Joseph K J, Avinash Nair, John Mathew, Manisha Mane
- PA1822** **Diaphragm sonography as an educational aid in CPAP and NIMV treatment**  
Angelo Longoni (Mariano Comense (CO), Italy), Carla Bassino, Tiziana Cappelletti, Francesca Frassanito, Lorenza Fusetti, Giacomo Concas, Mariele Vago, Antonio Paddeu
- PA1823** **US training system for ultrasound-guided thoracic interventions**  
Ana Belén Llanos Gonzalez (La Orotava, Spain), Natalia Arteaga-Marrero, Enrique Villa, Orlando Acosta Fernández, Juan Bautista Ruiz-Alzola, Javier González-Fernández
- PA1824** **Diagnostic accuracy of lung ultrasound with elastography in predicting malignant origin of pleural effusions in an emergency department**  
Rune Wiig (Odense C, Denmark), Casper Falster, Niels Jacobsen, Stefan Posth, August Emil Licht, Christian Laursen
- PA1825** **Quantitative US echogenicity to differentiate exudate from transudate pleural effusion**  
Alaa Amin (Alexandria, Egypt), Mona El Hoshy, Maged Hassan
- PA1826** **Difference in strain elastosonography between benign and malignant peripheral lung lesions**  
Ahmed Farag Abouelnour (Alexandria, Egypt), Mona Saeed El-Houshy, Essam Gouda Hassanein, Ayman Ibrahim Baess, Rania Ahmad Sweed, Doaa Mokhtar Emará
- PA1827** **A retrospective review of the sonographic features of rheumatoid pleuritis.**  
Hui Guo (Northcote (VIC), Australia), Zin Sein, Beenish Iqbal, Dinesh Addala, Anand Sundaralingam, Poppy Denniston, Najib Rahman
- PA1828** **Replacing fluoroscopy with ultrasound to evaluate diaphragm excursion? A method comparative study.**  
Søren Helbo Skaarup (Aarhus C, Denmark), Peter Juhl-Olsen, Brian Bridal Løgstrup
- PA1829** **Assessing the accuracy of pleural puncture sites as determined by clinic-radiological examination versus Lung Ultrasound- a prospective study.**  
Naveen Dutt (Jodhpur (Rajasthan), India), Shahir Asfahan, Nishant Kumar Chauhan, Ramniwas -, Mahendra Kumar Garg, Pawan Kumar Garg, Gopal Krishna Bohra, Nitin Kumar Bajpai
- PA1830** **Point-of-care ultrasound for the assessment of subglottic and cervical tracheal stenosis: A Prospective, Multicenter, Exploratory Study**  
Mingming Deng (Beijing, China), Gang Hou, Jieru Lin
- PA1831** **Validation of transthoracic shear-wave ultrasound elastography in diagnosing pleural lesions**  
Yao-Wen Kuo (Taipei City, Taiwan), Yen-Lin Chen, Huey-Dong Wu, Hao-Chien Wang
- PA1832** **Evaluation Of Atherosclerosis As A Risk Factor in COPD Patients By Measuring The Carotis Tunica Intima-Media Thickness.**  
Ali Firinciogullari (Nicosia, Cyprus), Hakan Ertürk, Mujgan Firinciogullari, Cigdem Biber
- PA1833** **Comparison of diagnostic yield and complications in ultrasound-guided thoracocentesis versus non-ultrasound guided thoracocentesis in a Level 3 Hospital**  
Jack McCarthy (Dub,in, Ireland), Niamh Boyle, Caitlyn Paclibar, Colm Quigley

## PS-3 in poster area

## Session 198

16:00 - 17:30

## Poster session: New insights and biomarkers in chronic obstructive pulmonary disease and epithelial disorders

Disease(s) : Airway diseases Thoracic oncology Interstitial lung diseases

Method(s) : Cell and molecular biology Epidemiology Pulmonary function testing General respiratory patient care Physiology

Tag(s) : Clinical, Translational

Chairs : Anita Somborac Bačura (Zagreb, Croatia), Audrey Joannes (RENNES, France)

- PA1834** **Exercise improves muscle function in COPD by affecting MSTN expression**  
Lijiao Zhang (Kunming, China), Jingge Qu, Danyang Li, Yafei Rao, Yongchang Sun

- PA1835 Genetic predisposition for low functional status in COPD**  
Rui Marçalo (Aveiro, Portugal), Guilherme Rodrigues, Miguel Pinheiro, Sonya Neto, Sofia L. Marques, Paula Simão, Vitória Martins, Lília Andrade, Maria Aurora Mendes, Vera Afreixo, Gabriela Moura, Alda Marques
- 
- PA1836 Clinically blind proteomic clustering is able to identify COPD exacerbations**  
César Jessé Enriquez-Rodríguez (Barcelona, Spain), Carme Casadevall, Sergi Pascual-Guardia, Diego Rodríguez-Chiaradia, Esther Barreiro, Joaquin Gea
- 
- PA1837 Identification of genes and master regulators driving COPD progression**  
Sobia Idrees (Sydney, Australia), Prabuddha Pathinayake, Alen Faiz, Peter Wark, Philip Hansbro
- 
- PA1838 D-dimer in COPD out-patients: Distribution, association with mortality and effect modification by anticoagulant therapy. A preplanned, published protocol cohort study.**  
Peter Kamstrup (Hellerup, Denmark), Pradeesh Sivapalan, Christian Rønn, Ema Rastoder, Daniel Modin, Anna Kjør Kristensen, Elisabeth Bendstrup, Rikke Sørensen, Tor Biering-Sørensen, Charlotte Ulrik, Jørgen Vestbo, Jens-Ulrik S. Jensen
- 
- PA1839 Smoking-dependent association of serum brain-derived neurotrophic factor (BDNF) with the pulmonary function test parameters in COPD**  
Elina Aleksandrova (Stara Zagora, Bulgaria), Dimo Dimov, Tanya Tacheva, Kahan Celik, Tatyana Vlaykova
- 
- PA1840 Identification of a panel of circulating miRNAs for the detection of COPD**  
Noemi Cerón Pisa (Palma, Illes Balears, Spain), Amanda Iglesias, Aina Martín-Medina, Meritxell López, Josep Luis Valera, Angel Rios, Rocío Martínez, Aarne Fleischer, Nuria Toledo, Jaume Sauleda
- 
- PA1841 Identification of novel Hedgehog signalling modulators altered in COPD patients**  
Laure M. G. PETIT (Reims, France), Randa Belgacemi, Julien Ancel, Pauline Mulette, Audrey Brisebarre, Myriam Polette, Gaëtan Deslée, Jeanne-Marie Perotin, Valérian Dormoy
- 
- PA1842 Increasing the diagnostic yield in Primary Ciliary Dyskinesia via whole gene sequencing**  
Lizi Briggs (Chelsea, United Kingdom), Cátia Brandao, Andrew Fleming, Matthew Edwards, Steven Müller, Ellen Quinn, Wilkinson Sam, Andrew Rogers, Ranjit Rai, Thomas Burgoyne, Siobahn Carr, Claire Hogg, Ricardo Jose, Michael Loebinger, Amelia Shoemark, Hannah M Mitchinson, Shibu John, Deborah Morris-Rosendahl
- 
- PA1843 Combined approaches including long-read sequencing address the diagnostic challenge of HYDIN in primary ciliary dyskinesia**  
Deborah Morris-Rosendahl (London, United Kingdom), Andrew Fleming, Miranda Galey, Lizi Briggs, Claire Hogg, Matthew Edwards, Shibu John, Sam Wilkinson, Ellie Quinn, Ranjit Rai, Tom Burgoyne, Andy Rogers, Mitali Patel, Paul Griffin, Steven Muller, Siobhan Carr, Michael Loebinger, Jane Lucas, Anand Shah, Ricardo Jose, Hannah Mitchison, Amelia Shoemark, Danny Miller
- 
- PA1844 Primary cilium (PC) associated BBSome gene 1, 7 and 9 expression during the 2D and 3D culture of mesothelial cells under oxidative stress.**  
Rajesh Jagirdar (Larissa, Greece), Erasmia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Ourania Kotsious, Chrissy Hatzoglou, Sotirios Zarogiannis, Konstantinos Gourgouliannis
- 
- PA1845 The utility of RNA and transcriptome analysis in improving diagnostics and understanding disease mechanism in Primary Ciliary Dyskinesia**  
Jelmer Legebeke (Solna, Sweden), John Holloway, Jane Lucas, Diana Baralle
- 
- PA1846 Variants in CEP164 cause PCD: expanding the spectrum of primary and motile ciliopathy overlap.**  
Janice Coles (Southampton (Hampshire), United Kingdom), Claire L. Jackson, Laura A. Devlin, James Thompson, N. Simon Thomas, Woolf T. Walker, Ben Green, Miguel Barroso-Gil, Ruxandra Neatu, Colin G. Miles, Gabrielle Wheway, John A. Sayer, Jane S. Lucas
- 
- PA1847 Uncovering unique gene signatures for COPD through integrating human airway datasets**  
Rashad Mohammad Mahbub (Sydney, Australia), Corry-Anke Brandsma, Maarten Van Den Berge, Alen Faiz
- 
- PA1848 A new method to estimate human bronchial epithelial cells ciliary beat frequency**  
Stefano Palea (Labege, France), Sekou Diarra, Alain Kamgoué
- 
- PA1849 Late Breaking Abstract - Knocking-down FAM13A during lung epithelial differentiation alters the development of cilia**  
Linda Yrlid (Gothenburg, Sweden), Jenny Horndahl, Rebecka Svärd, Lynda Hogström, Russel Hamilton, Ilaria Furlan, Fredrik Karlsson, Linda Sundström, Felix Gnerlich, Stefan Vollmer
- 
- PA1850 Late Breaking Abstract - P-cresol sulfate acts on epithelial cells to reduce allergic airway inflammation**  
Rhiannon Grant (Melbourne, Australia), Matthew Macowan, Carmel Daunt, Olaf Perdijk, Benjamin Marsland

**PA1851** **Late Breaking Abstract - Thromboinflammation a common signature across age in chronic lung disease**  
Anne Hilgendorff (München, Germany), Isis Fernandez, Ivette Bastidas, Alida Kindt, Anastassia Akhalkatsi, Kai Förster, Andreas W. Flemmer, Christoph Hübener, Marion Frankenberger, Nikolaus Kneidinger, Teresa Kauke, Rudolf Hatz, Stefan Karrasch, Annette Peters, Rainer Kaiser, Juergen Behr

**PA1852** **Late Breaking Abstract - Sex-specific Differences in COPD Presentation Are Associated with Sphingolipids Metabolism**  
Elisabetta Granato (Naples, Italy), Ida Cerqua, Jeff Kue, Renata Esposito, Joselyn Rojas-Quintero, Fiorentina Roviezzo, Francesca Polverino

**PS-4 in poster area** **Session 199** **16:00 - 17:30**

**Poster session: Cutting-edge approaches to model and treat lung disease**

**Disease(s)** : [Airway diseases](#) [Interstitial lung diseases](#)

**Method(s)** : Cell and molecular biology

**Tag(s)** : Basic science, Translational

**Chairs** : Mareike Lehmann (Marburg, Germany), Thomas Wilkinson (Southampton (Hampshire), United Kingdom)

**PA1853** **Development of a huPCLS platform to explore IL-33 biology and test novel therapies**  
Josquin Nys (Cambridge (Cambridgeshire), United Kingdom), Katherine Stephenson, Aoife Kelly, Claire Hollins, Sofia Koch, Tina Baker, Yoichiro Ohne, Jingjing Li, Xavier Romero Ros, Suzanne Cohen

**PA1854** **MicroRNA transfection of 3D lung tissue model is possible**  
Joanna Nowakowska (Poznań, Poland), Wojciech Langwiński, Iran Augusto Neves Silva, Nika Gvazava, Aleksandra Szczepankiewicz, Darcy E Wagner

**PA1855** **Single-cell RNA sequencing reveals defective bronchial epithelial cell differentiation in patients with severe COPD in 3-dimensional organoid cultures**  
Kingsley Okechukwu Nwozor (Vancouver, Canada), Tillie-Louise Hackett, Chen Xi Yang, Aurore C. A. Gay, Jelmer Vlasma, Martin Banchoero, Marissa Wisman, Mubeen Khan, Djoke V. Gosliga, Tessa Kole, Dirk-Jan Slebos, Karin Klooster, Maarten V. D. Berge, Martijn C. Nawijn, Corry-Anke Brandsma, Irene H. Heijink

**PA1856** **Rat-to-human translation of an antigen-specific, CD4+ T-cell-induced model of airway myocyte hyperplastic remodeling**  
David Ramos Barbon (Barcelona, Spain), Éder Fredy Mateus-Medina, Nadia S. Brienza, Santiago Sánchez-Cabús, Vicente Plaza

**PA1857** **Tridimensional microscopy unravels distal architecture of IPF**  
Youri Bertrand (Woluwe Saint-Pierre, Belgium), Thomas Planté-Bordeneuve, Marylène Lecocq, Caroline Bouzin, Charles Pilette, Antoine Froidure

**PA1858** **Additional effects of oral prednisolone following mepolizumab on the nasal transcriptome**  
Imran Howell (Oxford, United Kingdom), Freda Yang, Jennifer Cane, John Busby, Liam G Heaney, Peter Howarth, Ian D Pavord, Chris E Brightling, Timothy Sc Hinks, Rekha Chaudhuri

**PA1859** **Development of a Xenopus-based assay for high-throughput evaluation of mucociliary flow**  
Panayiotis Kouis (Nicosia, Cyprus), Ioanna Antoniadis, Andria Koulle, Maria Chatzifrangkeskou, Timothea Konstantinou, Panayiotis K Yiallourous, Paris Skourides

**PA1860** **Development of a high throughput primary human fibroblast-to-myofibroblast transition assay**  
Elisabeth Bäck (Molndal, Sweden), Mei Ding, Johan Jirholt, Jessica Reijer, Stefan Tångeford

**PA1861** **Establishing the Conditionally Reprogrammed Cell Technology for precision medicine in PCD**  
Ruth Maria Urbantat (Berlin, Germany), Anita Balázs, Marika Drescher, Kathrin Seidel, Alexander Rohrbach, Maria Daniltschenko, Aditi Kuppe, Tihomir Rubil, Simon Gräber, Julia Dürr, Stephanie Thee, Mehrak Yoosefi, Jobst Röhmel, Marcus A. Mall

**PA1862** **Proteomic profiling of air-liquid-interface (ALI)-cultured primary ciliary dyskinesia (PCD) nasal epithelia**  
Katie L Horton (Eastleigh, United Kingdom), Janice L Coles, Claire L Jackson, Alistair Bailey, Paul J Skipp, David W Cleary, Raymond N Allan, Jane S Lucas

**PA1863** **PDE4B inhibitor BI1015550 improves lung fibrosis, modulates transcriptome in bleomycin-treated rats, and attenuates fibrotic markers in human lung fibroblasts and epithelial cells**  
Dennis Reininger (Biberach, Germany), Franziska Elena Herrmann, Peter Nickolaus, Lutz Wollin, Baerbel Laemmler, Karsten Quast, Katrin Fundel-Clemens

**PA1864** **IL-6 trans-signaling implicated in bronchial epithelial SERPIN B3/B4 mediated fibrogenesis and epithelial disruption in severe asthma**  
Chih-Chieh Tseng (Taipei City, Taiwan), Chun-Liang Chou, Han-Pin Kuo

- PA1865** **Investigating miRNA regulation of PTEN in Cystic Fibrosis using airway epithelial cells derived from patient specific iPSC**  
Irene Oglesby (Beaumont, Ireland), Arlene Glasgow, Catherine Greene, Killian Hurley
- 
- PA1866** **Early immune development in the human fetal lung**  
L. Jia (Leiden, Netherlands), Nannan Guo, M. Fernanda Pascutti, Susana M. Chuva De Sousa Lopes, Pieter S. Hiemstra, Jan Stolk, Frits Koning, Padmini P. S. J. Khedoe
- 
- PA1867** **Characterisation of airway epithelial cells from survivors of very preterm birth reveal barrier defects at one year of age.**  
Denby Evans (Nedlands, Australia), Samantha Mclean, Shannon Simpson, Anthony Kicic
- 
- PA1868** **Highly selective furin inhibition as a therapeutic approach for chronic obstructive pulmonary disease**  
Lisa Douglas (Belfast, United Kingdom), James A Reihill, Tatjana Odrlijin, S Lorraine Martin
- 
- PA1869** **Targeting deubiquitinases for the treatment of COPD**  
Amy Hendren (Belfast, United Kingdom), James Reihill, Richard Wilkinson, Ian Lobb, Lorraine Martin

## PS-5 in poster area

## Session 200

16:00 - 17:30

## Poster session: Sleep-disordered breathing in other respiratory diseases and nocturnal hypoventilation

Disease(s) : Sleep and breathing disorders Thoracic oncology Airway diseases

Method(s) : Epidemiology Surgery Public health General respiratory patient care Physiology Pulmonary function testing Imaging

Tag(s) : Clinical

Chairs : Tarja Saaresranta (Littoinen, Finland), Paschalis Steiropoulos (Alexandroupolis, Greece)

- PA1870** **Assessment of sleep quality in Chronic obstructive pulmonary disease patients with emphysema**  
Houda Rouis (Ariana, Tunisia), amal chennoufi, Moussa Chirine, Rouis Houda, Ghourabi Asma, Khattab Amel, Khouaja Ibtihel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Maalej Sonia
- 
- PA1871** **Prevalence of sleep disorders and disturbances related risk factors among patients with Chronic Obstructive Pulmonary Disease:A systematic review.**  
Stephanie Palacios (Iloilo, Philippines), Glenford Refre, Patricio Palmes, Ronnie Samoro
- 
- PA1872** **Association between preserved ratio impaired spirometry and indices of obstructive sleep apnea (OSA) severity**  
Izolda Bouloukaki (Heraklion (Crete), Greece), Michail Fanaridis, Georgios Stathakis, Konstantina Lyroni, Stilian Viziriannaki, Georgios Pitsidianakis, Nikolaos Tzanakis, Sophia Schiza
- 
- PA1873** **Smoking-induced disturbed sleep: A Distinct Sleep-Related Disorder -experience on 4347 patients**  
Athanasia Pataka (Thessaloniki, Greece), Ioanna Grigoriou, Paschalia Skalisti, Ioanna Papagiouvanni, Anastasia Michailidou, Konstantinos Charalambidis, Serafeim – Chrysovalantis Kotoulas, Konstantinos Porpodis, Dionysios Spyrtos
- 
- PA1874** **THE FORECAST OF THE COURSE OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH OBSTRUCTIVE-APNOEA SYNDROME DURING SLEEP**  
Khayrillo Rajabov (Tashkent, Uzbekistan), Irina Liverko
- 
- PA1875** **THE PHENOTYPES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH COMORBIDITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME.**  
Khayrillo Rajabov (Tashkent, Uzbekistan), Irina Liverko
- 
- PA1876** **Effect of CPAP treatment on serum 25(OH)D levels in patients with COPD-OSA overlap syndrome**  
Paschalis Steiropoulos (Alexandroupolis, Greece), Athanasios Voulgaris, Kostas Archontogeorgis, Kostas Bonelis, Michail Fanaridis, Sofia Schiza
- 
- PA1877** **Epidemiology of obstructive sleep apnea in patients with severe asthma under treatment with biologics**  
Lorenzo Cirri (Chur, Switzerland), Thomas Rothe, Tsogyal Daniela Latshang
- 
- PA1878** **Evaluation of sleep disordered breathing and related factors in primary ciliary dyskinesia patients**  
Nagehan Emiralioğlu (Ankara, Turkey), Merve Begum Ozturk, Halime Büyüksahin, Ismail Guzelkas, Dilber Ademhan, Beste Ozsezen, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik
- 
- PA1879** **Sleep disordered breathing and snoring in patients investigated for exercise induced laryngeal obstruction: A service evaluation**  
Keir E. J. Philip (London, United Kingdom), Zander Williams, Emil S Walsted, Julia Kelly, Alanna Hare, James H Hull

- PA1880** **Determinants of Nocturnal Hypoxaemia in Patients with Chronic Tromboembolic Pulmonary Hypertension and Sleep-Related Breathing Disorder**  
Caner Çınar (Istanbul, Turkey), Şehnaz Olgun Yıldızeli, Baran Balcan, Bedrettin Yıldızeli, Bülent Mutlu, Yüksel Peker
- PA1881** **Changes in the sleep-disordered breathing from the acute to the stable phase of pulmonary embolism. The ESAET study**  
Grace Jacqueline Oscullo Yopez (Valencia, Spain), Alberto García Ortega, Eva Mañas Baena, Thais Beaupertuy Levy, Jose Gomez Olivas, Aldara García Sanchez, Irene Cano Pumarega, Amina Bekki, Marina Inglés Azorín, Juan José Jiménez Aguilera, Alba Cerveró Rubio, Pilar Calvillo Batllés, Sergio Mompean Rodríguez, Rosalía Martínez Perez, David Jiménez Castro, Miguel Ángel Martínez García
- PA1882** **Impact of intermittent and sustained nocturnal hypoxemic burden on the postoperative course in patients after anatomical lung resection**  
Svenja Schröder (Regensburg, Germany), Clemens Wiest, Christian Schulz, Hans-Stefan Hofmann, Michael Ried, Michael Arzt
- PA1883** **Are the anthropometric and arterial blood gas parameters predictors of obesity-hypoventilation syndrome in an apneic population**  
Mohamed Bougrida (Constantine, Algeria), Fouzia Abdelouhab, Bouchra Benzouid, Mahdi Martani, Mohamed Kheireddine Bourahli
- PA1884** **Bicarbonate as predictor of sleep-related hypoventilation**  
Joël Julien Herzig (Zürich, Switzerland), Sanja Pocrnic, Esther Irene Schwarz
- PA1885** **Prevalence and predictors of obesity hypoventilation syndrome in patients with obstructive sleep apnea in a tertiary care institution in South India**  
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Barney Isaac, Chithra Alexander, Roselin John, Anitha Barney, Balamugesh Thangakunam
- PA1886** **Starting home mechanical ventilation associates with reduced rate of hospitalization in people with obesity hypoventilation syndrome: The population-based DISCOVERY study**  
Jonas Einarsson (Lund, Sweden), Andreas Palm, Zainab Ahmadi, Magnus Ekström
- PA1887** **Comparison of physical activity and quality of life between obese individuals with OSAS or OHS**  
Afroditi Boutou (Thessaloniki, Greece), Antonios Baxtsevanidis, Anastasia Chasiotou, Diamantis Chloros, Dimitra Mamaletzi, Evangelia Kouidi
- PA1888** **Hypoventilation in patients with Prader-Willi syndrome across the pediatric age**  
Catherine Chen (Bron, France), Iulia Ioan, Marine Thieux, Marc Nicolino, Patricia Franco, Laurianne Coutier
- PA1889** **Definition of diaphragmatic sleep disordered breathing in Duchenne Muscular Dystrophy**  
Federica Trucco (Genova (GE), Italy), Matthew Davies, Alberto Zambon, Deborah Ridout, Francois Abel, Francesco Muntoni

## PS-6 in poster area

## Session 201

16:00 - 17:30

## Poster session: Real-life studies in asthma: all the way to clinical remission

Disease(s) : [Airway diseases](#) [Pulmonary vascular diseases](#)

Method(s) : General respiratory patient care Pulmonary function testing Physiology Public health Epidemiology

Tag(s) : Clinical

Chairs : Celeste Michala Porsbjerg (Copenhagen, Denmark), Andrea Portacci (Taranto, Italy)

- PA1890** **Treatment Patterns of Patients Who Initiate Biologics for Severe Asthma Across USA, Japan, & Europe**  
Joshua Harvey (Upper Providence, United States), Samantha N Valliant, Shiyuan Zhang, George Mu, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Takeo Ishii, Takeo Suzuki, Hideaki Kunishige, Rafael Alfonso-Cristancho

- PA1891** **Clinical remission following biologic initiation in severe asthma: results of the International Severe Asthma Registry (ISAR)**  
Trung Tran (Gaithersburg, United States), Ghislaine Scelo, Tham T. Le, Malin Faregås, Neil Martin, Andrew N. Menzies-Gow, Wang Eileen, Michael Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Luis Perez-De-Llano, Borja G Cosio, Piotr Kuna, Diahn-Warng Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Riyadh Al-Lehebi, João A. Fonseca, Chin Kook Rhee, Jorge Máspero, Mariko Koh Siyue, George C Christoff, Todor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price



PA1892	<p><b>Characteristics associated with clinical remission in patients with severe asthma who initiate biologics</b> Luis Pérez De Llano (Lugo, Spain), Ghislaine Scelo, Trung N Tran, Tham T. Le, Neil Martin, Malin Fagerås, Andrew N. Menzies-Gow, Eileen Wang, Michael E. Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E. Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Borja G. Cosio, Piotr Kuna, Diahn-Warng Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Nikolaos G. Papadopoulos, Riyad Al-Lehebi, João A. Fonseca, Chin Kook Rhee, Jorge Máspero, Mariko Siyue Koh, George C. Christoff, Todor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price</p>
PA1893	<p><b>Asthma medication use in New Zealand following publication of national asthma guidelines</b> Lee Hatter (Wellington, New Zealand), Allie Eathorne, Pepa Bruce, Tom Hills, Claire Houghton, Mark Weatherall, Richard Beasley</p>
PA1894	<p><b>Real world biologic treatment response in severe asthma: an analysis of the International Severe Asthma Registry (ISAR)</b> Trung Tran (Gaithersburg, United States), Tham T. Le, Ghislaine Scelo, Malin Fagerås, Neil Martin, Andrew N. Menzies-Gow, Wang Eileen, Michael Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E. Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Luis Perez-De-Llano, Borja G. Cosio, Piotr Kuna, Diahn-Warng Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Nikolaos G. Papadopoulos, Riyad Al-Lehebi, João A. Fonseca, Chin Kook Rhee, Jorge Máspero, Mariko Koh Siyue, George C. Christoff, Todor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price</p>
PA1895	<p><b>Patients' knowledge, perspectives and attitudes towards treatment goals and clinical remission in severe asthma</b> Shiyuan Zhang (Collegeville, United States), Alejandro Raimondi, Olivia Fulton, Vanessa M McDonald, Ratko Djukanovic, Matthew Masoli, Peter Howarth, Waseem Ahmed, Tom Keeley, Josh Barazetti-Scott, Rafael Alfonso</p>
PA1896	<p><b>Long-term weight changes after starting anti-interleukin-5/5Ra biologics in severe asthma</b> Lianne ten Have (Leeuwarden, Netherlands), Edith Visser, Jacob K. Sont, Kim De Jong, Johannes A. Kroes, Anneke Ten Brinke</p>
PA1897	<p><b>Real-world associations between outcomes and biomarkers in severe asthma patients treated with biologics</b> David Price (Singapore, Singapore), John Townend, Trung N Tran, Neil Martin, Andrew N. Menzies-Gow, Eileen Wang, Michael E. Wechsler, Giorgio Walter Canonica, Enrico Heffler, Luis Perez-De-Llano, Borja G. Cosio, Mark Hew, Matthew Peters, Peter G. Gibson, Sinthia Bosnic-Anticevich, Liam G. Heaney, David J. Jackson, Paul E. Pfeffer, John Busby, Sundeep Salvi, George C. Christoff, Todor A. Popov, Celeste M. Porsbjerg, Carlos A. Torres-Duque, Riyad Al-Lehebi, Mona Al-Ahmad, Diahn-Warng Perng, Celine Bergeron, Mohsen Sadatsafavi, Bassam Mahboub, Takashi Iwanaga, Jorge Maspero, Piotr Kuna, Kook Rhee Chin, Désirée Larenas-Linnemann, Nikolaos G. Papadopoulos, Andriana I. Papaioannou, João A. Fonseca, Mariko Siyue Koh, Richard W. Costello</p>
PA1898	<p><b>Efficacy of benralizumab and mepolizumab in treating severe eosinophilic asthma: A one-year study on clinical remission and response</b> Anna Núñez (Barcelona, Spain), Maria Basagaña, Toni Zapata, Alan Junior Solis, Borja Domingo, Ignasi Garcia Olivé, Clara Padró, Albert Roger, Jorge Abad, Antoni Rosell, Carlos Martínez Rivera</p>
PA1900	<p><b>Real-world experience of mepolizumab in severe eosinophilic asthma – five-year outcomes</b> Amy Nuttall (Liverpool, United Kingdom), Fred Fyles, Hannah Joplin, Hassan Burhan, Laura Watkins</p>
PA1901	<p><b>Real-world patient-level cost-effectiveness analysis of omalizumab in patients with severe allergic asthma</b> İpek Kılıvcım Oğuzülgen (Ankara, Turkey), Deniz Tugay, Mehmet Top, Ömür Aydın, Sevim Bavbek, Ebru Damadoğlu, Ferda Öner Erkeköl, İlkay Koca Kalkan, A. Fuat Kalyoncu, Gül Karakaya, Haluk Türktaş, Ivo Abraham</p>
PA1902	<p><b>Real-life data of ten years with omalizumab treatment</b> Gökçen Ömeroğlu Şimşek (Izmir, Turkey), Damla Gündüz Karayazı, Can Sevinç</p>
PA1903	<p><b>Early response to benralizumab in severe, eosinophilic asthma: a real-world study in Switzerland</b> Claudio Schuoler (Zug, Switzerland), Peter Van Iperen, Daiana Stolz, Florian Charbonnier, Pierre-Olivier Bridevaux, Peter Jandus, René Fiechter, Jörg D. Leuppi, Thomas Hauser, Nikolay Pavlov, Thomas Scherer, Michael Huber, Andrea Azzola, Andreas Piecyk, Thomas Rothe</p>
PA1904	<p><b>Attitudes and experiences of patients and healthcare practitioners towards asthma medication prescription and adherence in the UK</b> Xiubin Zhang (London, United Kingdom), Erin Tomaszewski, Mina Khezrian, Tim Harrison, Jennifer K Quint</p>
PA1905	<p><b>Multicentric real life experience of mepolizumab in bronchiectasis concomitant to severe asthma.</b> Juan Luis García Rivero (Argoños (Cantabria), Spain), David Bañas Conejero</p>
PA1906	<p><b>Clinical remission (CR) in a real-world study to evaluate mepolizumab effectiveness in treating severe eosinophilic asthma (SEA) in Taiwan (REMIT)</b> Aldo Navarro (Singapore, Singapore), Xiaomeng Xu, Shiyuan Zhang, Diahn-Warng Perng, Shih-Lung Cheng, Rafael Alfonso, Dominique Milea</p>

- PA1907 Multi-country self-controlled study of exacerbation rates in severe asthma patients treated with mepolizumab: NEST interim analysis**  
Sevim Bavbek (Ankara, Turkey), Patricia Fernandez, Bassam Mahboub, Riyad Omar Al-Lehebi, Venkata Nagarjuna Maturu, Diana Jimena Cano Rosales, Claudia Soares, Debora Dos Santos, Gabriela Abreu, Patricia Menezes, Ronan Valladares, Juliana Queiroz, Alejandro Raimondi, Fayaz Aziz, Maria Laucho-Contreras, Emilio Pizzichini, Saeed Noibi
- PA1908 Benralizumab effectiveness in severe eosinophilic asthma and co-presence of bronchiectasis: a “real-world” retrospective study.**  
Raffaele Campisi (Catania, Italy), Santi Nolasco, Pietro Impellizzeri, Maria D'Amato, Corrado Pelaia, Andrea Portacci, Luisa Ricciardi, Giulia Scioscia, Nunzio Crimi, Girolamo Pelaia, Giovanna Elisiana Carpagnano, Claudia Crimi
- PA1909 Real-life oral corticosteroid sparing effects of biologic treatment on eosinophilic asthma, five years of follow-up**  
Sorana Peshbahar (Risskov, Denmark), Anne Sofie Bjerrum

## PS-7 in poster area

## Session 202

16:00 - 17:30

## Poster session: Chronic cough

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology Epidemiology General respiratory patient care Public health Physiology Pulmonary function testing

Tag(s) : Clinical

Chairs : Alyn Hugh Morice (Cottingham, United Kingdom), Federico Lavorini (Firenze (FI), Italy)

- PA1910 Oscillometry parameters in chronic cough**  
Hazim Abozid (Wien, Austria), Chiara Veneroni, Sylvia Hartl, Robab Breyer- Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Pasquale Pio Pompilio, Emiel Fm Wouters
- PA1911 Prevalence And Characterization of Cough-Related Urinary Incontinence in A Refractory Chronic Cough Population Enrolled in A Phase 2b Trial of The P2X3 Antagonist, Camlipixant**  
Lorcan McGarvey (Belfast, United Kingdom), Surinder S. Birring, Peter Dicipinigitis, Jaelyn Smith, Vivek N. Iyer, Sylvain Lanouette, Ronghua Yang, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli
- PA1912 Chronic cough characteristics in CANVAS**  
Barnaby Hiron (London, United Kingdom), Riccardo Curro, Hisham Abubakar-Waziri, Katie Rhatigan, Bianca Rugginini, Joseph Shaw, Harini Kesavan, Robert D M Hadden, Caroline Jolley, Jim H Hull, Peter S P Cho, Andrea Cortese, Surinder S Birring
- PA1913 Relationship between measures of type II inflammation and patient reported cough severity and quality of life outcomes in patients with chronic cough**  
Nermin Diab (Toronto, Canada), Danica Brister, Mustafaa Wahab, Yoshihisa Tokunaga, Christiane Whetstone, Elena Kum, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Kieran Killian, Jaelyn Smith, Roma Sehmi, Gail Gauvreau, Paul M O'Byrne, Imran Satia
- PA1914 Airway inflammation, bronchial hyperresponsiveness, and anti-asthma therapy responses in cough variant asthma and classic asthma with FEV1% $\geq$ 80% predicted**  
Xue Zhang (Shanghai, China), Chengjian Lv, Huijuan Hao, Jingwang Lin, Xue Tian, Min Zhang
- PA1915 Refractory and unexplained chronic cough: burden and cost of care**  
Jacky Smith (Manchester (Greater Manchester), United Kingdom), Norman Stein, Sylwia Migas, Sue Bokowski, Claire Williams, Patricia Baker, John New, Jonathan Schelfhout, Eileen Fonseca, Haya Langerman
- PA1916 Association between central obesity and chronic cough in the general adult population.**  
Johnmary T. Arinze (Rotterdam, Netherlands), Katia M.C. Verhamme, Fernando Rivadeneira, Guy Brusselle
- PA1917 Blood eosinophils in a cohort of Chronic Cough Patients consecutively admitted to a dedicated outpatient clinic: a retrospective case note analysis**  
Carlo Barbetta (Ferrara (FE), Italy), Anna Del Colle, Marco Caminati, Rachele Vaia, Gianenrico Senna, Donato Lacedonia, Umberto Zuccon, Rossana Roncato
- PA1918 A novel questionnaire describing sensations and triggers associated with refractory and unexplained chronic cough**  
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Chelsea Sawyer, Shannon Galgani, Jenny King, Holt Kimberley, Rachel Dockry, Joanne Mitchell, Jacky Smith, Paul Marsden, Janelle Yorke
- PA1919 Patient global impression of severity in chronic cough; repeatability and responsiveness**  
Katie Rhatigan (Denmark Hill, United Kingdom), Barnaby Hiron, Harini Kesavan, Miten Sudra, Candice Ebelthite, Richard Turner, Caroline Jolley, James Hull, Surinder Birring, Peter Cho

- PA1920** **Correlation of visual analogue scale with Leicester Cough questionnaire in patients with refractory/unexplained chronic cough**  
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ignacio Dávila, Santiago Quirce, Astrid Crespo-Lessmann, Miguel Diaz-Palacios, Antonio Pereira-Vega, Maria Luisa Nieto, Juan Luis Rodriguez-Hermosa, Luis Cea-Calvo, Pilar López-Cotarelo, Marta Sanchez Jareño, Luis Puente-Maestu
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- PA1921** **The long-term prognosis of chronic cough**  
Jinkyong Park (Seoul, Republic of Korea), Yee Hyung Kim, Myung Jae Park, Cheon Woong Choi
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- PA1922** **Burden of chronic dry and productive cough on social participation, healthcare resource utilisation and activities of daily living from the Canadian Longitudinal Study on Aging (CLSA)**  
Imran Satia (Hamilton, Canada), Alexandra Mayhew, Nazmul Sohel, Om Kurmi, Kieran Killian, Paul O'Byrne, Parminder Raina
- 
- PA1923** **Chronic cough in sarcoidosis**  
Barnaby Hiron (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Richard Turner, Caroline Jolley, Katherine Myall, Surinder S Birring, Pete S P Cho
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- PA1924** **Stress urinary incontinence in women with chronic cough: impact on cough-related quality of life**  
Luis Puente Maestu (Madrid, Spain), Santiago Quirce, Ignacio Dávila, Ebymar Arismendi, Eva Martínez-Moragón, Javier Sola-Martínez, Alfredo De Diego, Francisco Javier González-Barcala, Luis Cea-Calvo, Cristina Rivas-Pardinas, Marta Sanchez Jareño, Christian Domingo-Ribas
- 
- PA1925** **Relationship between subjective cough outcomes and activity impairment in patients with chronic cough**  
Mustafaa Wahab (Hamilton, Canada), Chaoqun (Cherry) Xu, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia
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- PA1926** **Serum Ige levels and blood eosinophils as potential Th2 inflammation biomarkers and target to address Chronic Cough: a retrospective analysis**  
Carlo Barbetta (Ferrara (FE), Italy), Anna Del Colle, Umberto Zuccon, Alessio De Massimi, Vittorio Giacomarra, Maria Elisabetta Conte, Alberto Fantin, Marco Contoli, Alberto Papi, Antonella Serafini, Gelindo Cappellato, Marco Caminati, Gianenrico Senna, Rachele Vaia, Francesco Saverio Serino, Rossana Roncato
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- PA1927** **Work productivity and activity impairment among chronic cough patients after a guideline-based treatment in the McMaster Cough Clinic**  
Mustafaa Wahab (Hamilton, Canada), Chaoqun (Cherry) Xu, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia
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- PA1928** **Late Breaking Abstract - Frequent Productive Cough associates with an increased risk of cardiopulmonary outcomes in a real-life cohort of patients with COPD (NOVELTY study)**  
Hana Müllerová (Cambridge, United Kingdom), Eleni Rapsomaniki, Rod Hughes, Jonathan Marshall, Alberto Papi, Helen Reddel, Mehul Patel
- 
- PA1929** **Late Breaking Abstract - Automated cough analysis: The value of own data vs open sound databases**  
Össur Ingi Emilsson (Uppsala, Sweden), Carl Andersson, Henrik Johansson, Thomas Schön

## PS-8 in poster area

## Session 203

16:00 - 17:30

## Poster session: Advances in diagnosis and biomarker identification in airways disease

Disease(s) : **Airway diseases**

Method(s) : Epidemiology Public health Cell and molecular biology Transplantation General respiratory patient care Physiology

Tag(s) : Translational

Chairs : Rachel Nadif (Villejuif, France), Augusta Beech (Manchester, United Kingdom)

- PA1930** **Blood eosinophil count and its determinants in a Chinese population-based cohort**  
Mei Yang (Chengdu, China), Shijie Tang, Yongchun Shen, Lei Chen, Fuqiang Wen
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- PA1931** **Surface receptor expression on circulating and airway eosinophils after inhaled allergen challenge**  
Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminski, Imran Satia, Nermin Diab, Danica Brister, Jennifer Wattie, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau
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- PA1932** **Eosinophil phenotypes in circulation and airways of asthmatics after inhaled allergen challenge.**  
Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminski, Imran Satia, Nermin Diab, Dancia Brister, Jennifer Wattie, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau

- PA1933 Association of complement pathway activation with severe eosinophilic asthma in the C-BIOPRED asthma cohort**  
QingLing Zhang (Guangzhou, China), Cong Dong, Zhen An Deng, Chang Xing Ou, Xin Hua Fu, Chang Zheng Wang, Hua Hao Shen, Mei Ling Jin, Nkouibert Pryseley Assam, Wei Jiang, Ali Versi, Kian Fan Chung, Qing Ling Zhang, Nan Shan Zhong
- PA1934 Sputum type 2 markers could predict remission in severe asthma after anti interleukin-5.**  
Catherine Moermans (Liège, Belgium), Chloé Brion, Grégory Bock, Sophie Graff, Sara Gerday, Halehsadat Nekoe, Christophe Poulet, Noémie Bricmont, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Florence Schleich
- PA1935 Expression of serum periostin and impaired quality of life in asthma patients with and without allergic rhinosinuitis**  
Somruetai Matupumanon (Bangkok, Thailand), Theerasak Kawamatawong, Putthapoom Lumjiaktase
- PA1936 Late Breaking Abstract - Urinary nickel level is associated with blood immunoglobulin E among asthma patients.**  
Chung Shu Lee (Taipei, Taiwan), Chih Hao Chang, Li Chung Chiu
- PA1937 Clinical asthma phenotypes linked to sputum proteome from Chinese C-BIOPRED cohort**  
QingLing Zhang (Guangzhou, China), Chanxing Ou, Zhenan Deng, Lingna Xue, Jian Kang, Yunhui Zhang, Mao Huang, Jinfu Xu, Kewu Huang, Qiang Li, Kian Fan Chung, Nanshan Zhong, Jiaying Xie
- PA1938 Plasma IL-36 subfamily levels impact on clinical manifestations of asthma**  
Yuki Hoshino (Saitama, Japan), Tomoyuki Soma, Tatsuhiko Uno, Reina Ishii, Kazuki Katayama, Hidetoshi Iemura, Erika Naitou, Takahiro Uchida, Shun Sinomiya, Sachiko Miyauchi, Yoshitaka Uchida, Kazuyuki Nakagome, Hidetoshi Nakamura, Makoto Nagata
- PA1939 Possible multiple signalling of MMP-10 in atopic asthma**  
Nikolaos Tsolakis (Uppsala, Sweden), Andrei Malinowski, Jörgen Syk, Kjell Alving
- PA1940 12-LOXs-12(s)-HETE-GPR31 signaling axis mediates immune homeostasis in allergic asthma**  
Peiyan Zheng (Guangzhou (Guangdong), China), Baoqing Sun
- PA1941 Investigating allergen-induced acute lung inflammation in asthmatic individuals using breath biopsies**  
Agnieszka Smolinska (Maastricht, Netherlands), Imran Satia, Christiane E Whetstone, Maral Ranjbar, Mustafaa Wahab, Karen J Howie, Caitlyn Stevens, Lesley Wiltshire, Jennifer Wattie, Chad Schaber, Federico Ricciardi, Tilly Woodland, Ahmed Tawfike, Samuel Thompson, Atashia Gonsalves, Natalie Tett, Ben Taylor, Rune Kraggsberger, Rory Stallard, Howard Kartstein, Daniel Mead, Lara Pocock, Billy Boyle, Max Allsworth, Gail Gauvreau
- PA1942 Effects of Sex Hormones on Asthma Control in Postmenopause**  
Samia Aissani (Algiers, Algeria), Houria Haouichat, Ali Zitouni
- PA1943 Sensitization to Staphylococcus aureus toxins in Severe Asthma. The Belgian IgE (BEIgE) study.**  
Florence Schleich (Liège, Belgium), Eleonore Maury, Claus Bachert, Mieke Jansen, Sandra Gurdain, Jan Van Schoor
- PA1944 Developing and validating clinical models to identify candidates for allergic rhinitis pre-exposure prophylaxis**  
Wenting Luo (Guangzhou (Guangdong), China)
- PA1945 Associations between sputum cell counts and healthcare use across Ontario patients with asthma or COPD**  
Kimball Zhang (Toronto, Canada), Teresa To, Sylvia Lauks, Melanie Kjarsgaard, Jingqin Zhu, Emilie Terebessy, Parameswaran Nair
- PA1946 Type 2 inflammation signature using sputum transcriptomics is associated with COPD clinical characteristics**  
Yuqiong Yang (Guangzhou, China), Junhao Yang, Fengyan Wang, Weijuan Shi, Martin Stampfli, Jeffrey Curtis, Bradley Drummond, Nanshan Zhong, Zhang Wang, Zhenyu Liang, Rongchang Chen
- PA1947 Proteasome function as a biomarker for severe COPD endotypes**  
Claudia Flexeder (Neuherberg, Germany), Ilona Kammerl, Stefan Karrasch, Frauke Pedersen, Claus Vogelmeier, Jürgen Behr, Sandra Söhler, Henrik Watz, Annette Peters, Holger Schulz, Silke Meiners
- PA1948 ADAM17 sheddase substrates in airway and blood samples of COPD, asthma, and healthy subjects**  
Carin Larsson (Rydsgård, Sweden), Nicole Van Der Burg, Jaro Ankerst, Leif Bjermer, Ellen Tufvesson
- PA1949 A practical approach to handling missing sputum samples in airways disease research**  
Laurits Frøssing (Copenhagen V, Denmark), Susanne Hansen, Morten Hvidtfeldt, Asger Sverrild, Celeste Porsbjerg

PS-9 in poster area

Session 204

16:00 - 17:30

Poster session: Pulmonary function, lung function trajectories and other respiratory conditions

**Disease(s) :** Airway diseases Thoracic oncology

**Method(s) :** Epidemiology Public health Pulmonary function testing General respiratory patient care Cell and molecular biology Imaging

**Tag(s) :** Translational

**Chairs :** Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Gennaro D'Amato (Napoli (NA), Italy)

- PA1950** **Epigenetic features in newborns associated with preadolescence lung function and asthma acquisition during adolescence**  
Mohammad Nahian Ferdous Abrar (Memphis, United States), Hongmei Zhang, Wilfried Joachim Jurgen Karmaus, John Holloway, Hasan Arshad, Yu Jiang
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- PA1951** **Lung function trajectories and their associations with comorbidity markers.**  
Sigrid Anna Aalberg Vikjord (TRONDHEIM, Norway), James P Allinson, Arnulf Langhammer, Lowie Etienne Vanfleteren
- 
- PA1953** **Type-2 inflammation is associated with accelerated lung function decline in individuals with chronic airway disease from the general population**  
Yunus Çolak (Espergærde, Denmark), Shoaib Afzal, Jacob L. Marott, Børge G. Nordestgaard, Peter Lange
- 
- PA1954** **Advanced glycation end products (AGEs) in relation to COPD and lung function: the Rotterdam Study**  
Tianqi Lu (Rotterdam, Netherlands), Lies Lahousse, Sara Wijnant, Jinluan Chen, Guy Brusselle, Mandy Van Hoek, M. Carola Zillikens
- 
- PA1955** **Clinical relevance of lung function trajectory clusters in middle-aged and older adults**  
Xander Bertels (Gent, Belgium), James Ross, Rosa Faner, Michael Cho, Guy Brusselle, Lies Lahousse
- 
- PA1956** **Impact of low lung function in atherosclerotic cardiovascular disease**  
Shoaib Afzal (Herlev, Denmark), Børge G. Nordestgaard, Yunus Colak
- 
- PA1957** **Diet quality, ventilatory function and respiratory impairment in Colombian adults – preliminary findings from the Cartagena Cohort Study**  
Maria Stephany Ruiz-Diaz (Cartagena de Indias, Colombia), Gustavo Mora-Garcia, Ana Luiza De Lima Curi Hallal, Ziyi Xu, Diana Mena-Yi, Francisca De Castro-Mendes, Elmer Fernandez, Carla Tarazona-Meza, Fernando Manzur-Jattin, Amileth Suarez-Causado, Edgar Vergara-Dagobeth, Nerlis Pajaro-Castro, German Otero-Marrugo, Federico Prada, Rodrigo Villegas, Vanessa Garcia-Larsen
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- PA1958** **Mortality by cause of death, spirometric pattern and sex - the OLIN COPD study**  
Ann Lindberg (Boden, Sweden), Helena Backman, Sami Sawalha, Ulf Nilsson, Linnea Hedman, Caroline Stridsman, Nikolai Stenfors, Eva Rönmark
- 
- PA1959** **The effects of body mass index on lung vital capacity in healthy Chinese adults**  
Siyu Dai (Hangzhou, China), Feng Chen, Fanjing Meng, Le Wang, Lingxiao Ye, Jianping Wang, Dingbo Shu, Meiqi Li, Yajiao Chen, Xiaochen Liu, Wanzhen Yao, Xiangyue Xiao, Yanjing Zhang, Yong Chen, Jie Liu, Yufei Hua, Jianping Ding
- 
- PA1960** **A reference range of FEV1 change rate calculated from a longitudinal analysis of a 15 years' spirometry dataset of a health check-up clinic of Japan**  
Tetsuo Kimura (Saku, Japan), Satoru Yanagisawa, Satoshi Wasamoto, Nariaki Ohura, Nobutoshi Morozumi
- 
- PA1961** **Small airways and decline in pulmonary diffusing capacity for carbon monoxide in an 8-year follow-up population-based study**  
Francesco Pistelli (Pisa (PI), Italy), Sara Maio, Anna Angino, Giuseppe Sarno, Iliaria Stanisci, Sandra Baldacci, Patrizia Silvi, Laura Carrozzi, Giovanni Viegi
- 
- PA1962** **Spirometry and cause-specific mortality. A community 26 years follow-up of young men.**  
Lucia Cestelli (Bergen, Norway), Amund Gulsvik, Ane Johannessen, Knut Stavem, Rune Nielsen
- 
- PA1963** **The war in Ukraine and the spread of tuberculosis in Europe**  
Lilia Todoriko (Chernivtsi, Ukraine), Ihor Semianiv, Liliia Todoriko, Olena Pidverbetska, Inga Yeremenchuk, Yana Toderika
- 
- PA1964** **Current etiologies of hemoptysis in a tuberculosis-endemic country.**  
Asma Zargouni (Ariana, Tunisia), Mjid Meriem, Khadija Euch, Mouna Aouini, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Abir Hedhli, Besma Dhahri
- 
- PA1965** **Identification of rhinitis phenotypes using an unsupervised approach in the Constances cohort**  
Marine Savouré (Paris, France), Jean Bousquet, Laurent Orsi, Marcel Goldberg, Bénédicte Leynaert, Mohamed Nadif, Céline Ribet, Marie Zins, Bénédicte Jacquemin, Rachel Nadif
- 
- PA1966** **bronchogenic carcinoma in women**  
Chaimae Belhaj (Casablanca, Morocco), Hajar Arfaoui, Hasnae Jabri, Wiam El Khattabi, Hicham Afif

**PA1967** **Diagnostic difficulties in tuberculous pleural effusion in adults**  
Tatiana Osipov (Chisinau, Republic of Moldova), Iulia Ghelis, Adriana Niguleanu

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**PA1968** **Prevalence of respiratory symptoms and lung diseases in lung cancer screening program**  
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Tomi Kovacevic, Ana Milenković, Bojan Zaric, Goran Stojanovic, Darijo Bokan

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**17:30-19:00**

**INDUSTRY EVENING SYMPOSIUM**

**SEE PAGE 1**

**17:30-19:00**

**INDUSTRY EVENING MINI SYMPOSIUM**

**SEE PAGE 1**

08:00-08:45

## INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

Amber 1+2

Session 217

08:00 - 10:20

## Skills workshop: SW4 Interpretation of cardiopulmonary exercise tests

## Tips and pitfalls in cardiopulmonary exercise testing assessment

**Aims :** to identify typical patterns of responses to cardiopulmonary exercise testing and demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Pierantonio Laveneziana (Paris, France)

08:00	<b>Introduction</b> All Speakers	2033
08:00	<b>Relationship between oxygen uptake and work rate</b> Paolo Palange (Rome, Italy)	2034
08:00	<b>Anaerobic/lactate threshold</b> William Stringer (Long Beach, United States)	2035
08:00	<b>Ventilatory efficiency</b> J. Alberto Neder (Kingston (ON), Canada)	2036
08:00	<b>Breathing pattern and dynamic hyperinflation</b> Michele Schaeffer (Leuven, Belgium)	2037

Amber 3+4

Session 218

08:00 - 10:20

## Skills workshop: SW7 Practicalities of spirometry and whole-body plethysmography

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

08:00	<b>Introduction</b> All Speakers	2038
08:00	<b>Performing spirometry</b> Aisling McGowan (Dublin 15, Ireland)	2039
08:00	<b>Standardised static lung volume measurement using whole-body plethysmography</b> Frans H.C. De Jongh (Enschede, Netherlands)	2040
08:00	<b>Measurement of airway resistance and resistance-volume loops using whole-body pethysmography</b> Mart N. van der Plas (Monster, Netherlands)	2041
08:00	<b>Reporting and interpretation of case studies</b> Maximillian Thomas (Birmingham, United Kingdom)	2042

PS-1 in poster area

Session 219

08:00 - 09:30

## Poster session: Clinical problems in tuberculosis and other respiratory infections

Disease(s) : Respiratory critical care Interstitial lung diseases Airway diseases

Method(s) : Public health Cell and molecular biology Imaging Palliative care Physiology Pulmonary rehabilitation Respiratory intensive care General respiratory patient care Epidemiology

Tag(s) : Clinical

Chairs : Christian Niels Meyer (Roskilde, Denmark), Priti Meshram (Mumbai (Maharashtra), India)

PA2043	<b>Predictors of pulmonary tuberculosis relapse</b> Selsabil Daboussi (Tunis, Tunisia), Améni Naaroura, Samira Mhamdi, Safa Marzouki, Houda Snoussi, Chiraz Aichaouia, Zied Moctemri
PA2044	<b>Pseudotumor tuberculosis: a rare form</b> Sofia El hanafy (casablanca, Morocco)
PA2045	<b>Errors in the diagnosis of tuberculosis in children under the conditions of the COVID-19 pandemic.</b> Igor Ivanec (Chisinau, Republic of Moldova), Cristina Liscinscaia, Stela Kulcițkaia, Constantin Iavorschi, Iulia Ghimisli
PA2046	<b>Mortality of tuberculosis patients due to associated diseases and other causes</b> Igor Ivanec (Chisinau, Republic of Moldova), Aurelia Ustian, Vasile Popa, Anastasia Ivanec
PA2047	<b>Mortality in tuberculosis</b> Fettal Nadia (Sidi Bel Abbes, Algeria), akram Benhaddad
PA2048	<b>Correlation between imaging in non-cystic fibrosis bronchiectasis and prognosis scores</b> Houda Rouis (Ariana, Tunisia), Donia Jeridi, Chirine Moussa, Chaima Turki, Oumaima Aggouni, Hana Dhifallah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
PA2049	<b>COPD as a post-tuberculosis lung disease: multicenter retrospective cohort study</b> YEJIN LEE (SEOUL, Republic of Korea), Dong-Hyun Joo, Sooim Sin, Hyerin Kang, Jin Hwa Song
PA2051	<b>Impact of tuberculosis on the evolution of pregnancy, delivery and perinatal outcomes</b> Igor Ivanec (Chisinau, Republic of Moldova), Ecaterina Evstrati, Stela Kulcițkaia, Anastasia Ivanec
PA2052	<b>Post-COVID-19 pulmonary complications in the chest clinic of Oran, Algeria</b> Abdelmajid Snouber (Oran, Algeria), Siham Benzait, Nesrine Azzi, Nesrine Bouchra Bourouis, Mustapha Benammar, Karima Boualem
PA2053	<b>Radiological pulmonary manifestations in patients with achalasia</b> Jelena Jankovic (Beograd, Republic of Serbia), Branislava Milenkovic, Zlatan Bojic, Nikola Colic
PA2054	<b>Retrospective observational study looking at inpatient burden of winter respiratory viral illness in a district general respiratory unit</b> Usman Zafar Kahara (Birmingham, United Kingdom), Gagandeep Aulakh, Abhimanyu Lal, See Ling Tan
PA2055	<b>In-hospital mortality by different CURB type severity scores of community-acquired pneumonia</b> Hyonsoo Joo (Seoul, Republic of Korea), Mira Cho, Seohyun Kim, Yunhee Lee, Jun-Pyo Myong, Jae Jeong Shim, Tai Joon An, Hyoung Kyu Yoon
PA2056	<b>Prevalence of newly acquired conditions and impact on quality of life one year after hospital discharge for COVID-19</b> Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Wolloff, Archie Walters, Louise Wain, Chris Brightling, Michael Marks, Andrew Briggs
PA2057	<b>Phenotypes in 'Long COVID' presenting as 'tsunami of multisystem syndrome' of this decade: Is it really preventable or occurs as natural course of disease?</b> Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Gajanan Gondhali, Rajesh Patil, Utreshvar Dhumal, Abhijit Acharya, Shubhangi Khule, Deepak Patil
PA2058	<b>Efferent therapy in complex treatment of patients with coronavirus associated pneumonia</b> Oksana Viltaniuk (Vinnytsya, Ukraine), Yuriy Mostovoy
PA2059	<b>90-Day outcomes in patients with severe COVID-19 treated with invasive mechanical ventilation.</b> Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Satoshi Tanaka, Yusuke Shinozaki, Junko Shibuya, Hajime Tsuruoka, Shin Matsuzawa, Hiromi Muraoka, Atsuko Ishida, Hirota Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine
PA2060	<b>COVID-19 as endothelial dysfunction trigger</b> Nataliia Habshydzhe (Dnipro, Ukraine), Tetiana Pertseva, Lyudmyla Konopkina, Yuliia Hyba, Mariia Krykhtina



**PA2061** **Theranostic algorithm to prevent post-COVID-19 pulmonary fibrosis**  
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Cécile Duterme, Alain Roman, Hafid Dahma, Stephane Alard, Stephanie Andre, Dragos Barglazan, Audrey Chirumberro, Frederic Cotton

PS-10 in poster area

Session 220

08:00 - 09:30

Poster session: Burden, determinants, and management of asthma

Disease(s) : **Airway diseases**

Method(s) : Epidemiology Cell and molecular biology Public health

Tag(s) : Clinical

Chairs : Jonathan Grigg (London, United Kingdom), Malin Axelsson (Malmö, Sweden)

**PA2062** **Characteristics of patients with asthma in China by blood eosinophil level**  
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), Ark Ye, Zhiliu Tang, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards

**PA2063** **World-wide variation in the proportion of patients eligible for asthma biologics: a systematic review**  
Freda Yang (London, United Kingdom), Justin D Salciccioli, Marcus Mcclean, Chloe Bloom

**PA2064** **Uncontrolled asthma associates age-dependently with biomarkers and comorbidities in adult-onset asthma**  
Katja Warm (Kalmar, Sweden), Linnea Hedman, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Helena Backman

**PA2065** **Risk for asthma and allergic rhinitis depends on earliness and multiplicity of allergic sensitization, involved allergens, and allergen-specific IgE levels**  
Stephan Gabet (Lille, France), Fanny Rancière, Nathalie Seta, Isabelle Momas

**PA2066** **Association between asthma and allergic diseases and school absenteeism among Indian adolescents**  
Smriti Debnath (Khejurbagan, India), Prasun Haldar, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

**PA2067** **Association between allergy and asthma experience and awareness among adolescents: a structural equation modelling approach**  
Prasun Haldar (Kolkata, India), Smriti Debnath, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

**PA2068** **In-hospital Mortality and Hospital outcomes Among Adults Hospitalized for Exacerbations of Asthma and COPD in Thailand (2017-2021): A population-based Stud**  
Narongwit Nakwan (Songkhla, Thailand), Kanittha Suansan

**PA2069** **Causal risk factors for asthma in Mendelian randomization studies: A systematic review and meta-analysis**  
Heidi Mikkelsen (Køge, Denmark), Eskild M. Landt, Marianne Benn, Børge G. Nordestgaard, Morten Dahl

**PA2070** **Hospital admissions among asthmatic children in Tizi-Ouzou city before and during the COVID-19 pandemic**  
Salim Sadi (Tizi-Ouzou, Algeria), Idir Ramdani, Dihia Hadj-Said, Toufik Djerboua, Nabila Yata, Nadia Bensaadi, Belaid Bouazza

**PA2071** **Role of circadian typology in health-related quality of life in asthma**  
Subhabrata Moitra (Edmonton, Canada), Prasun Haldar, Augustus Anderson, Metin Akgün, Amanda Brickstock, Allie Eathorne, Ali Farshchi Tabrizi, Linda Henderson, Aditya Jindal, Surinder Jindal, Bugra Kerget, Lyle Melenka, Saibal Moitra, Rahul Mukherjee, Nicola Murgia, Alex Semprini, Alice Turner, Paige Lacy, Ana Adan

**PA2072** **Obesity increases all-cause and cardiovascular mortality in adults with asthma**  
Helena Backman (Lulea, Sweden), Axel Sturesson, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Linnea Hedman

**PA2073** **Asthma and asthma-like symptoms as associated with endometriosis and menstrual pain**  
Sanjay Gyawali (Bergen, Norway), Marianne Lønnebotn, Ane Johannessen, Eva Lindberg, Lars Modig, Vivi Schlünssen, Thorarinn Gislason, Cecilie Svanes, Francisco Gómez Real

**PA2074** **Global, regional, and national trends in incidence of asthma: findings from the Global Burden of Disease Study 2019**  
Yuhan Xing (Hong Kong, Hong Kong), Yingzhao Jin, Cui Guo, Lai Shan Tam, Dongze Wu

**PA2075** **Agreement between self-reported and registered age at asthma diagnosis**  
Elias Nurmi (Tampere, Finland), Iida Vähätalo, Pinja Ilmarinen, Heidi Andersén, Leena Tuomisto, Anssi Sovijärvi, Helena Backman, Lauri Lehtimäki, Linnea Hedman, Arnulf Langhammer, Bright Nwaru, Päivi Piirilä, Hannu Kankaanranta

**PA2076** **Respiratory tract infections associated with asthma exacerbation**  
Yong Il Hwang (Anyang, Republic of Korea), Ki-Suck Jung, Seung Hun Jang, Kwang Ha Yoo, Jung Hyun Chang

- PA2077** **Blood inflammatory phenotypes and clinical characteristics as determinants of persistent asthma in the Constances cohort**  
Tajidine Tsiavia (Villejuif, France), Joseph Henny, Marcel Goldberg, Celinie Ribet, Marie Zins, Nicolas Roche, Laurent Orsi\*, Rachel Nadif\*
- PA2078** **Obesity and migration factors are associated with asthma in ethnic populations**  
Jonathan Pham (London, United Kingdom), Mark Hew, Michael J Abramson, Caroline J Lodge, Aung K Win, Shuai Li, Shyamali C Dharmage
- PA2079** **Quality of life and its determinants in asthma patients in the Fez-Meknes region, Morocco**  
Nassiba Bahra (Fez, Morocco), Soukaina El Yaagoubi, Hind Bourkhime, Nabil Tachfouti, Mohamed Amine Berraho, Mounia Serraj, Mohammed Chakib Benjelloun, Bouchra Aamara, Samira El Fakir
- PA2081** **Mendelian randomization revealed the impact of GERD on asthma risk**  
Haoyu Wang (Chengdu, China), Ruiyuan Yang, Dan Liu, Weimin Li

PS-11 in poster area

Session 221

08:00 - 09:30

Poster session: Development and treatment of severe asthma

Disease(s) : Airway diseases

Method(s) : Epidemiology General respiratory patient care Pulmonary function testing Cell and molecular biology Physiology Imaging

Tag(s) : Translational

Chairs : Carmen Cornelia Maria de Jong (Stettlen, Switzerland), Eckard Hamelmann (Bielefeld, Germany)

- PA2082** **Severe asthma (SA) in children: data from the Italian society for paediatric respiratory diseases (SIMRI) database**  
Silvia Carraro (Padova (PD), Italy), Michele Piazza, Francesco Carella, Bianca Cinicola, Anna Del Colle, Maria Elisa Di Cicco, Valentina Fainardi, Grazia Fenu, Simone Fontijn, Michele Ghezzi, Mattia Giovannini, Ahmad Kantar, Amelia Licari, Sara Manti, Angelo Mazza, Raffaella Nenna, Antonio Augusto Niccoli, Marta Piotto, Massimiliano Raso, Laura Tenero, Chiara Trincianti, Andrea Francavilla, Franca Rusconi
- PA2083** **PEDIATRIC SEVERE ASTHMA: HIGH-RESOLUTION CT FEATURES**  
Amelia Licari (Pavia (PV), Italy), Maria De Filippo, Salvatore Fasola, Martina Votto, Maria Sole Prevedoni Gorone, Gian Luigi Marseglia, Stefania La Grutta
- PA2084** **A real-life study on children with severe asthma starting biologicals: results of the PANDA study**  
Yoni Van Dijk (Badhoevedorp, Netherlands), Milou A. Brandsen, Simone Hashimoto, Niels Rutjes, Kornel Golbski, Frederique Vermeulen, Suzanne Terheggen-Lagro, Bart Van Ewijk, Anke-Hilse Maitland-Van Der Zee, Susanne Vijverberg
- PA2085** **Association between airway dimension, the clinical severity of bronchiolitis and the development of pre-school wheezing**  
Greta Di Mattia (Roma (RM), Italy), Laura Petrarca, Enrica Mancino, Luigi Matera, Maria Giulia Conti, Silvia Bloise, Antonella Frassanito, Domenico Paolo La Regina, Elio Iovine, Margherita Di Jorgi, Enea Bonci, Raffaella Nenna, Fabio Midulla
- PA2086** **Asthma exacerbations in severe asthmatic children: Association with clinical scores, FeNO and lung function.**  
María Belen Lucero (CABA, Argentina), Gabriela Peláez, Verónica Aguerre, Juan Manuel Figueroa, Verónica Giubergia
- PA2087** **Mepolizumab in children and adolescents with severe eosinophilic asthma not eligible for Omalizumab: a single centre experience**  
Yu Ting Lim (Glasgow, United Kingdom), Thomas Williams, Ross Langley, Elise Weir
- PA2088** **Ezrin: potential biomarker of airway epithelial repair and wheeze morbidity in children**  
Thomas Iosifidis (Perth (WA), Australia), Ingrid Laing, Andre Schultz, Joseph Ho, Alphons Gwatimba, Siew-Kim Khoo, Sherlynn Ang, Peter Le Souef, Yuliya Karpievitch, Anthony Kicic, Stephen Stick
- PA2089** **The soluble form of the receptor for advanced glycation end products (sRAGE) in infants with first and recurrent episodes of wheezing in correlation with lung ultrasound findings**  
Polina Shahid (Sofia, Bulgaria), Sirma Mileva, Gergana Petrova, Snežina Mihailova, Venelin Alexiev
- PA2090** **Dupilumab improves lung function responder rates in children with type 2 asthma in the VOYAGE study**  
Theresa Guilbert (Cincinnati, United States), Alessandro G. Fiocchi, Kevin R. Murphy, Eckard Hamelmann, Kristie Ross, Atul Gupta, Changming Xia, Rebecca Gall, Olivier Ledanois, Amr Radwan, Juby A. Jacob-Nara, Paul J. Rowe, Yamo Deniz
- PA2091** **Long-term dupilumab effect on lung function in paediatric patients with uncontrolled asthma**  
Leonard Bacharier (Nashville, United States), Theresa W. Guilbert, Adnan Custovic, Arman Altincatal, Olivier Ledanois, Rebecca Gall, Harry Sacks, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe

- PA2092** **A retrospective multi-center chart review study on the timely administration of systemic corticosteroids in children with moderate-to-severe asthma exacerbations**  
Luna Antonino (Edegem, Belgium), Eva Goossens, Josefien Van Olmen, Ann Bael, Johan Hellinckx, Isabelle Van Ussel, An Wouters, Tijl Jonckheer, Tine Martens, Sascha Van Nuijs, Carolin Van Rossem, Yentl Driesen, Nathalie Jouret, Eva Ter Haar, Sabine Rozenberg, Els Vanderschaeghe, Suzanne Van Steijn, Stijn Verhulst, Kim Van Hoorenbeeck
- 
- PA2093** **Factors associated with severe asthma exacerbation in children**  
Besma Hamdi (Tunis, Tunisia), Mohamed aymen Jebali, Sabrine Louhaichi, Synda Derouiche, Siwar Rejeb, Farah Garci, Houneida Ben Zekri, Jamel Ammar, Agnes Hamzaoui
- 
- PA2094** **Comparing functional surrogacy in the upper and lower airway epithelium**  
Thomas Iosifidis (Perth (WA), Australia), Ingrid Laing, Alphons Gwatimba, Joseph Ho, Eda Pui, Loanne Harrison, Rebecca Watkinson, Samuel Montgomery, Kevin Looi, Siew-Kim Khoo, Peter Le Souef, Yuliya Karpievitch, Stephen Stick, Anthony Kicic
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- PA2095** **Elevated Neutrophil-to-Lymphocyte ratio is associated with severe asthma exacerbation in children**  
Noga Arwas (Beer Sheva, Israel), Sharon Uzan Shvartzman, Aviv Goldbart, Romi Bari, Itay Hazan, Amir Horev, Inbal Golan Tripto
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- PA2096** **Blood hypereosinophilia in childhood asthma: impact on disease severity**  
Besma Hamdi (Tunis, Tunisia), Siwar Rejeb, Hamdi Besma, Jebali Aymen, Derouich Synda, Garci Farah, Ammar Jamel, Louhaichi Sabrine, Agnès Hamzaoui
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- PA2097** **Adherence to inhaled steroids in children on asthma biologics; prescription uptake for inhaled steroids in children treated with asthma biologic therapy.**  
Susan Frost (Birmingham (West Midlands), United Kingdom), Laura Morris, Leanne Illife, Isobel Brookes, Benjamin Davies, Priti Kenia, Satish Rao, Prasad Nagakumar
- 
- PA2098** **Predicting aerosol deposition in children with severe asthma and small airways disease**  
Harm Tiddens (Rotterdam, Netherlands), Wytse van den Bosch, E.J. Ruijgrok, Hettie M. Janssens
- 
- PA2099** **Portable oscillometry in preschool children attending the Emergency Department with wheezing**  
Senali Y Seneviratne (Leicester, United Kingdom), Saxon Law-Gleen, Damian Roland, Erol Gaillard
- 
- PA2100** **Impedance and spirometry measurements compared in paediatric outpatients with recurrent respiratory symptoms**  
Maria Cristina Mazzuca (roma, Italy), Giorgia Raponi, Sara Mascambroni, Carla Trovato, Melania Evangelisti, Maria Alejandra Valderrama, Pasquale Parisi, Mario Barreto
- 
- PA2101** **Dupilumab reduces systemic corticosteroid exposure in children with uncontrolled moderate-to-severe asthma regardless of prior exacerbations**  
Eckard Hamelmann (Bielefeld, Germany), Antoine Deschildre, Francine M. Ducharme, Lawrence D. Sher, Ines De Mir, Changming Xia, Rebecca Gall, Olivier Ledanois, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz

PS-12 in poster area

Session 222

08:00 - 09:30

Poster session: Evaluation of lung function techniques and sleep studies in paediatrics.

Disease(s) : **Sleep and breathing disorders** **Airway diseases**

Method(s) : General respiratory patient care Physiology Pulmonary function testing Respiratory intensive care Epidemiology Imaging

Tag(s) : Clinical

Chairs : Nicole Beydon (Paris, France), Monique Slaats (Rotterdam, Netherlands)

- PA2102** **Detecting pediatric breathing: How do CPAP/NIV devices work?**  
Emeline Fresnel (Bois-Guillaume, France), Meryl Vedrenne-Cloquet, Marius Leuret, Lucie Griffon, Brigitte Fauroux, Sonia Khirani
- 
- PA2103** **Can ventilator's built-in software predict hypercapnia or desaturation in children on chronic non-invasive ventilation? A retrospective study**  
Jolien Paulussen (Molenbeek-Wersbeek, Belgium), Xante Mentens, Janne Vanhees, Sophie Installé, Anse Van Ostaeyen, Kris Ides, Nathalie Jouret, Kim Van Hoorenbeeck, Stijn Verhulst
- 
- PA2104** **A comparison of machine generated AHI to ODI measured by pulse oximetry in paediatric patients on CPAP**  
Natalie Blyth (Leicester, United Kingdom), Joe Madge, Prakash Patel, Tahera Doctor, Molla Imaduddin Ahmed
- 
- PA2105** **Paediatric long-term noninvasive respiratory support in children with central nervous system disorders: a French cross-sectional study.**  
Marion Carrara (Paris, France), Guillaume Aubertin, Sonia Khirani, Brigitte Fauroux, Jessica Taytard

- PA2106 Long term continuous positive airway pressure and noninvasive ventilation in children with OSA-I and OSA-II in France**  
Chiara Tommesani (Milano, Italy), Sonia Khirani, Lucie Griffon, Brigitte Fauroux
- PA2107 Comparison of Demographic, Respiratory, and Polysomnography-Capnography Results of Patients with Duchenne Muscular Dystrophy**  
Mine Kalyoncu (Istanbul, Turkey), Yasemin Gokdemir, Cansu Yılmaz Yeğit, Mürüvvet Yanaz, Aynur Gulieva, Merve Selçuk, Şeyda Karabulut, Neval Metin Çakar, Pınar Ergenekon, Ela Erdem Eralp, Gülten Öztürk, Olcay Ünver, Dilşad Türkdoğan, Fazilet Karakoç, Bulent Karadağ
- PA2108 Transition from tracheostomy to Non-Invasive Ventilation in children with Congenital Central Hypoventilation Syndrome**  
Jenny Taylor (London, United Kingdom), Alice Crawshaw, Garry Rendle, Vasileios Patelis, Martin Samuels, Elaine Chan
- PA2109 Optical coherence tomography angiography evaluation of choriocapillaris and retinal vessel density in children with obstructive sleep apnea syndrome**  
Melania Evangelisti (Roma (RM), Italy), Solmaz Abdolrahimzadeh, Marta Arpinelli, Marco Del Pozzo, Gianluca Scuderi, Mario Barreto, Giovanni Di Nardo, Pasquale Parisi, Maria Pia Villa
- PA2110 Oxidative stress in children with obstructive sleep apnea syndrome**  
Melania Evangelisti (Roma (RM), Italy), Marta Arpinelli, Manuela Cecili, Martina Forlani, Maurizio Simmaco, Giovanni Di Nardo, Pasquale Parisi, Maria Pia Villa
- PA2111 Hyperventilation provocation test in children: what is more frequent, symptoms or hypocarbia?**  
Nicole Beydon (Paris, France), Corentin El Jammal, Houda Saleh-Guillo, Marc Koskas, Lucia Maingot, Noria Medjahdi, Marie-Claude La Rocca
- PA2112 Applicability of the Global Lung Function Initiative (GLI)-2012 equations to Hong Kong Chinese children**  
Ching Ching Kate Chan (Hong Kong, Hong Kong), Huichen Zhu, Chun T Au, Hoi M Yuen, Hui Y Chin, Michelle Yu, Magnum Yu, Albert M Li
- PA2113 Impact of new Guidelines on the Quality of Spirometry in Paediatrics**  
Carolina Arez Constant (Lisboa, Portugal), Ana M Silva, Ângela Drago, Andreia Descalço, Ângela Martins, Teresa Bandeira
- PA2114 Criteria For Bronchodilator Responsiveness Testing In Children. The Most Adequate Is...**  
Carolina Arez Constant (Lisboa, Portugal), Andreia Descalço, Ângela Drago, Ângela Martins, Ana M Silva, Teresa Bandeira
- PA2115 Lung Clearance Index (LCI) is sensitive to CF lung disease and normal result is reassuring.**  
Kenneth A. Macleod (Edinburgh (Edinburgh), United Kingdom), Heather Dowle, Taylor Gilchrist, Kellie Moffat, Jody Forster, Don S Urquhart
- PA2116 Automated quality control for spirometry as a tool for faster and more objective results**  
Xenia Bovermann (Bern, Switzerland), Léa Ho Dac, Marion Curdy, Nadine Meuwly, Carmen Streibel, Bettina Frauchiger, Philipp Latzin
- PA2117 In-vitro comparison of infant SF6-multiple-breath washout setups**  
Marc-Alexander Oestreich (Bern, Switzerland), Robin Hänni, Florian Wyler, Blaise Etter, Anne-Christianne Kentgens, Dominik Obrist, Philipp Latzin, Kathryn Ramsey, Sophie Yammine
- PA2118 Leg muscle function and exercise capacity in adolescents living with obesity**  
Larry C. Lands (Montréal (QC), Canada), Juliano Colapelle, Julie St-Pierre, Julius Erdstein
- PA2119 A comparison of CPET protocol selection methods in a Leicestershire paediatric cohort**  
Natalie Blyth (Leicester, United Kingdom), Joe Madge, Prakash Patel, Molla Imaduddin Ahmed
- PA2120 Late Breaking Abstract - New aerosol based method detects enlarged distal airspaces in adolescents that were born preterm**  
Jakob Löndahl (Lund, Sweden), Hugo Öhrneman, Frida Lindström, Cecilia Hagman, Madeleine Petersson Sjögren, Jenny Rissler, Per Wollmer, Ellen Tufvesson
- PA2121 Late Breaking Abstract - Pulmonary small and large vessel blood volume in severe bronchopulmonary dysplasia**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Merlijn Bonte, Joana Costa, Liesbeth Duijts, Patrick Muchmore, Charles Mussche, Irwin Reiss, Pierluigi Ciet

**Disease(s) :** Respiratory critical care Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Physiology Respiratory intensive care Pulmonary function testing Imaging Surgery Cell and molecular biology  
Public health General respiratory patient care

**Tag(s) :** Translational

**Chairs :** Emanuela Zannin (Milano (MI), Italy), Anna Lavizzari (Milano (MI), Italy)

- PA2122 Fetal breathing patterns in a lamb model of tracheal occlusion for antenatal treatment of congenital diaphragmatic hernia**  
Mar Janna Dahl (Salt Lake City, United States), Chiara Veneroni, Stefano Robbiani, Francesco Tarantini, Lorenzo Ventura, Anna Lavizzari, Peter Noble, Lorenza Draghi, Jane Pillow, Raffaele Dellaca
- 
- PA2124 A morphometric lung model for studying lung aeration at birth**  
Chiara Veneroni (Milano (MI), Italy), Enrico Conca, Davide Bizzotto, Alberto Tosi, Kenneth Lutchen, Raffaele Dellaca
- 
- PA2125 Lung function response to postnatal corticosteroids in very preterm infants**  
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Sofia Chiaraluca, Maria Luisa Ventura
- 
- PA2126 Reduced lung function during childhood after fetal growth restriction in discordant identical twins**  
Jip Anne Spekman (Leiden, Netherlands), Joël Israëls, Ilja De Vreede, Mady Los, J J Miranda Geelhoed, Monique C Haak, Arno A W Roest, Jeanine M M Van Klink, Enrico Lopriore, Sophie G Groene
- 
- PA2127 Pulmonary Function by Impulse Oscillometry System and Outcomes in Children Born Extremely Preterm at 4 Years of Age**  
Celine Delestrain (Creteil, France), Kenza Tahiri, Floriane Sauvage, Kamel Halitim, Xavier Durrmeyer, Houmam El Jurdi, Camille Jung, Isabelle Hau, Manon Tauzin, Fabrice Decobert, Christophe Delacourt, Ralph Epaud, Fouad Madhi
- 
- PA2128 Can breathing pattern assessment predict the need for ventilatory support in treated Spinal muscular atrophy type 1 (SMA1) infants?**  
Antonella LoMauro (Milano (MI), Italy), Chiara Mastella, Mariacristina Scoto, Francesco Muntoni, Elaine Chan, Lisa Edel, Andrea Aliverti, Giovanni Baranello
- 
- PA2129 Lung biopsies in infants and children in critical care situation**  
Nadia Nathan (Paris, France), Yael Levy, Lauren Bitton, Chiara Sileo, Jérôme Rambaud, Yohan Soreze, Marie Legendre, Camille Louvrier, Harriet Corvol, Erik Hervieux, Pierre-Louis Leger, Blandine Prevost, Aurore Coulomb L'Herminé
- 
- PA2130 Rates of BPD in extremely preterm survivors in Sweden, 2014-2016 vs. 2004-2007**  
Petra Johanna Um-Bergström (Sollentuna, Sweden), Linn Löfberg, Thomas Abrahamsson, Magnus Domellöf, Aijaz Farooqi, Christian Gadsbøll, Anders Elfvin, Stellan Håkansson, Karin Källén, David Ley, Mikael Norman, Erik Normann, Fredrik Serenius, Richard Sindelar, Karin Sävman, Lena Hellström Westas, Ulrika Ådén, Lars Björklund
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- PA2131 Comparing the effect on lung surfactant function of high-frequency oscillatory ventilation and conventional mechanical ventilation in piglets**  
Paula Losada-Oliva (Madrid, Spain), Chiara Autilio, Noelia González-Pacheco, Cristina Ramos-Navarro, Ana Rodríguez-Sánchez De La Blanca, Martín Santos, Bárbara Olmeda Lozano, Jesús Pérez-Gil, Manuel Sánchez-Luna
- 
- PA2132 Circulatory adaptation to dexamethasone for severe lung disease in extremely preterm infants: An echocardiographic study**  
Arvind Sehgal (Melbourne (VIC), Australia), Marcel Nold, Calum Roberts, Samuel Menahem
- 
- PA2123 Nasal High-Flow Therapy versus Low-Flow Oxygen Therapy post-discharge in infants with Bronchopulmonary Dysplasia: a retrospective observational study.**  
Anna Lavizzari (Milano (MI), Italy), Alessia Mariani, Elisabetta Ghezzi, Nicola Pesenti, Marijke Ophorst, Silvana Gangi, Mariarosa Colnaghi, Fabio Mosca
- 
- PA2133 Dose-dependent impact of human milk feeding on tidal breathing flow-volume loop-parameters across the first two years of life in extremely low-birth-weight infants.**  
Anna Lavizzari (Milano (MI), Italy), Benedetta Esposito, Nicola Pesenti, Giulia Vizzari, Marijke Ophorst, Silvana Gangi, Mariarosa Colnaghi, Fabio Mosca, Maria L Gianni
- 
- PA2134 Optimization of albuterol delivery via an anesthesia bag in pediatric critical care**  
Sebastien Tessier (Winnipeg, Canada), Louise Chartrand, Andrew Halayko, Victoria Plowsay
- 
- PA2135 Associations between ethnicity, oxygenation and oxidative stress in preterm infants**  
Christopher Harris (London, United Kingdom), Ourania Kaltsogianni, Sara Zaidi, Ravindra Bhat, Anne Greenough, Theodore Dassios
- 
- PA2136 Effects of a Spontaneous Breathing Trial In Children With Tracheostomy And Long-Term Mechanical Ventilation**  
Gregory Villarreal Silva (Santiago, Chile), Yorschua Jalil-Contreras, Eduardo Moya-Gallardo, Ignacio Oyarzún Aguirre, Gonzalo Moscoso Altamira, Claudia Astudillo M, L.Felipe Damiani

**PA2137** **The hypoxic challenge test in preterm born infants**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Stephanie J.A. Balink, Andre A. Kroon, Liesbeth Duijts, Renate M.C. Swarte, Beatrijs Bartelds, Laurens P. Koopman, Irwin K.M. Reiss

**PA2138** **Epithelial lining fluid Surfactant Protein-D levels in extremely preterm neonates in the first hours of life**  
Chiara Autilio (Madrid, Spain), Daniele De Luca, Raquel Arroyo, Antonio Picerno, Paul Kingma

**PA2139** **Feasibility and acceptability of pulse oximeter (PO) in Integrated Management of Neonatal and Childhood Illnesses (IMNCI) services by public health facilities - Qualitative study.**  
Dhiraj Agarwal (Pune (Maharashtra), India), Manisha Gore, Anand Kawade, Sudipto Roy, Ashish Bavdekar, Harish Nair, Sanjay Juvekar, Girish Dayma

**PA2140** **Developing a Priority Setting Partnership for preterm lung health (on behalf of PELICAN CRC)**  
Naomi Hemy (ASHFIELD, Australia), Amber Bates, Belinda Frank, Anne Mc Kenzie, Shannon Simpson

**PA2141** **Late Breaking Abstract - MRI identifies functional and structural BPD characteristics in preterm infants at five years of age**  
Anne Hilgendorff (München, Germany), Kathrin Strobl, Kai Foerster, Alida Kindt, Friederike Häfner, Benjamin Schubert, Florian Heinen, Andreas Flemmer, Olaf Dietrich, Sophia Stöcklein

PS-14 in poster area

Session 224

08:00 - 09:30

Poster session: Cystic fibrosis in adults: a changing scene

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Pulmonary function testing General respiratory patient care Transplantation Imaging Cell and molecular biology Palliative care Physiology

Tag(s) : Clinical

Chairs : Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)

**PA2142** **Impact of CFTR modulators on lung transplant trends in people with cystic fibrosis in the US**  
Christian Merlo (Baltimore, United States), Grace R. Lyden, David P. Schladt, Matthew J. Camiolo, Lisa Mcgarry, Zailong Wang, Jessica Morlando Geiger

**PA2143** **Long-term clinical outcomes of Elexacaftor/Tezacaftor/Ivacaftor therapy in adults with cystic fibrosis and severe lung disease**  
Daniela Savi (Rome, Italy), Francesca Lucca, Marisol Ocampo Barao, Ilaria Meneghelli, Francesca Pauro, Monica Signorini, Marco Cipolli

**PA2144** **Lung Clearance Index (LCI) and BMI are consistent with functional improvement in adult CF patients (pwCF) after elexacaftor/tezacaftor/ivacaftor (ETI) treatment**  
Francesca Lucca (Verona, Italy), Sonia Volpi, Cecilia Brignole, Giulia Cucchetto, Giulia Paiola, Anna Pegoraro, Sara Tomezzoli, Marco Cipolli

**PA2145** **The impact of CFTR modulator therapy on body composition in patients with cystic fibrosis and advanced lung disease**  
Ivan Bambir (Zagreb, Croatia), Andrea Vukić Dugac, Lucija Josić, Martina Jelavić, Marko Banić, Duška Tješić-Drinković

**PA2146** **Real-Life Adverse Effects of the New Cystic Fibrosis Modulator Therapy**  
Amélia Simas Ribeiro (Lisboa (Lisboa), Portugal), Pilar Azevedo, Carlos Lopes

**PA2147** **Structural changes in lung morphology after modulating therapy with elexacaftor/tezacaftor/ivacaftor in patients with cystic fibrosis**  
Valentina Fainardi (Parma (PR), Italy), Kaltra Skenderaj, Andrea Ciuni, Gianluca Milanese, Michela Deolmi, Francesco Longo, Nicola Sverzellati, Susanna Esposito, Giovanna Pisi

**PA2148** **Lung volumes as possible factors explaining the heterogeneity in the response to elexacaftor/tezacaftor/ivacaftor in patients with cystic fibrosis and advanced lung disease**  
Chiara Premuda (Milano, Italy), Andrea Gramegna, Sofia Misuraca, Gianfranco Alicandro, Francesca Lucca, Mariangela Retucci, Francesco Amati, Sonia Volpi, Stefano Aliberti, Marco Cipolli, Francesco Blasi

**PA2149** **Evaluation of the therapeutic response to CFTR protein modulator treatments, in the management of patients with cystic fibrosis by lung ultrasound.**  
Sabrina Duval (Le Havre, France), Nicolas Mazellier, Marion Dupuis, Marlène Murriss-Espin, Benoit Douvry, Thomas Flament, Magali Dupuy-Grasset, Julia Ballouhey, Damien Basille, Baptiste Arnouat, André Gillibert, Hélène Morisse-Pradier, Gilles Mangiapan, Elise Artaud-Macari

- PA2150** **Effect of ETI on the degree of adherence to inhaled medication in adults with CF: a multi-center study in Greece.**  
Aikaterini Manika (Pylaia (Thessaloniki), Greece), Filia Diamantea, Anna Tsakona, Alexandros Kakolyris, Athina Sopiadou, Maria Sionidou, Serafeim Chrysovalantis Kotoulas, Sirmo Stiliani Kirvasili, Marija Hadji-Mitrova, Eleni Papadaki, Elisavet-Anna Chrysochoou, Elpis Hatziaigorou
- PA2151** **Decreased mucolytic prescriptions in Phe508del homozygous Cystic Fibrosis Adults on Elexacaftor-tezacaftor-ivacaftor (Kaftrio/Trikafta)**  
Mohammed Azib Zahid (LONDON, United Kingdom), James Hartley, Akangsha Sur Roy, Clare Lau, Frederick Jarvis, Komal Mukhtar, Malik Khan
- PA2152** **Pulmonary function and quality of life in adults with cystic fibrosis: a cross-sectional analysis from the InSPIRE:CF trial**  
Natalia Smirnova (Atlanta, United States), Jane Lowers, William Hunt, Matthew Magee, Pedro Lamothe, Sara Auld, Dio Kavalieratos
- PA2153** **Quality of life (QOL) of Tunisian patients with Cystic Fibrosis (CF)**  
Asma Knaz (Sousse, Tunisia), Aissa Sana, Kacem Amani, Handous Rayhane, Ben Bedira Baraa, Ben Jazia Rahma, Gargouri Imen, Benzarti Wafa, Abdelghani Ahmed
- PA2154** **Lower levels of bacterial aerobic respiration in sputum from people with cystic fibrosis with chronic lung infection**  
Mette Kolpen (København, Denmark), Peter Østrup Jensen, Pernille Olsen, Arnold Matovu Dungu, Birgitte Lindegaard, Frederik Boëtius Hertz, Thomas Bjarnsholt, Daniel Faurholt-Jepsen
- PA2155** **Clinical follow up after SARS-COV2 infection in Cystic Fibrosis patients**  
Ana Gomez Ortiz (Seville, Spain), Laura Carrasco Hernández, Lucas Román Rodríguez, Esther Quintana Gallego
- PA2156** **Nasal potential difference (NPD) and extended genetic analysis improve classification of CF and CFTR-related disorders: outcomes from a national difficult CF diagnosis (DCFD) service**  
Elif S. Agaoglu (London, United Kingdom), Deborah J Morris-Rosendahl, Michael D Waller, Ellie Quinn, Winston Banya, Imogen Felton, Rachel Robinson, Eric W Alton, Jane C Davies, Nicholas J Simmonds
- PA2157** **Sweat Chloride Concentration as a Surrogate Marker of CFTR Modulator Therapy Response**  
Amélia Simas Ribeiro (Lisboa (Lisboa), Portugal), Pilar Azevedo, Carlos Lopes, Patrícia Veloso
- PA2158** **Forced oscillation technique for monitoring the respiratory status of adult cystic fibrosis patients**  
Anamarija Štajduhar (Zagreb, Croatia), Martina Batarilo Hadar, Ivona Markelić, Matea Škoro, Ivan Bambir, Duška Tješić-Drinković, Andrea Vukić Dugac
- PA2159** **Cystic Fibrosis and Fit-to-Fly (CYFF Study)**  
Aina Akerø (Oslo, Norway), Elisabeth Edvardsen, Pål Finstad, Bjørn Skrede, Mia Østerhaug, Sofia Backman, Anne Edvardsen, Ole Henning Skjøsberg
- PA2160** **Real-life experience using intravenous Fosfomycin in patients with Cystic Fibrosis and non-Cystic Fibrosis bronchiectasis**  
Luca Riberi (Torino (TO), Italy), Letizia Valsecchi, Andrea Falco, Nausicaa Scopelliti, Chiara Mossetto, Simone Soccal, Sara Demichelis, Alberto Perboni, Barbara Messori
- PA2161** **Clinical outcome of aminoglycoside therapy in Cystic Fibrosis patients, a single center experience.**  
Mona Allangawi (Doha, Qatar), Merlin Thomas, Mousa Hussein, Dana Bakdach, Reem El-Ajez, Anam Elarabi, Mansoor Hameed, Aisha Aladab, Abdullah Arshad

PS-15 in poster area

Session 225

08:00 - 09:30

Poster session: Advances in the diagnosis and treatment of non-tuberculous mycobacterial lung disease

Method(s) : General respiratory patient care Pulmonary rehabilitation Cell and molecular biology Epidemiology Imaging Physiology Public health

Tag(s) : Clinical

Chairs : Dirk Wagner (Freiburg, Germany), Claire Andrejak (Amiens, France)

- PA2162** **Non tuberculous mycobacterial pulmonary disease: a single center experience analysis**  
Nicola Baio (Pavia, Italy), Simone Montini, Francesco Rocco Bertuccio, Lucrezia Pisanu, Valentina Ferroni, Vittorio Chino, Vincenzo Sanci, Paolo Cosseta Reposi, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico
- PA2163** **Incremental hospitalization burden of nontuberculous mycobacterial lung disease in patients with asthma in Japan**  
Kozo Morimoto (Tokyo, Japan), Naoki Hasegawa, Ping Wang, Emily Xie, Mariam Hassan

- PA2164** **Epidemiological Trends in Nontuberculous Mycobacterial Infection among People with Cystic Fibrosis in Germany**  
Mathis Steindor (Essen, Germany), Sylvia Hafkemeyer, Christian Ruckes, Florian Stehling, Lutz Naehrlich, Felix C. Ringshausen
- PA2165** **The role of gut microbiota dysbiosis in nontuberculous mycobacterial lung disease: possible causal relationship and pathogenesis**  
Chin-Chung Shu (Taipei, Taiwan), Tzu-Lung Lin, Hsin-Chih Lai
- PA2166** **Patient-reported burden of nontuberculous mycobacterial lung disease - results from a European patient survey**  
Roald van der Laan (Huijbergen, Netherlands), Christian Hoening, Roger Legtenberg, Andreas Reimann, Marko Obradovic
- PA2167** **Our experience in the treatment of non-tuberculous mycobacteria**  
Andrea Expósito Marrero (San Cristobal A La Laguna, Spain), Jesús Rodríguez González, Carmen Palacios Clar, Nuria Castejon Pina, Adrian Baeza Ruiz, Jose Luis Trujillo Castilla
- PA2168** **Understanding patients at risk of NTM-PD using a modified Delphi process**  
Michael Loebinger (London, United Kingdom), Stefano Aliberti, Charles S Haworth, Mateja Jancovic Makek, Christophe Lange, Natalie Lorent, Eva Polverino, Apostolos Papavasileiou, Gernot Rohde, Nicolas Veziris, Dirk Wagner, Jakko Van Ingen
- PA2169** **Disseminated mycobacterial infection in patients on ruxolitinib for myelodysplastic disorders**  
sophie roberts (London, United Kingdom), Philip Gothard, Hanif Esmail, Michael Brown, Johnathan Lambert, Holly Theaker, Ana Garcia-Mingo, Stephen Morris-Jones, Moerida Belton, Lusha Kellgren, Santino Capocci
- PA2170** **NTM pulmonary disease in a referral center: treatment adherence and outcomes in a retrospective cohort.**  
Natalie Lorent (Leuven, Belgium), Julie De Man, Nele Adriaenssens, Pascal Van Bleyenbergh, Michiel Happaerts, Emmanuel André
- PA2171** **Single cells RNA sequencing of peripheral blood mononuclear cells reveals that hyperinflammatory monocytes are associated with the risk of Mycobacterium abscessus pulmonary disease**  
Nicola Ivan Lore' (Milano (MI), Italy), Stefano De Pretis, Federico Di Marco, Andrea Gramegna, Fabio Saliu, Francesca Giannese, Francesco Blasi, Daniela Maria Cirillo
- PA2172** **Changes in sputum microbiota during treatment period in nontuberculous mycobacterial pulmonary disease**  
Bo-guen Kim (Seoul, Republic of Korea), Noeul Kang, Su-Young Kim, Dae Hun Kim, Sang-Heon Kim, Byung Wo Jhun
- PA2173** **Real-life experience of inhaled liposome amikacin in NTM patients from a tertiary referral hospital in Greece**  
Angeliki Loukeri (Nikaia (Piraeus), Greece), Evgenia Papathanassiou, Charalampos Moschos, Christos Kampolis, Apostolos Papavasileiou
- PA2174** **Clinical characteristics of non-tuberculous mycobacterial pulmonary disease patients according to respiratory microorganisms**  
BEOMSU SHIN (Wonju, Republic of Korea), Seong Mi Moon
- PA2175** **Physical activity and possible sarcopenia in patients with nontuberculous mycobacterial pulmonary disease**  
Young Ae Kang (Seoul, Korea, Republic of Korea), Eun Ki Chung, Youngmok Park, Dong-Hyuk Park, Justin Y. Jeon
- PA2176** **Addressing an unmet need in the management of nontuberculous mycobacterial infections in Belgium: 1 year experience of the NTM consilium**  
Natalie Lorent (Leuven, Belgium), Nele Adriaenssens, Samira Boarbi, Yannick Vande Weygaerde, Peter Bomans, Maja Kiselinova, Benedicte De Muynck, Maria Gabrovskaa, Eva Van Braeckel, Steven Callens, Maya Hites, Bénédicte Delaere, Sophie Gohy, Pascal Van Bleyenbergh, Leen Rigouts, Julie De Man, Laurens Ceulemans, Emmanuel André
- PA2177** **Association between physical activity and cough and sputum symptoms in patients with nontuberculous mycobacteria pulmonary disease**  
Kazuki Ono (Tokyo, Japan), Mitsuru Tabusadani, Hideaki Senjyu, Ryo Kozu
- PA2178** **Unravelling the pathogenicity of Mycobacterium abscessus cystic fibrosis clinical isolates in respiratory infection models**  
Fabio Saliu (Milan, Italy), Federico Di Marco, Francesca Nicola, Andrea Spitaleri, Amleto Fiocchi, Caterina Oneto, Francesca Giannese, Beatrice Silvia Orena, Lisa Cariani, Daniela Maria Cirillo, Nicola Ivan Lorè
- PA2179** **Deaths from Tuberculosis: Differences between Tuberculosis-related and Non-tuberculosis-related Deaths**  
yunjeong jeong (Goyang-Si, Republic of Korea), Jae Seuk Park, Hyung Woo Kim, Jinsoo Min, Yousang Ko, Jee Youn Oh, Eun Hye Lee, Bumhee Yang, Jung Hyun Chang, Min Ki Lee, Yun Seong Kim, Yangjin Jegal, Sung Soon Lee, Ju Sang Kim, Hyeon-Kyoung Koo



**Late Breaking Abstract - Predictive factors of microbiological negativization from Atypical Pulmonary Mycobacteriosis in a cohort from southeastern Italy**

**PA2180** Vitaliano Nicola Quaranta (Bari, Italy), Manuela Rollo, Viviana Turchiarelli, Vincenza Giorgio, Maria Grazia Tummolo, Ina Ali, Cristian Locorotondo, Francesca Montagnolo, Giuseppe Cassano, Irene Annamaria Di Pierro, Mariangela Tedone, Vito Liotino, Sonia Santamaria, Giuseppe Guida, Silvano Dragonieri, Andrea Portacci, Giovanna Elisiana Carpagnano

**PS-16 in poster area****Session 226****08:00 - 09:30****Poster session: Fungal infections and infections in airway disease****Disease(s) :** Airway diseases Respiratory critical care**Method(s) :** Epidemiology Cell and molecular biology General respiratory patient care Public health Respiratory intensive care**Tag(s) :** Translational**Chairs :** Charles Haworth (Cambridge, United Kingdom), Catia Cilloniz Campos (Barcelona, Spain)

- PA2181** **Identifying core domains of health-related quality of life in chronic pulmonary aspergillosis.**  
Dareen Marghlani (London, United Kingdom), Lisa Nwankwo, Darius Armstrong-James, Melody Ni, Anand Shah
- PA2182** **Accelerated evolution of azole resistant *Aspergillus fumigatus* by diesel particles**  
Kazuhiro Ito (London, United Kingdom), Valentina Huang, Leah Daly, Kirstie Lucas
- PA2183** **Accuracy of BAL galactomannan and *Aspergillus*-PCR in diagnosing chronic pulmonary aspergillosis**  
Animesh Ray (Kolkata (West Bengal), India), Mohit Chowdhury, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Navcet Wig
- PA2184** **A prospective study of the impact of a Fungal Multi-Disciplinary Team meeting on patient management at a Tertiary Referral Centre**  
Tanjila Khan (Harrow, United Kingdom), Nadiya Sultana, Karan Gour, Sarah Sheard, Laura Martin, Anan Ghazy, Joanna Peters, Richard Wilson, Renuka Palanicawandar, Mark Gilchrist, Darius Armstrong-James, Meg Coleman, Lydia Finney
- PA2185** **MANAGMENT OF ABPA WITH AZOLES AND STEROID THERAPY**  
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Stefano Carlo Zucchetti, Paola Faverio
- PA2186** **Fighting aspergillosis using biocontrol bacteria**  
Niki Ubags (Epalinges, Switzerland), Aurélien Trompette, Apiha Shanmuganathan, Julie Pernot, Fabio Palmieri, Eric Bernasconi, Christophe Von Garnier, Janick Stucki, Nina Hobi, Pilar Junier, Angela Koutsokera
- PA2187** **Dry powder aerosol of amphotericin b for treatment of pulmonary fungal disease**  
Matthew Reed (Albuquerque, United States), Craig Davies-Cutting, David Revelli, Amr Hefnawy, Hugh Smyth, Daniel Moraga-Espinoza, Philip Kuehl, Matthew Fergusson
- PA2188** **Environmental *Aspergillus fumigatus* associates with COPD exacerbations**  
Pei Yee Tiew (Singapore, Singapore), Micheal Mac Aogain, Tavleen Kaur Jaggi, Fransiskus Xaverius Ivan, Augustine Tee, Huiying Xu, Mariko Siyue Koh, Thun How Ong, John A. Abisheganaden, Stephan C. Schuster, Sanjay H. Chotirmall
- PA2189** **The impact of bacterial and fungal co-infections in patients with severe COVID – 19: a retrospective analysis**  
Pavel Yordanov (Varna, Bulgaria), Figen Mustafa, Vanya Kostadinova, Tanya Dobрева, Nadezhda Ilieva, Velislava Tasheva, Rositsa Krasteva, Konstantin Kapitanov, Pavlina Peneva, Darina Miteva, Valentina Dimitrova, Diana Petkova
- PA2190** **Retrospective review of fungal lung disease management, Brighton UK**  
Syrá Dhillon (Wokingham, United Kingdom), Emma Rivera, Aoife Hendrick, Gillian Jones, Vanessa Kahr, Katharine Hurt
- PA2191** **Asthma and bronchial infection**  
Tarek Cherif (Ariana, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Azza Slim, Hafaoua Daghfous, Fatma Tritar
- PA2192** **Impact of duration of inhaled antibiotic treatment in COPD patients with chronic bronchial infection by *Pseudomonas***  
Miguel Angel Leal García (Barcelona, Spain), Roser Costa Solà, Andrea Hernández Rizo, Annie Navarro Rolón, Cristina Esquinas López, Jose Sanz Santos, Marc Miravittles
- PA2193** **Mucus, microbiomes, and lung function decline in COPD**  
Oliver Ward Meldrum (Singapore, Singapore), Gavin C. Donaldson, Jayanth Kumar Narayana, Fransiskus Xaverius Ivan, Tavleen Kaur Jaggi, Micheál Mac Aogáin, James P. Allinson, Jadwiga A. Wedzicha, Sanjay H. Chotirmall
- PA2194** **Tolerance to inhaled antibiotic therapy in COPD patients and chronic bronchial infection by *Pseudomonas***  
Miguel Angel Leal García (Barcelona, Spain), Roser Costa Solà, Annie Navarro Rolón, Andrea Hernandez Rizo, Cristina Esquinas Lopez, Jose Sanz Santos, Marc Miravittles

- PA2195** **Chronic obstructive pulmonary disease in Denmark: Nationwide yearly proportion of patients with at least one moderate or severe pneumonia from 1995 to 2018**  
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke
- PA2196** **Pseudomonas aeruginosa predicts exacerbation frequency in Severe Asthma**  
Fransiskus Xaverius Ivan (Singapore, Singapore), Pei Yee Tiew\*, Tavleen Kaur Jaggi, Kai Xian Thng, Pee Hwee Pang, Thun How Ong, John A Abisheganaden, Mariko Siyue Koh, Sanjay H Chotirmall
- PA2197** **Impact of smoking in acute community acquired lung disease: severity and mortality**  
Houda Rouis (Ariana, Tunisia), SABRINE ELFIDHA, Hadhemi Rejeb, Hanen Smadhi, Hajer Abdelghaffar, Hela Hassene, Dorra Greb, Ines Akrouf, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche
- PA2198** **Late Breaking Abstract - Development of a Novel Scoring System to Predict Survival of Acute Invasive Fungal Rhinosinusitis Patients**  
Minhae Park (Seoul, Republic of Korea), Hyo Yeol Kim
- PA2199** **Late Breaking Abstract - The blood transcriptional response in ICU-acquired pneumonia**  
Justin de Brabander (Amsterdam, Netherlands), Erik H. A. Michels, Joe M. Butler, Tom D. Y. Reijnders, Tjitske S. R. Van Engelen, Giuseppe G. F. Leite, Fleur P. Paling, Marc J. M. Bonten, Leen Timbermont, Surbhi Malhotra-Kumar, Jan A. J. W. Kluytmans, Hessel Peters-Sengers, Tom Van Der Poll
- PA2200** **Late Breaking Abstract - Flagellin as an adjunctive to antibiotic treatment of MDR-Klebsiella pneumonia in mice**  
Christine C. A. van Linge (Amsterdam, Netherlands), Osoul Chouchane, Jean-Claude Sirard, Wil H. F. Goessens, Alex F. De Vos, Tom Van Der Poll

## PS-17 in poster area

## Session 227

08:00 - 09:30

## Poster session: Translating lung cancer: mechanisms, mutations, and prediction

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Thoracic oncology](#)

Method(s) : Cell and molecular biology Surgery Epidemiology Pulmonary function testing General respiratory patient care Endoscopy and interventional pulmonology Public health

Tag(s) : Translational

Chairs : Andriani Charpidou (Athens, Greece), Daniela Xhemalaj (Tirana, Albania)

- PA2201** **Cancer-related mutations in non-tumoral respiratory epithelium: long-term prognosis.**  
Roberto Chalela Rengifo (Barcelona, Spain), Emanuel Carmona, Albert Sánchez-Font, Víctor Curull, Pedro Rocha, Diana Badenes, Raquel Longarón, Joaquín Gea, Ignacio Sánchez-Guerri, Beatriz Bellosillo
- PA2202** **Prognostic impact of reactive oxygen species modulator 1 (Romo1) in resected EGFR-mutant lung adenocarcinoma**  
Tae Woo Kim (Seoul, Republic of Korea), Myung Jae Park, Seung Hyeun Lee
- PA2203** **Late Breaking Abstract - Factors affecting recurrence in early stage lung adenocarcinoma**  
Fatma Canbay (Nicosia, Cyprus), Ayperi Merzi Öztürk, Sema Canbakan, Funda Demirağ, Hakan Ertürk
- PA2204** **IL-17A promotes tumorigenesis and upregulate PD-L1 expression in Non-small cell lung cancer**  
Hua Liao (GuangZhou, China), Hangming Dong
- PA2205** **Crosstalk between Metformin and angiogenesis in lung cancer model**  
Jiun-Long Wang (Taichung, Taiwan), Chuan-Mu Chen
- PA2206** **Changes of lung microbiota composition in patients with non-small cell lung cancer**  
Vytautas Ankudavicius (Kaunas, Lithuania), Darja Nikitina, Rokas Lukosevicius, Jurgita Skieceviciene, Juozas Kupcinskas, Skaidrius Miliauskas, Marius Zemaitis
- PA2207** **Sphingolipid metabolism in the pathogenesis of advanced non-small cell lung cancer**  
Lilla Büdi (Budapest, Hungary), Dániel Hammer, Rita Varga, Veronika Müller, Adám Domonkos Tárnoki, Dávid László Tárnoki, Martina Mészáros, András Bikov, Péter Horváth
- PA2208** **Association of DNA repair gene O6-Methylguanine-DNA Methyltransferase (MGMT) expression with aberrant promoter methylation in Lung Cancer Progression**  
Supriya Karpathak (Lucknow, India), Rajiv Garg, Mohammad Kaleem Ahmad, Anand Srivastava, Neelam Misra, Anurag Kumar Srivastav
- PA2209** **Late Breaking Abstract - Higher radiation dose in chemoradiotherapy followed by immunotherapy with durvalumab in patients with stage III non-small cell lung cancer does not increase risk for pneumonitis.**  
Felix Schragel (Wien, Austria), Melanie Matousek, Christoph Resl, Peter Errhalt, Klaus Hackner
- PA2210** **Understanding BRAF mutation in non-small cell lung cancer patients**  
Giulia Squarizoni (Italy, Italy), Mariaenrica Tine, Davide Ortolan, Federica Pezzuto, Fiorella Calabrese

- PA2211** **Next-generation sequencing in stage I-III vs stage IV non-small cell lung cancer**  
Miguel Trigueiro Rocha Barbosa (Viana do Castelo, Portugal), Joana Ribeiro, Raquel Paulinetti, Telma Sequeira, Paulo Mota, Cristina Albuquerque, Teresa Almodovar
- PA2212** **Evaluation of PD-1 T lymphocytes in bronchoalveolar lavage in lung cancer compared to benign lung diseases**  
Barbara Hammer (Borstel, Germany), Christina Bal, Maximilian Gysan, Sonja Zehetmayer, Silvana Geleff, Andreas Zech, Markus Kramer, Seda Ayazseven, Marco Idzko, Mir Alireza Hoda, Daniela Gompelmann
- PA2213** **Prognostic significance of the IASLC Pathology Committee grading system for lung adenocarcinoma among Filipino patients**  
Aprille Anne Octaviano (Quezon City, Philippines), Ma. Janeth Samson, Rex Michael Santiago
- PA2214** **Spread through air spaces prognostic value in adenocarcinoma**  
Mara Daniela Silva Sousa (Vizela, Portugal), Mariana Gonzalez Ribeiro, Catarina Sousa, Hélder Novais-Bastos, David Araújo, Gabriela Fernandes, Adriana Magalhães, André Carvalho, Susana Guimarães, Conceição Souto Moura, Venceslau Hespanhol, Cláudia Freitas
- PA2215** **COMPARATIVE ANALYSIS ACCORDING TO ALPHA-1 ANTITRYPSIN GENOTYPE IN A COHORT OF PATIENTS WITH LUNG CANCER IN NORTHWEST SPAIN**  
Ramon Antonio Tubio Perez (Vigo, Pontevedra, Spain), Esmeralda Garcia Rodriguez, Ana Priegue Carrera, María Torres Durán, Carlos Vilariño Pombo, Raquel Dacal Quintas, Isaura Parente Lamelas, Raquel Barbosa Lorenzo, Alberto Fernandez Villar
- PA2216** **COPD patients with NSCLC respond better to immune checkpoints inhibitors**  
Augustin Boudoussier (Bordeaux, France), Iban Larroure, Pauline Henrot, Remi Veillon, Claire Bardel, Camille Chautemps, Pierre Schilfarth, Maeva Zysman
- PA2217** **Machine Learning Predicts metastasis of cT1 solid lung cancer**  
Li Yang (, China), Jing Huang, Jie Lan, Weiyi Li, Junhao Mu, Min Ao, Longke Ran

PS-18 in poster area

Session 228

08:00 - 09:30

Poster session: Sarcoidosis: disease mechanisms and pathogenesis

Disease(s) : [Interstitial lung diseases](#)

Method(s) : General respiratory patient care Cell and molecular biology Pulmonary function testing Endoscopy and interventional pulmonology Epidemiology

Tag(s) : Translational

Chairs : Marcel Veltkamp (De Meern, Netherlands), Natalia V. Rivera (Stockholm, Sweden)

- PA2218** **How informed are patients with pulmonary sarcoidosis about their disease?**  
Michael Kreuter (Heidelberg, Germany), Katharina Buschulte, Philipp Höger, Claudia Ganter, Marlies Wijssenbeek, Nicolas Kahn, Katharina Kriegsmann, Finn Moritz Wilkens, Bernd Stachetzki, Markus Polke, Sarah El-Hadi, Christoph Lederer, Felix Herth
- PA2219** **T follicular helper cell subsets in sarcoidosis patients: a comparison between three anatomical compartment.**  
Matteo Fanetti (Siena, Italy), Miriana D'Alessandro, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Vittoria Ventura, Sara Croce, Gaia Fabbri, Giusy Montuori, Marco Spalletti, Marta Abbritti, Stefano Baglioni, Paolo Cameli, Elena Bargagli
- PA2220** **Late Breaking Abstract - HLA-DR immunopeptidomics on cells from bronchoalveolar lavage**  
Benedikt Zöhrer (Stockholm, Sweden), Ákos Végvári, Johan Grunewald, Åsa M. Wheelock
- PA2221** **T helper and T cytotoxic cells subsets in peripheral, alveolar and lymph nodes of sarcoidosis patients**  
Maddalena Messina (Siena, Italy), Miriana D'Alessandro, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Magda Viani, Marco Guerrieri, Lucia Cassai, Elena Pordon, Sara Croce, Marta Abbritti, Stefano Baglioni, Paolo Cameli, Elena Bargagli
- PA2222** **CD4+ T cells from EBUS/TBNA samples express different immunomodulatory molecules in patients with sarcoidosis.**  
Agata Raniszewska (Warszawa, Poland), Elżbieta Rutkowska, Iwona Kwiecień, Piotr Miklusz, Karina Jahnz-Rózyk, Piotr Rzepecki
- PA2223** **RESPISAM: Type 1 inflammation biomarkers from bronchial mucosal lining fluid in parenchymal versus nodal sarcoidosis.**  
Osman Hatem (London, United Kingdom), Hannah Jarvis, Ryan Thwaites, Kavina Manalan, Tanushree Tunstall, Joan Nanan, Mica Tolosa-Wright, Ishita Marwah, Ak Reuschl, Trevor Hansel, Ajit Lalvani, Onn Min Kon
- PA2224** **Alveolar nitric oxide concentration as a potential biomarker of fibrosis in pulmonary sarcoidosis: a pilot study**  
Stefano Levra (Moncalieri, Italy), Fabiana Giannoccaro, Maria Chernovsky, Francesca Bertolini, Vitina Carriero, Elisa Arrigo, Flavio Crosa, Paolo Carlo Ghio, Giuseppe Guida, Fabio Luigi Massimo Ricciardolo

- PA2225** **CD56dimCD16bright in peripheral blood, lung lymph node and bronchoalveolar lavage from sarcoidosis patients**  
Vittoria Ventura (Siena, Italy), Lucia Cassai, Elena Pordon, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Baglioni Stefano, Marta Abbritti, Elena Bargagli, Miriana D'Alessandro
- PA2226** **Retrospective analysis of BeLPT over 20 years**  
Louis Jouanjan (Freiburg, Germany), Charlott Terschluse, Gernot Zissel, Caroline Quartucci, Joachim Müller-Quernheim, Daiana Stolz, Björn Christian Frye
- PA2227** **Defining serum TNF- $\alpha$  concentration related endotype of sarcoidosis- A Polish real-life retrospective observational study**  
Anna Goljan Geremek (Warszawa, Poland), Piotr Radzinski, Elzbieta Puscinska, Urszula Demkow
- PA2228** **Change in bone mineral density in Danish patients with sarcoidosis**  
Janne Møller (Skanderborg, Denmark), Lars Rejnmark, Elisabeth Bendstrup
- PA2229** **Evaluation of Xpert MTB/RIF Ultra in differentiating tuberculosis from sarcoidosis in patients with mediastinal lymphadenopathy**  
Sahajal Dhooria (Chandigarh, India), Kusum Sharma, Inderpaul Singh Sehgal, Ritesh Agarwal, Ashutosh Nath Aggarwal
- PA2230** **Is the internet a sufficient source of information on Sarcoidosis?**  
Michael Kreuter (Heidelberg, Germany), Katharina Buschulte, Philipp Höger, Claudia Ganter, Marlies Wijsenbeek, Nicolas Kahn, Katharina Kriegsmann, Finn Moritz Wilkens, Felix Herth
- PA2231** **An analysis of seasonality of sarcoidosis in Turkey**  
Emre Yanardag (Istanbul, Turkey), Muammer Bilir, Cuneyt Tetikkurt, Halil Yanardag
- PA2232** **PD-1/TIGIT axis: a novel therapeutic target?**  
Sara Gangi (siena, Italy), Simona Luzzi, Laura Bergantini, Paolo Cameli, Elena Bargagli, Miriana D'Alessandro
- PA2233** **Late Breaking Abstract - Transcriptomic profiling identifies pro-fibrotic macrophages under ferroptotic stress in silicosis**  
Christian Aloe (Bundoora, Australia), Nicole Soo Leng Goh, Jonathan Mcqualter, Reshma Pujari, Rhoda Cameron, Julie Teague, Paris Papagianis, Simon Hall Apte, Brendan O'Sullivan, Ross Vlahos, Christine Faye McDonald, Ryan Francis Hoy, Daniel Charles Chambers, Tracy Li-Tsein Leong, Steven Bozinovski
- PA2234** **Late Breaking Abstract - Tetrandrine alleviates silica-induced pulmonary fibrosis through PI3K/AKT pathway**  
Qiao Ye (Beijing, China), Ruimin Ma, Xiaoxi Huang, Di Sun, Jingwei Wang, Changjiang Xue
- PA2235** **Late Breaking Abstract - Targeting acid sphingomyelin/ceramide signaling to alleviate silica-induced pulmonary fibrosis**  
Qiao Ye (Beijing, China), Ruimin Ma, Di Sun, Jingwei Wang, Xiaoxi Huang, Na Wu

PS-19 in poster area

Session 229

08:00 - 09:30

Poster session: Pulmonary embolism: acute and long-term management (2)

Disease(s) : Pulmonary vascular diseases Respiratory critical care Interstitial lung diseases Airway diseases

Method(s) : Pulmonary rehabilitation General respiratory patient care Epidemiology Imaging Pulmonary function testing Public health Cell and molecular biology

Tag(s) : Clinical, Translational

Chairs : Luis Jara-Palomares (Sevilla, Spain), Cécile Tromeur (Brest, France)

- PA2236** **Exploring the efficacy of D-dimers in ruling out PE in high-risk individuals by Wells score**  
Cara M Gill (Dublin, Ireland), Helen O'Brien, Brian Gaffney, John Duignan, Marcus W Butler, Michael P Keane, Jonathan D Dodd, David J Murphy, Cormac Mc Carthy, Alessandro N Franciosi
- PA2237** **An Australian study on factors impacting the length of stay for acute pulmonary embolism**  
Ming Yan Teo (Ultimo (NSW), Australia), Xinxin Hu, Ming-Yan Teo, Mohan Nagarajah
- PA2238** **INPATIENT EXPERIENCE AVOIDANCE, PHYSICAL ACTIVITY, AND PERCEIVED DISABILITY AFTER A PULMONARY THROMBOEMBOLISM**  
Alejandro Heredia Ciuró (Granada, Spain), Ana Belén Gámiz Molina, Julia Raya-Benítez, Miguel Hernández Serrano, Carmen Lidia Félix Seguro, Javier Martín Núñez, Marie Carmen Valenza
- PA2239** **HANDGRIP STRENGTH AS PREDICTOR OF SYMPTOM SEVERITY AND HOSPITAL LENGTH OF STAY AFTER A PULMONARY THROMBOEMBOLISM**  
Alejandro Heredia Ciuró (Granada, Spain), Julia Raya-Benitez, Ana Belén Gámiz-Molina, Miguel Hernández-Serrano, Carmen Lidia Félix-Segura, Maria Granados-Santiago, Marie Carmen Valenza

PA2240	<b>Prognostic value of Shock Index in patients with hemodynamic unstable pulmonary embolism</b> Ivana Vujovic (Novi Sad, Republic of Serbia), Dušanka Obradović, Stanislava Sovilj Gmizić, Maja Banjac, Nemanja Kuštrimović
PA2241	<b>Protective effect of early anticoagulation for renal function in normotensive pulmonary embolism patients with right ventricular dysfunction</b> Dingyi Wang (Beijing, China), Guohui Fan, Xiaomao Xu, Qin Luo, Jun Wan, Peiran Yang, Zhenguo Zhai
PA2242	<b>Prognostic Impact of Acute Kidney Injury Compared with Estimated Glomerular Filtration in Patients with Acute Pulmonary Embolism: Analysis from a Large Nationwide Registry</b> Dingyi Wang (Beijing, China), Yishan Li, Guohui Fan, Zhenguo Zhai, Chen Wang
PA2243	<b>MicroRNAs expression before and after exercise in patients with persistent lung perfusion defects after pulmonary embolism</b> Remedios Otero Candelera (Sevilla, Spain), Berenice Brown Arreola, David Hervás Marín, Noelia Sola Idígora, Ezequiel Juan Saborido, María Dolores Nuñez Ollero, María Rosario Ruiz Serrano De La Espada, Cándido Fernández García, Teresa Elías Hernández, Luis Jara Palomares, Virginia Almadana Pacheco, Patricia Guerrero Zamora, Julia Oto Martínez, Pilar Medina Badenes, Pilar Cejudo Ramos, Verónica Sánchez Lopez
PA2244	<b>Cardiopulmonary exercise test to identify pulmonary arterial hypertension in patients with symptoms after acute pulmonary thromboembolism</b> Jose Belda Ramirez (Valencia, Spain), Maria Luisa Nieto Cabrera, Paula Pla Rodríguez
PA2245	<b>Competing risks analysis of recurrent venous thromboembolism (VTE) and bleeding on anticoagulation in patients with cancer-associated VTE</b> Francis Coutraud (Brest, France), David Simon, Raphael Le Mao, Leela Raj, Benjamin Espinasse, Claire De Moreuil, Cécile Tromeur, Marie Guégan, Elise Poulhazan, Emmanuelle Le Moigne, Karine Lacut, Christophe Leroyer, Isabelle Mahé, Emmanuel Nowak
PA2246	<b>Circulating, extracellular vesicle-associated tissue factor in cancer patients with and without venous thromboembolism</b> Valentina Lami (Pisa, Italy), Roberta Pancani, Andrea Sbrana, Tommaso Neri, Chiara Boccaccio, Alessandro Cipriano, Mario Gattini, Alessandro Celi, Dario Nieri
PA2247	<b>Risk factors for hospital outcomes in pulmonary embolism: a retrospective cohort study.</b> Giorgia Lüthi-Corridori (Liestal, Switzerland), Maria Boesing, Cedrine Kueng, Stéphanie Giezendanner, Munachimso Kizito Mbata, Anne Barbara Leuppi-Taegtmeier, Philipp Schuetz, Joerg Daniel Leuppi
PA2248	<b>Particularities of Pulmonary embolism in young adults</b> Manel khedhri (beja, Tunisia), Haifa Zaibi, Khoulood Chaabi, Emna Ben Jemia, Ella Nemsy, Jihen Ben Amar, Hichem Aouina
PA2249	<b>Sex differences in venous thromboembolism risk and outcomes after COVID-19: a population-based retrospective cohort study</b> Jason Weatherald (Edmonton, Canada), Grace Y. Lam, Michael K. Stickland, Chuan Wen, Ron W. Damant, Maeve P. Smith, Lesley Jj. Soril, Zuying Zhang, Adam G. D'Souza, Elissa Rennert-May, Jenine Leal
PA2250	<b>Covid-19 infection and chronic thromboembolic pulmonary disease: screening role of transthoracic echocardiography 2 years after hospitalization for interstitial pneumonia</b> Giuseppe Paciocco (Monza (MI), Italy), Marta Tundo, Andrea Lombi, Chiara Milano, Martina Messa, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Giulia Pittalis, Fabrizio Luppi, Paola Faverio
PA2251	<b>Cardiopulmonary complications after pulmonary thrombosis (PT) in COVID-19.</b> Joaquín María Martínez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suárez Castillejo, Nuria Toledo Pons, Francisco De Borja García-Cosío Piqueras, Luisa Ramon Clar, Belén Núñez Sánchez, Néstor Calvo Rado, Luminita Noje Noje, Jaume Pons Llinares, Antonieta Bellesteros Vizoso, Paula Argente Del Castillo Rodriguez, Daniel Morell Garcia, Luisa Martin Pena, Juan A Palmer Sancho, Jaume Sauleda, Ernest Sala
PA2252	<b>Pulmonary thrombosis (PT) in patients with covid-19 pneumonia: is it pulmonary thromboembolism or thrombosis in situ?</b> Carla Suarez Castillejo (Palma de Mallorca, Spain), Nestor Calvo, Aina Millan, Nuria Toledo, Amanda Iglesias, Joaquin Maria Martinez, Luminita Preda, Luisa Ramon, Danieal Morell, Josep Miquel Bauça, Belen Nuñez, Jaume Sauleda, Ernest Sala-Llinás, Alberto Alonso
PA2253	<b>Is acute pulmonary embolism a predictor of Post COVID-19 syndrome ?</b> Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hajer Racil, Mariem Chaabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch
PA2254	<b>Diagnostic Performance of Clinical Probability Scores for Pulmonary Embolism in COVID</b> Khoulood Chaabi (Tunis, Tunisia), Haifa Zaibi, HEND Ouertani, Safia Othmani, Emna Ben Jemia, Jihen Ben Amar, Hana Hedhli, Hichem Aouina

- PA2255** **Late Breaking Abstract - Development and validation of machine learning model for automatically predicting acute pulmonary embolism in-hospital patients**  
Ji-Eun Park (Suwon-si, Republic of Korea), Sangchul Hahn, Young Sam Kim, Hyun Ah Lee, Ji Won Park, Kyung Soo Chung

**PS-2 in poster area** **Session 230** **08:00 - 09:30**

**Poster session: New features and outcomes of chronic obstructive pulmonary disease**

**Disease(s)** : **Airway diseases** **Pulmonary vascular diseases** **Interstitial lung diseases** **Respiratory critical care**

**Method(s)** : Physiology General respiratory patient care Pulmonary function testing Pulmonary rehabilitation Imaging Epidemiology

**Tag(s)** : Clinical, Translational

**Chairs** : Camille Rolland-Debord (clermont-ferrand, France), Monika Franczuk (Warszawa, Poland)

- PA2256** **Tobacco-associated lung microangiopathy in symptomatic smokers without chronic obstructive pulmonary disease: A randomized, double-blinded and controlled clinical trial with Sildenafil.**  
Paulo Müller (Campo Grande (MS), Brazil), Tiago Augusto, Gisele Barbosa, Ricardo Gass, Danilo Berton, Leandro Goelzer

- PA2257** **THE IMBALANCE BETWEEN SUBPOPULATIONS OF REGULATORY T (TREG) CELLS AT DIFFERENT STAGES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)**  
Francine Maria Almeida (São Paulo (SP), Brazil), Luan Henrique Vasconcelos Alves, Juliana Tiyaki Ito A, Luana Mendonça De Oliveira, Iolanda Lopes Calvo Tibério, Rafael Stelmach, Maria Notomi Sato, Fernanda Degobbi Tenorio Quirino dos Santos Lopes

- PA2258** **Influence of lung hyperinflation on the acceleration of the aging of the oxygen transport chain in COPD patients**  
Mohamed Bougrida (Constantine, Algeria), Mahdi Martani, Mohamed Kheireddine Bourahli, Naouel Chibout, Helmi Bensaad

- PA2259** **Amount of physical activity and pulmonary rehabilitation in patients with COPD**  
Yu Liu (shanghai, China), Kai Zhang, Huaqi Guo, Cuixia Zheng

- PA2260** **Lung physiology and 129Xe MRI data driven clustering of patients with asthma and/or COPD**  
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Alberto Biancardi, Laurie Smith, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andy Swift, Dave Capener, Jody Bray, Jimmy Ball, Olly Rodgers, Demi Jakymelen, Ian Smith, Bilal Tahir, Madhwesha Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

- PA2261** **Exercise Oscillatory Breathing in patients with coexisting chronic obstructive pulmonary disease and Heart Failure**  
Cássia Goulart (São Carlos, Brazil), Rebeca Nunes Silva, Piergiuseppe Agostoni, Frits Franssen, Jonathan Myers, Ross Arena, Audrey Borghi-Silva

- PA2262** **Postural balance assessment in fallers individuals with COPD before and after physical effort**  
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaella Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho

- PA2263** **Mortality in COPD Patients – Long-term Follow-up and Outcomes**  
Roman Kalinov (Plovdiv, Bulgaria), Blagoi Marinov, Georgi Belev, Spas Kitov, Vladimir Hodzhev, Stefan Kostianev

- PA2264** **Association of testosterone with lung function in patients with chronic obstructive lung disease**  
Abir Hedhli Ep Cherni (tunis, Tunisia), Nourelhouda Khézami, Azza Slim, Hajtaeib Sonia, Khadija Echi, Sana Cheikhrouhou, Yassine Ouahchi, Sonia Toujani, Mariem Mjid, Bisma Dhahri

- PA2265** **Differences in cardiopulmonary exercise test outcomes between asthma-COPD overlap and COPD alone**  
Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Jaycie Triandafilou, Wan Tan, Jean Bourbeau, Dennis Jensen

- PA2266** **The impact of overweight on the quality of life of patients with COPD GOLD III**  
Nadiia Korzh (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Galyna Korzh, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Iryna Makoida, Olga Melnyk-Sheremeta

- PA2267** **Triaxial accelerometer-derived nighttime postural changes do not differ among smokers with and without COPD, and never smokers**  
Alessandra Adami (Kingston, United States), Jakob Melone, Robert A. Calmelat, Richard Casaburi, Harry B. Rossiter

- PA2268** **Gait differences between adults with COPD and healthy controls: systematic review and meta-analyses**  
Joren Buekers (Barcelona, Spain), Laura Delgado Ortiz, Dimitrios Megaritis, Ashley Polhemus, Nikolaos Chynkiamis, Sara C. Buttery, Sofie Breuls, Sarah Koch, Elena Gimeno-Santos, Heleen Demeyer, Nick S. Hopkinson, Ioannis Vogiatzis, Thierry Troosters, Anja Frei, Judith Garcia-Aymerich

- PA2269 Respiratory morbidity and exacerbations in patients with COPD diagnosed with the fixed ratio and the lower limit of normal**  
Aslı Görek Dilektaşlı (Bursa, Turkey), Busra Yigitliler, Nilufer Ozturk, Funda Coskun, Esra Uzaslan, Mehmet Karadag
- PA2270 Differences between interpretation strategies of lung function tests in alpha-1 antitrypsin deficiency patients**  
Diana Sofia Moreira Sousa (Santo Tirso, Portugal), Diogo Ferreira, Ricardo Lima, Raquel Marçôa, Fernanda Rodrigues, Miguel Guimarães
- PA2271 Correlation between spirometry and diaphragmatic excursions by ultrasonography in COPD patients and developing a prediction formula of FEV1**  
Jacob Baby (rochester, United Kingdom), Anjaly Chandrakumar
- PA2272 Impact of simulated obstructive apneas on sympathetic drive in COPD patients.**  
Jens Spiesshoefer (Aachen, Germany), Binaya Regmi, Faniry Ratsimba, Benedikt Jörn, Mehdi Senol, Oscar Gorol, Mustafa Elfeturi, Lukas Niekrenz, Ayham Daher, Vaughan Macefield, Michael Dreher
- PA2273 Greater Enrichment of Biological Pathways in Circulating Extracellular Vesicles of Controls than COPD Following Exercise**  
Asghar Abbasi (Torrance, United States), Elizabeth Hutchins, Bessie Meechoovet, Megan Hall, Krystine Garcia-Mansfield, April Soriano, Robert Calmelat, Carrie Ferguson, Kendall Jensen, Patrick Pirrotte, Janos Porszasz, Richard Casaburi, William Stringer, Harry Rossiter
- PA2274 Emphysema Severity Index (ESI): a novel spirometry-derived parameter in patients with COPD**  
Luca Paita (Firenze, Italy), Letizia Dal Bosco, Greta Insalata, Matteo Paoletti, Mariaelena Occhipinti, Gianna Camiciottoli, Massimo Pistolesi, Federico Lavorini
- PA2275 Assessment of five-year emphysema progression in the COPDGene study by Emphysema Severity Index (ESI), a novel spirometry-derived parameter**  
Massimo Pistolesi (Firenze (FI), Italy), Matteo Paoletti, Mariaelena Occhipinti, Federico Lavorini, Elizabeth A Regan, David A Lynch, Edwin K Silverman, James D Crapo

PS-20 in poster area

Session 231

08:00 - 09:30

Poster session: Deep learning, new technologies and biomarkers in imaging

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Pulmonary vascular diseases](#)

Method(s) : Imaging Pulmonary function testing Epidemiology

Tag(s) : Translational

Chairs : Chair to be confirmed

- PA2276 Deep learning enables non-invasive estimation of mean pulmonary arterial pressure from PREFUL-MRI**  
Maximilian Zubke (Hannover, Germany), Marius Wernz, Till F Kaireit, Tawfik Moher Alsady, Andreas Voskrebenez, Robin A Mueller, Karen M Olsson, Frank Wacker, Marius M Hoepfer, Jens Vogel-Claussen
- PA2277 Correlation between ventilation heterogeneity and virtual scintigraphy through Functional Respiratory Imaging (FRI)**  
Hosein Sadafi (Kontich, Belgium), Maarten Lanclus, navid Monshi Tousi, Stijn Bonte, Jan De Backer
- PA2278 CT-based assessment of alveolar collapse using attenuation histograms in inspiration and expiration: Evaluation as a prognostic imaging marker in IPF patients**  
Sarah Scharm (Hannover, Germany), Cornelia Schaefer-Prokop, Anton Schreuder, Jonathan Ehmig, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Oh Shin
- PA2279 PCD-AID: artificial intelligence diagnosis of primary ciliary dyskinesia**  
Mathieu Bottier (London, United Kingdom), Andreia Lucia Do Nascimento Pinto, Britt J Van Akker, Oliver Hamilton, Ioannis Katramados, Amelia Shoemark, Claire Hogg, Thomas Burgoyne
- PA2280 Increased volume of pulmonary veins on CT associates independently with higher mortality in smokers with and without COPD**  
Tjeerd van der Veer (Amsterdam, Netherlands), Anastasia Kimberley Ay-Lan Kwee, Leticia Gallardo Estrella, Elrozy R. Andrinopoulou, Jean Paul Charbonnier, Stephen M. Humphries, Pim A. De Jong, David A. Lynch, Harm A. W. M. Tiddens, Esther Pompe
- PA2281 Dynamic chest radiography evaluation of the effects of tiotropium/olodaterol combination therapy in COPD: EMBODY study protocol**  
Jun Ikari (Chiba, Japan), Megumi Katsumata, Takuro Imamoto, Yuri Suzuki, Akira Nishiyama, Hajime Yokota, Yoshihito Ozawa, Eiko Suzuki, Naoko Kawata, Seiichiro Sakao, Koichiro Tatsumi, Takuji Suzuki

- PA2282** **The comparison of quantitative CT features of COPD and pre-COPD: results from a real-life study**  
Selin Ercan (Gothenburg, Sweden), Aylin Ozgen Alpaydin, Ali Canturk, Emre Ruhat Avci, Saliha Selin Ozuygur Ermis, Gozde Tokatli, Gökçen Ömeroglu Simsek, Pinar Balci, Naciye Sinem Gezer
- PA2283** **Multisite implementation of 129Xe-MRI assessment of COPD disease progression: XeCITE early results**  
Alexandre Coimbra (South San Francisco, United States), Laura C. Bell, Yixuan Zou, Colin Dimond, Jaime Mata, John Muglar, Yun Michael Shim, David Mummy, Bastiaan Driehuys, Yuh-Chin Huang, Peter Niedbalski, Mario Castro, Yonni Friedlander, Norm Konyer, Sarah Svenningsen, Parameswaran Nair, Terence Ho, Andrew Hahn, Sean Fain, Eric A. Hoffman, Guilhem J. Collier, Jim M. Wild, Robert Thormen, Talissa Altes, Paula Belloni
- PA2284** **CT-quantified pulmonary artery volume associates independently with higher mortality in smokers with and without COPD**  
Tjeerd van der Veer (Amsterdam, Netherlands), Anastasia Kimberley Ay-Lan Kwee, Leticia Gallardo Estrella, Elrozy R. Andrinopoulou, Jean Paul Charbonnier, Stephen M. Humphries, Pim A. De Jong, David A. Lynch, Harm A. W. M. Tiddens, Esther Pompe
- PA2285** **Quantitative computed tomography assessment of pulmonary structure in cannabis smokers**  
sukhraj virdee (georgetown, Canada), James Hogg, Jean Boudreau, Wan Tan, Miranda Kirby
- PA2286** **Can tracheobronchial tree and luminal descriptors be used as objective imaging biomarkers in COPD?**  
Rodrigo Nava (Cambridge, United Kingdom), François-Xavier Blé, Cosma Mirella Spalluto, Karl Staples, Tom Wilkinson, Kristoffer Ostridge
- PA2287** **Computational fluid dynamics analysis of computed tomography images in asthma**  
So Ri Kim (Jeonju, Republic of Korea), Nguyen Quoc Hung, Kum Ju Chae, Gong Yong Jin, Sanghun Choi
- PA2288** **Machine learning applied to chest x-rays to support the diagnosis of pulmonary tuberculosis**  
Marcelo Fouad Rabahi (Goiânia (GO), Brazil), Poliana Parreira, Afonso Fonseca, Fabrizio Soares, Marcus Barreto Conte
- PA2289** **Effect of benralizumab on small airway dysfunction using functional respiratory imaging in patients with severe eosinophilic asthma**  
Lennart Conemans (Maastricht, Netherlands), Mieke Crutsen, Wendel Dierckx, Sami Simons, Martijn Spruit, Bitu Hajian
- PA2290** **Imaging of human airways by endoscope-compatible dynamic microscopic optical coherence tomography**  
Mario Pieper (Lübeck, Germany), Cornelia Holzhausen, Hinnerk Schulz-Hildebrandt, Martin Ahrens, Klaus Rabe, Heike Biller, Mustafa Abdo, David Ellebrecht, Sönke Von Weihe, Christoph Fraune, Stefan Steurer, Gereon Hüttmann, Peter König
- PA2291** **Use of dynamic chest radiographic measurements to estimate total lung capacity in patients with respiratory disease**  
Fred Fyles (Liverpool, United Kingdom), Ryan Robinson, Thomas Fitzmaurice, Rachel Burton, Amy Nuttall, Ram Bedi, Hassan Burhan
- PA2292** **Differentiating diffuse cystic lung disease and emphysema cases from normal using Artificial Intelligence**  
Ronan Hearne (Dublin, Ireland), Katie Noonan, Brian Gaffney, Brian Sheehy, Niall Mcveigh, Yasuhito Sekimoto, Ali Ataya, Nishant Gupta, Francis McCormack, Raphaël Borie, Francesco Bonella, David Murphy, Kathleen Curran, Cormac Mccarthy
- PA2293** **Utilising computer vision artificial intelligence to identify defects in airway ciliary motility and mucociliary clearance**  
Mathieu Bottier (London, United Kingdom), Andreia Lucia Do Nascimento Pinto, Emily Howieson, Britt J Van Akker, Oliver Hamilton, Ioannis Katramados, Jane Davies, Amelia Shoemark, Claire Hogg, Thomas Burgoyne
- PA2294** **Bioradiomic SPECT-CT quantification of active lung inflammation is influenced by heterogeneity of lung tissue**  
Benjamin Welham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavamwe, Francis Sundram, Tom Wilkinson
- PA2295** **Using CT to detect large airway collapse in severe asthma: worth the extra effort?**  
Wei Ling Chia (London, United Kingdom), James Hull, Emily Bartlett, Sujal Desai, David Watchorn

PS-3 in poster area

Session 232

08:00 - 09:30

Poster session: COVID-19

Disease(s) : [Interstitial lung diseases](#) [Respiratory critical care](#) [Pulmonary vascular diseases](#)Method(s) : [Respiratory intensive care](#) [Epidemiology](#) [General respiratory patient care](#) [Pulmonary function testing](#) [Endoscopy and interventional pulmonology](#) [Imaging](#)Tag(s) : [Clinical](#)

Chairs : Ana Cysneiros (Lisboa, Portugal), Jacobo Sellares Torres (Barcelona, Spain)

- PA2296** **Neurofilament light in predicting clinical outcomes in critically ill COVID-19 patients.**  
Patrick Smeele (Amsterdam, Netherlands)



- PA2297 Phenotyping of Pulmonary Oedema in COVID-19 ARDS**  
Job Schippers (Amsterdam, Netherlands), Leila Atmowihardjo, Lieuwe Bos, Harm Jan Bogaard, Jurjan Aman
- 
- PA2298 ROX index on 3rd day as a best predictor of treatment failure in severe COVID-19 patients**  
Luca Novelli (Bergamo, Italy), Stefano Centanni, Fabrizio Luppi, Stefano Aliberti, Paola Rogliani, Claudio Micheletto, Marco Contoli, Alessandro Sanduzzi Zamparelli, Federico Raimondi, Simone Pappacena, Luca Malandrino, Giorgio Lorini, Greta Carioli, Fabiano Di Marco
- 
- PA2299 Prognostic value of respiratory compliance course on mortality in COVID-19 patients with veno-venous ECMO**  
Simon Valentin (Nancy, France), Mathieu Amalric, Guillaume Granier, Benjamin Pequignot, Christophe Guervilly, Kevin Duarte, Nicolas Girerd, Bruno Levy, Paul Dunand, Matthieu Koszutski, Hadrien Roze, Antoine Kimmoun
- 
- PA2300 Impact of the COVID-19 Epidemic on Healthcare Utilization and Death Among Critically Ill Patients**  
Hye Jin Jang (Seoul, Republic of Korea), Soyul Han, Sungho Won, Bora Lee, Young Sam Kim
- 
- PA2301 Previous physical activity level and the functional and physical performance at ICU discharge in COVID-19 patients: an observational study**  
Carolina Fu (São Paulo (SP), Brazil), Danilo Prereira Dos Santos, Leda Tomiko Yamada Da Silveira, Heloisa Francelin, Debora Stripari Schujmann Nogueira
- 
- PA2302 Aging predictive factors for oxygenation response and mortality in COVID-19 and acute respiratory distress syndrome (ARDS) patients exposed to prone position: A multicenter cohort study**  
Marieta Cabral Amaral Cunha (São Paulo, Brazil), Adriana C Lunardi, Jociane Schardong, Natiele C Righi, Guadalupe N Sant'Anna, Larissa P Isensee, Rafaela F Xavier, Jose E Pompeu, Ranata M Weigert, Darlan L Matte, Rozana A Cardoso, Ana C V Abras, Antonio M V Silva, Camila C Dorneles, Roberta W Werle, Ana C Starke, Rodrigo D M Plentz, Juliana C Ferreira, Celso R F Carvalho
- 
- PA2303 Impact of COVID 19 and MRAB infection on mortality in ICU**  
Bogun kho (Gwangju, Republic of Korea), Hong-Joon Shin
- 
- PA2304 The Influence of respiratory mechanics on the outcome of hospitalization of obese patients admitted to the Covid-19 ICU**  
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Larissa Perossi, Jéssica Perossi, Daniele Oliveira Dos Santos, Anibal Basile Filho
- 
- PA2305 Comparison of pulse versus conventional steroid treatment for hospitalized COVID-19 patients**  
Paolo Cameli (Siena (SI), Italy), Tommaso Pianigiani, Marco Guerrieri, Valerio Alonzi, Gaia Fabbri, Elena Pordon, Maddalena Messina, Vittoria Ventura, Sara Croce, Martina Meocci, Beatrice Perea, Felice Perillo, Fabrizio Mezzasalma, Behar Cekorja, Elena Bargagli
- 
- PA2306 Determining influences on ventilatory decision-making in COVID-19 ARDS**  
Kenki Matsumoto (London, United Kingdom), Hannah Malcolm, William Thomson, Magda Osman, Zudin Puthuchery, John Prowle, Timothy Stephens
- 
- PA2307 The utility of lung ultrasound in COVID-19 pneumonia in the intensive care unit in real life settings.**  
Dimitrios Toumpanakis (Athens, Greece), Anna Kyriakoudi, Evangelia Akoumianaki, Eleni Apostolakou, Iliana Ioannidou, Evangelos Kaimakamis, Evangelos Kaniaris, Paschalina Kontou, Magdalini Kyriakopoulou, Efstathia Potamianou, Charalambos Psarologakis, Vasiliki Soulountsi, Nektaria Xirouchaki, Antonia Koutsoukou, Konstantinos Pontikis
- 
- PA2308 Awake prone position in COVID-19 patients: a report of experience in a medical ICU**  
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Yosri Ben Ali, Imen Mighri, Nadine Boukadida, Arij Hammedi, Rahma Ben Jazia, Anis Maatallah, Jihene Ayachi
- 
- PA2309 Role of JAK-inhibitors in management of Long COVID-19 syndrome: A Case-Control Study.**  
Lokesh Kumar Lalwani (Alwar, India), Pawan Kumar Singh, Vinod Sharma, Dhruva Chaudhry
- 
- PA2310 PaO<sub>2</sub>/FiO<sub>2</sub> ratio measured on room air or during supplemental oxygen predicts 28-day mortality in Covid-19 pneumonia: a large multicenter retrospective study.**  
Angela Tramontano (Maddaloni, Italy), Maria Luisa Nicolardi, Paola Scarano, Annalisa Boscolo, Roberto Dongilli, Domenico Luca Grieco, Lara Pisani, Tommaso Tonetti, Paolo Palange
- 
- PA2311 In Taiwan increasing ARDS Severity by Berlin Definition Reflects Overall Illness Severity.**  
Chang Yujen (Taichung City, Taiwan)
- 
- PA2312 ICU admission for COVID-19 patients: is it safe?**  
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Yosri Ben Ali, Sourour Bel Haj Youssef, Azer Yaacoub, Ines Sebri, Rahma Ben Jazia, Anis Maatallah, Jihene Ayachi
- 
- PA2313 Clinical course and outcome of the COVID 19 infection between vaccinated and unvaccinated patients admitted to the Intensive Care Unit**  
Pavel Yordanov (Varna, Bulgaria), Figen Mustafa, Pavlina Peneva, Anton Antonov, Petur Georgiev, Valentina Dimitrova

**PA2314** **Changes in patient profile with COVID19 admitted to IRCU**  
Pau Cruzado Boix (Castelldefels, Spain), Cristina Bellver Asperilla, Yolanda Ruiz Albert, Ester Cuevas Sales, Ana Córdoba Izquierdo, Salud Santos Pérez, Mercè Gasa Galmes

**PA2315** **Risk factors and effect on mortality of superinfections in a newly established COVID-19 respiratory sub-intensive care unit at University Hospital in Rome**  
ALESSANDRA IACOVELLI (Bellegra, Italy), Alessandra Oliva, Guido Siccardi, Angela Tramontano, Daniela Pellegrino, Angelo Petroianni, Claudio Maria Mastroianni, Mario Venditti, Paolo Palange

**PS-4 in poster area** **Session 233** **08:00 - 09:30**

**Poster session: New mechanistic insights into acute and chronic epithelial lung disorders**

**Disease(s)** : Respiratory critical care Airway diseases

**Method(s)** : Cell and molecular biology Epidemiology General respiratory patient care Physiology Respiratory intensive care

**Tag(s)** : Translational

**Chairs** : Abilash Ravi (Leiden, Netherlands), Nicole van der Burg (Lund, Sweden)

**PA2316** **miR-155 and miR-221 expression in serum exosomes of Iranian moderate-severe asthmatic patients**  
Esmacil Mortaz (Tehran, Islamic Republic of Iran), Neda Dezfuli, Atefeh Fakharian, Ian Adcock

**PA2317** **The link between the Gln27Glu polymorphism of the  $\beta$ 2-adrenoceptor gene and the severity of the asthma course**  
Vladyslava Kachkovska (Sumy, Ukraine), Anna Kovchun, Lyudmyla Prystupa

**PA2318** **The X and Y of inflammation, fibrosis and cell death in asthma**  
Karosham Reddy (Glebe, Australia), Karosham Reddy, Dikaia Xenaki, Senani Rathanyake, Sobia Idrees, Fia Boedijono, Markus Weckmann, Matthew Padula, Maarten Van Den Berge, Alen Faiz, Brian Oliver

**PA2319** **Differential miRNA expression could identify responders to biologic therapy in severe uncontrolled asthma**  
Amanda Iglesias Coma (Palma, Spain), Hanaa Shafiek, Josep Muncunill, Arne Fleischer, Josep Luis Valera, Meritxell López, Rocío Martínez, Aina Martin, Laura Canaves, Lluc Riera, Mar Mosteiro, Inés Escribano, Luis Pérez De Llano, Borja G Cosío

**PA2320** **MEG3 SNP variants are associated with the risk of asthma**  
Kuo-Liang Chiu (Taichung, Taiwan), Wen-Shin Chang, Chia-Wen Tsai, Mei-Chin Mong, Te-Chun Hsia, Da-Tian Bau

**PA2321** **IL18 as a severity locus for COVID-19**  
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Diego Ferrer, María Sebastián Mora-Gil, Pilar Alonso-Lecue, Sandra Tello-Mena, Beatriz Abascal-Bolado, Sheila Izquierdo, Juan Jose Ruiz-Cubillan, Carlos Armiñanzas, Ricardo Blanco, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

**PA2322** **Evaluation of TGF- $\beta$  isoforms based on selected clinical parameters in asthmatic patients.**  
Marcelina Koćwin (Lodz, Poland), Mateusz Jonakowski, Alicja Majos, Janusz Szemraj, Piotr Kuna, Michał Panek

**PA2323** **T-cell immune dysfunction of severe COVID-19 in asthma defined by single-cell RNA sequencing**  
Youlim Kim (Seoul, Republic of Korea), Mira Cho, Hyun Lee, Sang Hoon Lee, Siyoung Lee, Minjun Choi, Byeongchan Lee, Seong Yong Lim, Kwang Ha Yoo

**PA2324** **MicroRNA-197-3p attenuates house dust mite-induced inflammation by targeting NDP52 mitophagy receptor and Interleukin 13 in human bronchial epithelial cells**  
Vahid Arabkari (SE-405 30, Sweden), Lina Rönnebjerg, Madeleine Rådinger

**PA2325** **Transcriptomic characterization of type 2 innate lymphoid cells from asthma patients in response to prostaglandin D2 metabolites**  
Christina Gress (Hannover, Germany), Jens M. Hohlfeld, Meike Müller

**PA2326** **A plasma microRNA panel strengthens the early prediction of ICU mortality: A multicenter COVID-19 study**  
Manel Perez-Pons (Lleida, Spain), Ivan D Benítez, Marta Molinero, Nadia García-Mateo, Alicia Ortega, Tamara Postigo, María C. García-Hidalgo, Thalía Belmonte, Carlos Rodríguez-Muñoz, Jessica González, Gerard Torres, Clara Gort-Paniello, Anna Moncusí-Moix, Angel Estella, Luis Tamayo Lomas, Amalia Martínez De La Gándara, Lorenzo Socias, Yhivian Peñasco, María Del Carmen De La Torre, Elena Bustamante-Munguira, Elena Gallego Curto, Ignacio Martínez Varela, María Cruz Martín Delgado, Pablo Vidal-Cortés, Juan López Messa, Felipe Pérez-García, Jesus Caballero, José M. Añón, Ana Loza-Vázquez, Nieves Carbonell, Judith Marin-Corral, Ruth Noemí Jorge García, Carmen Barberà, Adrián Ceccato, Laia Fernández-Barat, Ricard Ferrer, Dario Garcia-Gasulla, Jose Angel Lorente-Balanza, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Jesús F. Bermejo-Martin, Antoni Torres, Ferran Barbé, David De Gonzalo-Calvo

**PA2327** **LSC - 2023 - "Clinical and immunological phenotypes" in 'Long COVID': The tsunami of multisystem syndrome of this decade!**  
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Patil, Sham Toshniwal, Gajanan Gondhali, Rajesh Patil, Abhijit Acharya, Deepak Patil

- PA2328** **Serum and sputum proteomic biomarkers of eosinophilic and neutrophilic asthma phenotypes**  
Khezia Asamoah (London, United Kingdom), Kian Fan Chung, Nazanin Zounemat Kermani, Pankaj Bhavsar, Barbara Bodinier, Ian Adcock, Dragana Vuckovic, Marc Chadeau Hyam
- PA2329** **Role of CD39 in COVID-19 severity: dysregulation of purinergic signaling and thromboinflammation**  
Elena Díaz García (Madrid, Spain), Sara García-Tovar, Enrique Alfaro Garcia, Ester Zamarrón, Alberto Mangas, Raúl Galera, José Juan Ruiz-Hernández, Jordi Solé-Violán, Carlos Rodríguez-Gallego, Ana Van-Den-Rym, Rebeca Pérez-De-Diego, Kapil Nanwani-Nanwani, Eduardo López-Collazo, Francisco García-Río, Carolina Cubillos-Zapata
- PA2330** **The influence of rs1799752 ACE indel variant and serum ACE enzyme activity in patients with severe COVID-19 and post-COVID-19**  
Ingrid Fricke-Galindo (Mexico City, Mexico), Ivette Buendía-Roldán, Daniel I Ponce-Aguilar, Gloria Pérez-Rubio, Leslie Chávez-Galán, Rafael De Jesús Hernández-Zenteno, Ramcés Falfán-Valencia
- PA2331** **Endothelial progenitors exhibit a senescent and prothrombotic phenotype post COVID-19 disease**  
Koralia Paschalaki (London, United Kingdom), Daisy Gresham, Anand Shah, Peter Kelleher, Anna Reed, Aran Singanayagam, Vassilis Gorgoulis, Peter J. Barnes, Anna Randi, Charis Pericleous, Peter George
- PA2332** **IFNL4 ss469415590 variant is associated with the course of COVID-19 among children**  
Tetiana Harashchenko (Kyiv, Ukraine), Tetiana Umanets, Volodymyr Lapshyn, Tetiana Kaminska, Ludmila Livshits, Yuriy Antipkin
- PA2333** **Immune dysregulation, Th1/Th2 switch failure and Rheumatological predisposition after COVID-19: Certainty and Reality!!**  
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Abhijit Acharya, Gajanan Gondhali, Rajesh Patil, Shubhangi Khule, Deepak Patil
- PA2334** **Interspecies analysis to dissect transcriptomic signatures of humans and hamsters in COVID-19.**  
Peter Pennitz (Berlin, Germany), Vincent D. Friedrich, Emanuel Wyler, Julia M. Adler, Dylan Postmus, Sandro Andreotti, Luiz Gustavo Teixeira Alves, Julia Kazmierski, Fabian Pott, Thomas Hoefler, Cengiz Goekeri, Markus Landthaler, Christine Goffinet, Jakob Trimpert, Markus Scholz, Martin Witzernath, Holger Kirsten, Geraldine Nouailles
- PA2335** **Understanding the extracellular immunoproteasome in ARDS**  
Michael C. McKelvey (Cullybackey, United Kingdom), Chloe M. Mckee, Thea Mawhinney, Rebecca C. Coll, Cecilia M. O'Kane, Daniel F. Mcauley, Sinead Weldon, Clifford C. Taggart

## PS-5 in poster area

## Session 234

08:00 - 09:30

## Poster session: Precision medicine and novel biomarkers in lung disease

Disease(s) : **Airway diseases** **Thoracic oncology** **Interstitial lung diseases**

Method(s) : Cell and molecular biology Physiology Public health General respiratory patient care

Tag(s) : Translational

Chairs : Janine Gote-Schniering (Bern, Switzerland), Maarten van den Berge (Groningen, Netherlands)

- PA2336** **Epithelial to mesenchymal transition (EMT) changes in patients with non-small cell lung cancer (NSCLC)**  
Wenyng Lu (Newnham, Australia), Collin Chia, Josie Larby, Greg Haug, Ashutosh Hardikar, Gurpreet Kaur Singhera, Tillie L. Hackett, Iain Robertson, Mathew Suji Eapen, Sukhwinder Singh Sohal
- PA2337** **Proteomic analysis in idiopathic pulmonary fibrosis with presence of anti-modified protein antibodies**  
Dimitrios Kalafatis (Stockholm, Sweden), Vijay Joshua, Monika Hansson, Linda Mathsson-Alm, Linda Elowsson, Gunilla Westergren-Thorsson, Aase Hensvold, Magnus Sköld
- PA2338** **Comparison of extracellular vesicle-associated tissue factor between acute exacerbators and stable patients with chronic obstructive pulmonary disease**  
Miriam De Francesco (Pisa, Italy), Roberta Gaeta, Camilla Morani, Mariapia Niceforo, Marta Daniele, Erica Bazzan, Mariella De Santis, Marianna Minniti, Alessandro Congedo, Ilaria Berardi, Alberto Papi, Alessandro Celi, Tommaso Neri, Dario Neri
- PA2339** **Usefulness of RE-LYMP and AS-LYMP parameter in diagnosis of COVID-19 and sarcoidosis patients.**  
Elżbieta Rutkowska (Warsaw, Poland), Agata Raniszewska, Iwona Kwiecień, Karina Jahnz- Rózyk, Piotr Rzepecki, Andrzej Chciałowski
- PA2340** **Olfactomedin-4 correlates with sputum neutrophil protease activity and clinical markers of active inflammation in adult bronchiectasis: Data from the EMBARC-BRIDGE study**  
Emma Johnson (Paisley (Renfrewshire), United Kingdom), Megan Crichton, Holly R Keir, Merete Long, Morven Shuttleworth, Erin Cant, Miguel Barbosa, Anthony De Soyza, Katerina Dimakou, Michal Shteinberg, Arietta Spinou, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhar, Charles Haworth, Josje Altenburg, Francesco Blasi, Tobias Welte, Oriol Sibia, Stefano Aliberti, Amelia Shoemark, James D Chalmers

- PA2341 Assessment of humoral immune function in chronic obstructive pulmonary disease (COPD) patients**  
Zil Patel (Ottawa, Canada), Shawn Aaron, Vanessa Luks, William Cameron, Sunita Mulpuru, Juthaporn Cowan
- 
- PA2342 Proteinase 3 as a marker of clinical severity in bronchiectasis: Data from the EMBARC-BRIDGE study**  
Emma Johnson (Paisley (Renfrewshire), United Kingdom), Megan L Crichton, Holly R Keir, Merete Long, Morven Shuttleworth, Erin Cant, Anthony De Soya, Katerina Dimakou, Michal Shteinberg, Arietta Spinou, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhar, Charles Haworth, Josje Altenburg, Francesco Blasi, Tobias Welte, Oriol Siblia, Stefano Aliberti, Amelia Shoemark, James D Chalmers
- 
- PA2343 Sphingolipids contribute to sex-specific differences in COPD pathologies**  
Elisabetta Granato (Naples, Italy), Ida Cerqua, Giuseppina Rea, Fiorentina Roviezzo, Francesca Polverino
- 
- PA2344 Plasma inflammatory proteins and transcriptome profiles of neutrophils in COPD patients with PiMM and PiZZ alpha1-antitrypsin treated or non-treated with augmentation therapy**  
Urszula Lechowicz (Warsaw, Poland), Aneta Zdral, Adriana Rozy, Adam Szczechcinski, Beatriz Martinez-Delgado, Beata Olejnicka, Sabina Janciauskiene, Joanna Chorostowska-Wynimko
- 
- PA2345 Collagen Remodelling in COPD: A new paradigm**  
Alex Chia Wei Kong (SOUTHAMPTON (Hampshire), United Kingdom), Tom Havelock, Cosma Mirella Spalluto, Ashley Heinson, Graham Belfield, Maria Belvisi, Damla Etal, Daniel Muthas, Lisa Oberg, Adam Platt, Karl Staples, Kristoffer Ostridge, Tom Wilkinson
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- PA2346 TGF- $\beta$ 1, pSmad-2/3, Smad-7, and  $\beta$ -catenin are augmented in IPF pulmonary arteries: potential role in driving endothelial to mesenchymal transition (EndMT)**  
Wenyng Lu (Newnham, Australia), Archana Vijay Gaikwad, Collin Chia, Josie Larby, Greg Haug, Surajit Dey, Prem Bhattarai, Jade Jaffar, Glen Westall, Gurpreet Kaur Singhera, Tillie L. Hackett, Mathew Suji Eapen, Sukhwinder Singh Sohal
- 
- PA2347 Biomarkers of autoimmune processes in COPD.**  
Gulchekhra Tashmetova (Tashkent, Uzbekistan), Irina Liverko
- 
- PA2348 Characterization of the immunophenotype of circulating neutrophils in bronchiectasis**  
Evangelia Koukaki (SALAMINA, Greece), Efthymia Theofani, Nikolaos Paschalidis, Georgina Xanthou, Nikoletta Rovina
- 
- PA2349 The association of the expression of programmed cell death ligand 1 (PD-L1) in dendritic cells (DCs) and its subtypes with chronic obstructive pulmonary disease (COPD) phenotypes**  
Kuan-Yuan Chen (New Taipei City, Taiwan), Kang-Yun Lee, Po-Hao Feng
- 
- PA2351 Piezo expression and function in airway smooth muscle in chronic obstructive pulmonary disease.**  
Nataliya Migulina (Groningen, Netherlands), Theo Borghuis, Ben Roos, Wim Timens, Christina Pabelick, Corry-Anke Brandsma, Janette Burgess, Y.S. Prakash
- 
- PA2352 Distinct Lung miRNAs Are Associated with the Control of Cell Proliferation in NSCLC and COPD**  
Renata Esposito (Caserta, Italy), Davida Mirra, Giuseppe Spaziano, Francesca Polverino, Bruno D'Agostino
- 
- PA2353 Comprehensive analysis of bronchoalveolar lavage fluid by validating ELISA and MSD systems for 22 biomarkers**  
Saskia Carstensen (Hannover, Germany), Jens M. Hohlfeld, Meike Müller
- 
- PA2354 Extensive biomarker analysis in a European cohort study of patients suffering from COVID-19: a perspective from the DRAGON consortium**  
Julien Guiot (Liège, Belgium), Marie Ernst, Nathalie Maes, Monique Henket, Anna Peired, Benoit Ernst, Sara Tomassetti, Etienne Cavalier
- 
- PA2355 A plasma biomarker of neutrophilic activity correlates with COPD severity**  
Mugdha M. Joglekar (Groningen, Netherlands), Jannie M. B. Sand, Diana J. Leeming, Frank Klont, Russell P. Bowler, Barbro N. Melgert, Simon D. Pouwels, Janette K. Burgess

## PS-6 in poster area

## Session 235

08:00 - 09:30

## Poster session: Translational approaches in fibrotic lung diseases: from bench to bedside

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#)

Method(s) : Cell and molecular biology Imaging Physiology

Tag(s) : Translational

Chairs : Isis Enlil Fernandez (München, Germany), Carlos Esteban Machahua Huamani (Bern, Switzerland)

- PA2356 Effect of the HDACs inhibitor, Panobinostat, in a rat model of pulmonary fibrosis**  
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Francesca Ruscitti, Silvia Pontis, Maria Gloria Pittelli, Giancarlo Aquino, Roberta Volta, Barbara Pioselli, Maria Laura Faietti, Maurizio Civelli, Marcello Trevisani

- PA2357 Resolvin E3 inhibits phosphorylation of p38 MAPK signaling pathway leading to the reduction of TGF- $\beta$ 1 production on macrophage**  
Masakiyo Yatomi (Maebashi, Japan), Yasuhiko Koga, Haruka-Aoki Saito, Makiko Sato, Yosuke Miura, Hiroaki Tsurumaki, Noriaki Sunaga, Toshitaka Maeno, Satoshi Shuto, Takeshi Hisada
- PA2358 Effects of macrophage transplantation in bleomycin-induced pulmonary fibrosis in mice**  
Eiko Suzuki (Chiba, Japan), Jun Ikari, Megumi Katsumata, Masaki Suzuki, Ayako Shimada, Nozomi Tanaka, Keiko Yamamoto, Ayumi Sekine, Yoshitoshi Kasuya, Koichiro Tatsumi, Takuji Suzuki
- PA2359 Succinate aggravates pulmonary fibrosis through the succinate/SUCNR1 axis.**  
Rishi Rajesh (Graz, Austria), Reham Atallah, Ilse Lanz, Wolfgang Platzer, Stefano Angiari, Leigh Marsh, Thomas Bärnthaler, Akos Heinemann
- PA2360 Lower proportion of collagen type XIV in lung tissue of patients with Idiopathic Pulmonary Fibrosis (IPF)**  
Mehmet Nizamoglu (Groningen (GR), Netherlands), Maunick Lefin Koloko Ngassie, Rhode A. Meuleman, Martin Banchero, Theo Borghuis, Wim Timens, Martijn C. Nawijn, Barbro N. Melgert, Irene H. Heijink, Corry-Anke Brandsma, Janette K. Burgess
- PA2361 Real-life experience using nintedanib as a reference item in a preclinical rat model of bleomycin-induced fibrosis**  
Pan Filis (Edinburgh, United Kingdom), Angela Marsden, Susan Sammels, James Baily, Mary McElroy
- PA2362 Dexamethasone restores TNF $\alpha$ -induced epithelial barrier dysfunction in primary rat alveolar epithelial cells**  
Naokata Kutsuzawa (Isehara, Japan), Yoko Ito, Shizuko Kagawa, Hiroto Takiguchi, Koichiro Asano
- PA2363 Extracellular vesicles regulate fibroblasts to myofibroblasts transition in chronic lung diseases**  
xu bai (sydney, Australia), Hui Chen, Brian Oliver
- PA2364 Sigma-1 receptor agonist mitigates bleomycin-induced pulmonary fibrosis in mice**  
Adam Hosszu (Budapest, Hungary), Dora Bianka Balogh, Akos Roland Toth, Kata Cseko, Judit Hodrea, Zsuzsanna Helyes, Attila J. Szabo, Andrea Fekete
- PA2365 Late Breaking Abstract - GTX-011 alleviates inflammatory, cardiovascular and pulmonary dysfunction in a rat model of bleomycin-induced pulmonary fibrosis.**  
Eugenia Ruiz-Canovas (Barcelona, Spain), Javier Milara, Paula Montero, Inés Roger, Consol Farrera, Cristina Fernández-Asensio, Silvia Sánchez-Díez, Julio Cortijo
- PA2366 Inter-alveolar pores and association with (pre-)COPD stage and small airways**  
Stijn Verleden (Wilrijk, Belgium), Cindy Mai, Annemiek Snoeckx, Annelies Janssens, Senada Koljenovic, Paul Van Schil, Veronique Verplancke, Johanna Kwakkel-Van-Erp, Hanne Voet, Therese Lapperre, Jeroen Hendriks
- PA2367 Late Breaking Abstract - Calcaratarin D, a labdane diterpenoid, attenuates TGF- $\beta$ 1-induced airway epithelial -mesenchymal transition and lung fibroblast activation**  
Wupeng Liao (Singapore, Singapore), Winnie Teo, W.S. Fred Wong
- PA2368 Late Breaking Abstract - Investigation of cKIT driven bone marrow toxicity and translation to human**  
Marie Larsson (Molndal, Sweden), Sonja Gill, Carmen Pin, Fiona Pachel, Kainat Khan, James Cartwright, Ruth Macdonald, Jonathan Rose, Benjamin Clayton, Emilyanne Leonard, Jorrit Hornberg, Anna Ollerstam, Carrie Larner
- PA2369 Role of apoptosis signal-regulating kinase-1 (ASK1) in the development of pulmonary fibrosis**  
Martina Korfei (Gießen, Germany), Julie Antoine, Azam Mohammadi, Stefan Hadzic, Ingrid Henneke, Poornima Mahavadi, Ekaterina Krauss, Clemens Ruppert, Werner Seeger, Andreas Guenther
- PA2370 Loss of cofilin 1 in the airway epithelium of COPD causes mitochondrial dysfunction**  
Venkataramana Sidhaye (Baltimore, United States), Baishakhi Ghosh, Bonnie Yeung-Luk, Vaishnavi Karanam, Shreeti Thapa
- PA2371 Elastase inhibitory activity (EIA) in Chronic Obstructive Pulmonary Disease (COPD) and Alpha-1 Antitrypsin Deficiency (AATD)**  
Georgina Farago (Barcelona, Spain), Gerard Orriols, Alexa Núñez, Cristina Esquinas, Galo Granados, Pablo Gabriel-Medina, Cristina Aljama, Miriam Barrecheguren, Francisco Rodriguez-Frías, Marc Miravittles
- PA2372 Targeting lung fibroblast senescence to restore ECM regulation in COPD**  
Roy R. Woldhuis (Groningen, Netherlands), Maarten Van Den Berge, Wierd Kooistra, Wim Timens, Corry-Anke Brandsma
- PA2373 The role of prostaglandin E2 (PGE2) on fibroblast - extracellular matrix (ECM) interaction in idiopathic pulmonary fibrosis (IPF): A pilot study**  
David Shitrit (Kfar Saba, Israel), Noa Moskovitz, Gali Epstein Shochet, Hadas Gilboa

**Disease(s) :** Airway diseases**Method(s) :** General respiratory patient care Pulmonary function testing Public health Epidemiology**Tag(s) :** Clinical**Chairs :** Omar S. Usmani (London, United Kingdom), Dimitrios Toumpanakis (Athens, Greece)

PA2374	<b>Impact of extrafine formulation single-inhaler triple therapy on health-related quality of life after three months of treatment in patients with asthma: the TriMaximize study</b> Andreas Rembert Koczulla (Schönau am Königssee, Germany), Berkta Akyildiz, Charlotte Suppli Ulrik, Detlef Nachtigall, Richard Russell, Valentina Bogoevska, Wolfgang Pohl, Tanja Borucki, Maurice-Dominique Martini, Christian Gessner
PA2375	<b>TRITRIAL study - TRIPLE Therapy in Real life: Impact on Adherence and Health status in COPD patients in Italy.</b> Alessio Piraino (Roma (RM), Italy), Luca Richeldi, Pietro Schino, Elena Bargagli, Alberto Ricci, Alberto Rocca, Francesca Marchesani, Alfio Pennisi, Gianna Camiciottoli, Mariella D'Amato, Francesco Macagno, Ulrica Scaffidi Argentina, Elena Garavelli, Eleonora Ingrassia
PA2376	<b>Change in treatment adherence after three months of treatment with extrafine formulation single-inhaler triple therapy in patients with asthma: the TriMaximize study</b> Frederik Trinkmann (Heidelberg, Germany), Berkta Akyildiz, Charlotte Suppli Ulrik, Detlef Nachtigall, Wolfgang Pohl, Valentina Bogoevska, Richard Russell, Veronika Grickschat, Christian Gessner
PA2377	<b>Change in asthma control after three months of treatment with extrafine formulation single-inhaler triple therapy in patients with asthma: the TriMaximize study</b> Timm Greulich (Marburg, Germany), Berkta Akyildiz, Wolfgang Pohl, Detlef Nachtigall, Richard Russell, Valentina Bogoevska, Charlotte Suppli Ulrik, Renata Slawinska, Christian Gessner
PA2378	<b>Effect on asthma control in patients with asthma and concomitant COPD after three months of treatment with extrafine formulation single-inhaler triple therapy – TriMaximize study</b> Hartmut Timmermann (Hamburg, Germany), Berkta Akyildiz, Valentina Bogoevska, Richard Russell, Detlef Nachtigall, Wolfgang Pohl, Charlotte Suppli Ulrik, Andreas Wendt, Christian Gessner
PA2379	<b>Impact of extrafine formulation single-inhaler triple therapy on lung function after three months of treatment in patients with asthma: the TriMaximize study</b> Christian Gessner (Leipzig, Germany), Berkta Akyildiz, Richard Russell, Detlef Nachtigall, Charlotte Suppli Ulrik, Valentina Bogoevska, Wolfgang Pohl, Björn Licht, Carl-Peter Criée
PA2380	<b>Are people with airways disease aware of the environmental impact of inhalers?</b> Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Taheera Ali, Rachael Ehikioya, Gráinne D'Ancona
PA2381	<b>Trends in inhaler use and associated carbon footprint: a sales data-based study in Europe</b> Alexander Wilkinson (Hertfordshire, United Kingdom), Ville Vartiainen, Christer Janson, Hanna Hisinger-Mölkänen, Lauri Lehtimäki
PA2382	<b>Socioeconomic disparities in the carbon footprint of asthma care in the UK: results from SABINA CARBON</b> Ekaterina Maslova (Reading, United Kingdom), Alexander J K Wilkinson, Christer Janson, Vasanth Radhakrishnan, Jennifer K Quint, Nigel Budgen, Trung N Tran, Yang Xu, Andrew Menzies-Gow, John P Bell
PA2383	<b>Choice of Salbutamol Metered Dose Inhaler (MDI) type and use of a Spacer Impact Drug Delivery and Carbon Emissions</b> Mark Nagel (London (ON), Canada), Jason Suggett
PA2384	<b>A Real-World Evaluation of a Digital Self-Management and Adherence Support System in Patients with Severe Asthma</b> Laura Wiffen (Portsmouth, United Kingdom), Lynn Elsey, Thomas Brown, Milan Chauhan, Ina Kostakis, Stephen Fowler, Anoop J Chauhan
PA2385	<b>Switching inhaler treatment from pMDI to DPI in real-world; reduction of carbon footprint</b> Lauri Lehtimäki (Tampere, Finland), Christer Janson, Ville Vartiainen, Hanna Hisinger-Mölkänen
PA2386	<b>Carbon footprint of as-needed budesonide-formoterol in mild asthma: a post hoc analysis</b> Lee Hatter (Wellington, New Zealand), Pepa Bruce, Allie Eathorne, Mark Holliday, Mark Weatherall, Richard Beasley
PA2387	<b>An Algerian study on patient's attitude towards inhalers</b> Redouene Sid Ahmed Benazzouz (Alger, Algeria), Safia Benazzouz, Azeddine Mekideche, Massinissa Benyagoub, Halima Chati, Aicha Djadj, Hassiba Benferhat, Fethi Boulekbache, Imad Damou, Mounir Ould Setti
PA2388	<b>Preserving treatment for asthma and COPD patients while minimizing carbon footprint: relative lung bioavailability and total systemic exposure of a medium dose formulation of BDP/FF/GB MDI with novel propellant</b> François Rony (Bois-Colombes, France), Jelle Klein, Arnaud Valent, Alessandro Guasconi, Gianluigi Poli

- PA2389** **Have we taken any steps to reduce the environmental impacts of inhalers? A perspective from a specialist respiratory team in a deprived area of the UK**  
Djeyapra Kadar (Liverpool, United Kingdom), Katie Fitzsimmons, Elaine Gossage, Sarah Sibley, Denis Wat, David Barber, Emma Rickards, Samantha Hayes
- PA2390** **The transcendence of capsule transparency in dry powder inhalation devices in the treatment of COPD.**  
Rocio Reinoso Arijia (Sevilla, Spain), Rosario Ruiz-Serrano De La Espada, María Dolores Nuñez Ollero, Laura Carrasco Hernandez, Maria Esther Quintana Gallego, Jose Luis López-Campos Bodineau
- PA2391** **Towards minimizing carbon footprint of triple fixed dose MDIs for severe asthmatic patients: relative lung bioavailability and total systemic exposure of a high dose formulation of BDP/FF/GB with novel propellant**  
François Rony (Bois-Colombes, France), Frédéric Vanhoutte, Arnaud Valent, Rabab Abbadi, Alessandro Guasconi, Gianluigi Poli
- PA2392** **Adherence to single and multiple inhaler triple therapies among patients with COPD in the real world in Japan**  
Kieran J. Rothnie (London, United Kingdom), Sandra Joksaite, Robert P. Wood, Akiko Mizukami, Lucinda J Camidge, Alexandrosz Czira, Thomas Jennison, Takeo Ishii, Olivia Massey, Kenichi Hashimoto, Rad Siddiqui, Masao Yarita, Chris Compton, Raj Sharma, Afisi S Ismaila
- PA2393** **Characteristics and treatment pathways of COPD patients initiating single-inhaler dual or triple therapy in England**  
Stephen G Noorduyn (Mississauga, Canada), Robert P Wood, Kieran J Rothnie, Kiran K Rai, Monica Seif, Lucy Massey, Chris Compton, Afisi S Ismaila

PS-8 in poster area

Session 237

08:00 - 09:30

Poster session: Clinical aspects in chronic airway diseases

Disease(s) : Airway diseases Pulmonary vascular diseases

Method(s) : Pulmonary function testing Epidemiology General respiratory patient care Public health Imaging Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Mina Gaga (Athens, Greece), Ildikó Horváth (Budakeszi, Hungary)

- PA2394** **Phenotypic differences of persistent airflow obstruction in young vs old subjects in the general population**  
Caspar Schiffers (Vienna, Austria), Rosa Faner, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal, Alvar Agustí
- PA2395** **Neglecting the neglected: Tobacco cessation support is 'essential' for the management of asthma and COPD**  
Dilek Karadoğan (Rize, Turkey), Ilknur Kaya, Merve Yumrukuz Şenel, Esin Bilgin Konyalıhatipoğlu, Tahsin Gökhan Telatar, Metin Akgün
- PA2396** **Burden of obstructive airway diseases (OADs) in 618 post-pulmonary TB patients across India.**  
Raja Dhar (Kolkata (West Bengal), India), Virendra Singh, Malay Sarkar, Arti Shah, Devasahayam J Christopher, Girija Nair, Arpan Shah, Sonali Trivedi, Suryakant Tripathi, Babaji Ghewade, Aleemuddin N. M, Saurabh Karmakar, Srivivas Rajgopala, Mohankumar Thekkinkattil, Rajesh Swarnakar, Arunakumari Badam, Kripesh Sarmah, Srikanth Krishnmurthy, Suresh Anantraj, J. Ram, Archana B, Zuber Ahmed, Sapna Madas, Priyanka Dhumal, Swapnil Gadhav, Sundeep Salvi
- PA2397** **Recovery and health related quality of life (HRQoL) in patients with pre-existing airways diseases: results from a prospective UK cohort (PHOSP-COVID)**  
Omer Elneima (Leicester, United Kingdom), Hamish J C Mcauley, John R Hurst, Samantha Walker, Salman Siddiqui, Petr Novotny, Jenni K Quint, Paul Pfeffer, Aziz Sheikh, Jeremy S Brown, Manu Shankar-Hari, Carlos Echevarria, Rachael A Evans, Louise V Wain, Liam G Heaney, Anthony De Souza, Chris E Brightling
- PA2398** **IN COVID-19 LONG-TERM IMPAIRMENT OF PULMONARY GAS-EXCHANGE IS DOMINATED BY THE VASCULAR COMPONENT**  
Luca Novelli (Bergamo, Italy), Gianluca Imeri, Chiara Allegri, Anna Caroli, Alberto Arrigoni, Roberta Trapasso, Roberta Biza, Marisa Anelli, Carlo Catani, Simone Bonetti, Francesco Caglioni, Caterina Conti, Fabiano Di Marco
- PA2399** **Association between changes in thoracic muscle mass assessed by high resolution computed tomography and static lung volumes in patients with COPD**  
Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyrman Alsted, Marina Sahakyan, Esben Bolvig Mark, Rasmus Brath Christensen, Pernille Veiss-Pedersen, Henrik Højgaard Rasmussen, Jens Brøndum Frøkjær, Lasse Riis Østergaard, Ulla Møller Weinreich
- PA2400** **Understanding COPD underdiagnosis in the post-COVID era**  
ELENA AVALOS PEREZ-URRIA (Madrid, Spain), María Rodrigo-García, Adrián Peláez, Laura Castellanos López, Alberto Martínez De Lara, Elena García Castillo, Tamara Alonso Pérez, Celeste Marcos, Rosa María Girón Moreno, Claudia Valenzuela, Julio Ancochea, Joan B Soriano

- PA2401** **The impact of a multidisciplinary assessment on COPD hospitalisations**  
Finbarr Harnedy (Cork, Ireland), Jack Allen, Michele Cuddihy, Eimear Ward, Maeve Sorohan, Imran Sulaiman, Breda Cushen
- PA2402** **Dynamic pulmonary hyperinflation induced by 6 and 12minute walk test in patients with COPD: a crossover study**  
Angelo Petroianni (Roma (RM), Italy), Silvia Magliulo, Marco Bezzio, Alessandra Iacovelli, Federica Olmati, Luigi Panza, Paolo Palange
- PA2403** **Poor asthma control in schoolchildren may lead to lower lung function trajectory from childhood to early adulthood: A japanese cohort study**  
Shingo Tsuneyoshi (Chikushino-city, Japan), Takashi Kinoshita, Ryo Yano, Chiyo Matama, Jun Sasaki, Masanobu Matsuoka, Tomotaka Kawayama, Tomoaki Hoshino
- PA2404** **Poor perception of symptom - cause of exacerbation of Bronchial Asthma**  
Chinkita Agrawal (Bareilly, India), Rajesh Agrawal, Rajat Agarwal
- PA2405** **Low healthcare utilization among patients with chronic respiratory disease in Korea**  
Seon Cheol Park (Goyang-si, Republic of Korea), Kang Ju Son, Ji Ye Jung, Sang Chul Lee, Hyun Woo Ji, Jung Mo Lee, Chang Hoon Han, Cheong Ju Kim, Sun Min Lee
- PA2406** **A pilot study of cognitive disorders, depression and anxiety in obstructive lung disease**  
Iulian-Laurentiu Buican (Craiova, Romania), Victor Gheorman, Cristina Călărășu, Andreea Mihai, Costin-Teodor Streba
- PA2407** **Evaluation of asthma control in Tunisia: Correlation between GINA guidelines and asthma control test**  
Houda Rouis (Ariana, Tunisia), Chaima Turki, Chirine Moussa, Oumayma Aggouni, Donia Jeridi, Hana Dhifallah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
- PA2408** **Metabolic Syndrome in a COPD Population: Frequency and Significance**  
KHALED DÉGHDEGH (Annaba, Algeria), Ouafa Guellati, Feriel Atoui, Randa Yakoubi, Fouad Khalloufi
- PA2409** **Asthma with fixed airflow obstruction has comparable small airway dysfunction with asthma-COPD overlap**  
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon
- PA2410** **Clinical characteristics of female patients with COPD: a multicenter cross-sectional CAP study in Japan**  
Tasuku Yamamoto (Ube, Japan), Keiji Oishi, Ryo Suetake, Syuichiro Ohata, Yoriyuki Murata, Yoshikazu Yamaji, Kenji Sakamoto, Maki Asami-Noyama, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga
- PA2411** **Analysis of the relationship between cardiovascular disease and the degree of control of chronic obstructive pulmonary disease (COPD) with the development of possible future adverse cardiovascular events.**  
Natalia González Florido (Málaga, Spain), Esperanza Doña, Ana Muñoz, Adolfo Domenech
- PA2412** **COPD and tuberculosis: friends or foes?**  
NADA Boutbagha (Agadir, Morocco), Sofia Farhat, Hanane Ikrou, Younes Essaid, Abdelkarim Khannous, Aboubakr Imzil, Abdelmajid Oulhbib, Fatiha Bounoua, Khadija Aitnasser, Houssame Ennaceri, Oussama Halloumi, Houda Moubachir, Hind Serhane
- PA2413** **Alpha- Antitrypsin Deficiency as a cystic lung disease**  
Aishath Fazleen (Southampton, United Kingdom), Ausami Abbas, Jonathan Dunbar, Benjamin Welham, Alex Kong, Tom Wilkinson

PS-9 in poster area

Session 238

08:00 - 09:30

Poster session: Monitoring in chronic airway disease (2)

Disease(s) : **Airway diseases**

Method(s) : Physiology Pulmonary function testing General respiratory patient care Public health Epidemiology

Tag(s) : Clinical

Chairs : Marieann Högman (Uppsala, Sweden), Antonio Spanevello (Milano, Italy)

- PA2414** **Title: Prevalence and predictors of suboptimal PIFR in patients with COPD**  
Madhuri Batyala (Mumbai, India), Ashwini Chawhan, Lancelot Pinto, Bony Francis, Nisha Chandra Shekar, Dhara Thakrar

- PA2415** **Assessing health Effects of air pollution by non-invasive exhaled breath analysis – baseline characteristics of the ALERT study**  
Laila Truyen (Wilrijk, Belgium), Stijn Verresen, Eline Galle, Jan Van Meerbeeck, Roeland Samson, Thérèse Lapperre, Kevin Lamote



- PA2416** **A scoping review of co-creation practice in the development of non-pharmacological interventions for people with chronic obstructive pulmonary disease**  
Qingfan An (Umeå, Sweden), Marlene Sandlund, Danielle Agnello, Lauren Mccaffrey, Sebastien Chastin, Ragnberth Helleday, Karin Wadell
- 
- PA2417** **Trends in lung transplantation in Spain. the influence of the pandemic of covid-19.**  
Zichen Ji (Madrid, Spain), Katuska Herminia Liendo Martínez, Stephany Ivonne Briones Alvarado, Crsithian Alonso Correa Gutierrez, Luis Puente Maestu, Javier De Miguel-Diez
- 
- PA2418** **Cluster analysis applied to 142 Algerian patients with COPD**  
Karim KHENNOUF (ALGIERS, Algeria), Abdelkarim Saadi, Souad Souilah, Yacine Benbetka, Samya Taright
- 
- PA2419** **Clinical significance of symptoms in smokers with preserved pulmonary function: a cross-sectional study**  
Allabyergyen Myeryemkhaan (Ulaanbaatar, Mongolia), Byambatseren Boldbaatar, Otgonjargal Gurragchaa, Amartuvshin Ganbold, Ichinnorov Dashtseren
- 
- PA2420** **Analysis of the relation between tidal and forced spirometric curves**  
Rob Hagmeijer (Enschede, Netherlands), Rutger Hebbink, Judith Elshof, Marieke Duiverman, Peter Wijkstra
- 
- PA2421** **The effectiveness of monitoring adherence to regular inhaled corticosteroid alone or in combination with a long-acting  $\beta$ 2-agonist using electronic methods: a narrative systematic review**  
Mohammed Almutairi (Birmingham, United Kingdom), John Marriott, Adel Mansur
- 
- PA2422** **Guideline-modified asthma control test (GmACT): improving monitoring of disease control**  
Enrico Schiavi (Roma, Italy), Maria Parmigiani, Francesca Cefaloni, Cristina Boccabella, Luca Richeldi, Matteo Bonini
- 
- PA2423** **Changes in obstruction classification using different interpretation strategies**  
Martijn Cuijpers (Roermond, Netherlands), Monique Hardy, Herman Jan Pennings
- 
- PA2424** **Lack of association between self-perceived social support and treatable traits in COPD patients with resident loved ones**  
Anna Stoustrup (Gandrup, Denmark), Daisy J.A. Janssen, Nienke Nakken, Emiel F.M. Wouters, Ulla M. Weinreich, Martijn A. Spruit
- 
- PA2425** **Defining restrictive spirometry and PRISm using LLN versus %pred: does it matter?**  
Caspar Schiffers (Vienna, Austria), Emiel F.M. Wouters, Tobias Lorenz Mraz, Marie-Kathrin Breyer, Otto C. Burghuber, Sylvia Hartl, Robab Breyer-Kohansal
- 
- PA2426** **Impulse oscillometry: a useful toll for the air trapping detection.**  
María Rodil Riera (LANGREO, Spain), Ramón Fernández Álvarez, Marta Íscar Urrutia, María José Vázquez López, Gemma Rubinos Cuadrado, Isabel Martínez González-Posada, Ángela Lanza Martínez, Laura Martínez Vega, Eduardo Sánchez Vázquez, Juan Francisco Nieves Salceda, Laura Abad Chamorro, Patricia Álvarez Álvarez, Marta María García Clemente
- 
- PA2427** **Past acute exacerbations predict future relapses in patients with chronic hypercapnic COPD receiving long-term non-invasive ventilation**  
Balázs Csoma (Budapest, Hungary), Zsófia Lázár, Joshua Hilton, Ellie Walker, Kelly Sharman, Jorgen Vestbo, Andrew Bentley, Andras Bikov
- 
- PA2428** **Desaturation during exercise in patients with chronic obstructive pulmonary disease: new predictive factors for nocturnal desaturation**  
Elena Lesaga López (Córdoba (Córdoba), Spain), Antonio Jurado García, Cristina Muñoz Corroto, Pablo García Lovera, Marta Dominguez Gómez, Roberto Martín De León, Nuria Feu Collado, Bernabe Jurado Gamez
- 
- PA2429** **A survey about knowledge of exhaled nitric oxide use among Southern Italian pulmonologists and trainees.**  
Silvano Dragonieri (Bari (BA), Italy), Alessio Marinelli, Andrea Portacci, Leonardo Maselli, Ernesto Lulaj, Ilaria Iorillo, Francesca Montagnolo, Flogerta Sana, Ruben Infantino, Giovanni Dalena, Giovanna Elisiana Carpagnano
- 
- PA2430** **Small airways impairment and hyperinflation in patients with bronchiectasis; preliminary data from a tertiary center.**  
Nikolaos Lazarinis (Stockholm, Sweden), Pia Ghosh, Malin Sande, Ann Sofie Lantz, Eva Wallen Nielsen, Barbro Dahlen, Apostolos Bossios
- 
- PA2431** **Pulmonary function evaluation on Asthma-COPD overlap from ELSA-Brasil cohort study.**  
Francine Maria Almeida (São Paulo (SP), Brazil), Roselaine Maria Oliveira, Vitoria Caroline Queiroz, Clarice Rosa Olivo, Beatriz Manguiera Saraiva-Romanholo, Paulo A Lotufo, Isabela Bensenor, Itamar Souza Santos, Iolanda Fátima Lopes Calvo Tibério
- 
- PA2432** **Automated quantification of QT-intervals by an algorithm: A validation study in patients with COPD**  
Dario Kohlbrenner (Copenhagen, Denmark), Maya Bisang, Sayaka S. Aeschbacher, Emanuel Heusser, Silvia Ulrich, Konrad E. Bloch, Michael Furian

**Gold Session 239 08:30 - 10:00****Guidelines session: Management of adults with spontaneous pneumothorax/what's new in the management of severe community-acquired pneumonia**

1) ERS/EACTS/ESTS clinical practice guidelines on adults with spontaneous pneumothorax and 2)

ERS/ESICM/ESCMID/ALAT guidelines for the management of severe community-acquired pneumonia

**Aims :** to discuss two new published guidelines, namely, ERS/EACTS/ESTS clinical practice guidelines on adults with spontaneous pneumothorax and ERS/ESICM/ESCMID/ALAT guidelines for the management of severe community-acquired pneumonia (sCAP) ; to present an overview of new evidence in the management of spontaneous pneumothorax and sCAP; to outline the recommendations identified in the guidelines on pneumothorax and sCAP; to provide pragmatic guidance for specialists on how to best manage spontaneous pneumothorax and sCAP.

**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physician in Pulmonary Training, Thoracic surgeon

**Chairs :** Walter De Wever (Leuven, Belgium), Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

08:30	<b>The medical management of spontaneous pneumothorax</b> Steven Walker (Bristol (Avon), United Kingdom)	2434
08:45	<b>The surgical management of spontaneous pneumothorax</b> Marcello Migliore (Riyadh, Saudi Arabia)	2435
09:00	<b>Discussion and Q&amp;A</b> All Speakers	2436
09:15	<b>What's new in sCAP</b> Ignacio Martin-Loeches (Dublin, Ireland)	2437
09:30	<b>Coadjuvants in sCAP</b> Antoni Torres Marti (Barcelona, Spain)	2438
09:45	<b>Discussion and Q&amp;A</b> All Speakers	2439

**Silver Session 240 08:30 - 10:00****Symposium: Pulmonary hypertension and interstitial lung diseases: dilemmas in diagnosis and the conundrum of treatment**

**Aims :** to provide the latest updates on pulmonary hypertension (PH) due to interstitial lung disease (ILD), including screening/diagnosis, treatment and future research directions. PH often complicates many forms of advanced lung disease, including pulmonary fibrosis; to discuss the main novel achievements (pathophysiology, diagnosis and management) in the field of PH when patients have CLDs; to strengthen understanding of PH due to lung diseases and to improve the care and quality of life of affected patients.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Pulmonary vascular diseases**

**Method(s) :** Cell and molecular biology Imaging Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Radiologist, Scientist (basic, translational)

**Chairs :** Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France), Thomas Koudstaal (Rotterdam, Netherlands)

08:30	<b>What do we know about the mechanisms of PH in ILD: translational research</b> Soni Savai Pullamsetti (Giessen, Germany)	2440
08:45	<b>From screening to phenotypes in PH-ILDs: the impact of new guidelines</b> Lucilla Piccari (Barcelona, Spain)	2441
09:00	<b>Pro: it is time to treat PH in ILD</b> Oksana Shlobin (Falls Church, United States)	2442
09:15	<b>Con: it is not time to treat PH in ILD</b> John Wort (London, United Kingdom)	2443

09:30 **Discussion and Q&A** 2444  
All Speakers

**Coral 4+5** **Session 241** **08:30 - 10:00**

**State of the art session: Sleep and breathing disorders**

**Sleep-disordered breathing and the heart. What is next?**

**Aims :** to discuss the latest data about sleep-disordered breathing in association with cardiovascular disease; to present and discuss new evidence in the field that will contribute to the management of sleep-disordered breathing.

**Disease(s) :** Sleep and breathing disorders

**Method(s) :** General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Patient, Journalist

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

08:30 **Antihypertensive drugs vs. positive pressure. Which one is better to reduce hypertension?** 2445  
Silke Ryan (Dublin, Ireland)

08:45 **Heart failure in sleep-disordered breathing: is positive airway pressure therapy meaningful?** 2446  
Douglas Bradley (Toronto (ON), Canada)

09:00 **Is sleep-disordered breathing a risk factor or phenotype of cardiovascular disease?** 2447  
Manuel Sanchez De La Torre (Lleida, Spain)

09:15 **New kids on the blocks: pharmacologic treatment of sleep-disordered breathing also for cardiovascular patients?** 2448  
Elisa Perger (Milano, Italy)

09:30 **Discussion and Q&A** 2449  
All Speakers

**Coral 3** **Session 242** **08:30 - 10:00**

**Hot topics: Non-invasive high-flow nasal therapy or positive pressure ventilation in acute and chronic respiratory care**

**Aims :** to discuss the mechanisms, evidence for clinical effectiveness and cost-effectiveness of non-invasive positive pressure ventilation and high-flow nasal therapy in acute and chronic respiratory failure.

**Disease(s) :** Airway diseases Respiratory critical care Sleep and breathing disorders

**Method(s) :** General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physiologist, Respiratory physiotherapist

**Chairs :** Peter J. Wijkstra (Groningen, Netherlands), Heleen Demeyer (Leuven, Belgium)

08:30 **Flow treatment in acute respiratory care** 2450  
Lara Pisani (Bologna (BO), Italy)

08:45 **Pressure treatment in acute respiratory care** 2451  
Claudia Crimi (Catania (CT), Italy)

09:00 **Flow treatment in chronic respiratory care** 2452  
Rebecca D'Cruz (London, United Kingdom)

09:15 **Pressure treatment in chronic respiratory care** 2453  
Wolfram Windisch (Cologne, Germany)

09:30 **Discussion and Q&A** 2454  
All Speakers

**Coral 1** **Session 243** **08:30 - 10:00**

**Hot topics: What did you always want to know about omics analyses for clinical practice?**

**Aims :** to discuss the rapid advances in omics technology and the molecular phenotyping of asthma and COPD cohorts that now permit large-scale evaluation of genetic, transcriptomic, proteomic and metabolic biomarkers.

**Disease(s) :** Airway diseases

**Method(s) :** Cell and molecular biology

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs :** Niki L. Reynaert (Maastricht, Netherlands), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Sara Cuevas Ocaña (Nottingham, United Kingdom)

08:30	<b>Transcriptomics in chronic airway diseases: when, how and why?</b> Martijn C. Nawijn (Groningen, Netherlands)	2455
08:45	<b>Spatial omics: a cutting-edge tool to navigate the airway map</b> Francesca Polverino (Houston, United States)	2456
09:00	<b>Proteomics in airway diseases: current approaches and future directions</b> Ian M. Adcock (London, United Kingdom)	2457
09:15	<b>Integration of omics in clinical cohorts: unrolling Ariadne's thread</b> Rosa Faner Canet (Barcelona, Spain)	2458
09:30	<b>Discussion and Q&amp;A</b> All Speakers	2459

## Coral 2 Session 244 08:30 - 10:00

### Clinical cases: Clinical challenges beyond guidelines

**Aims :** to describe the controversial aspects of the current guidelines for the environmental health prevention and air pollution standards, management of adult bronchiectasis, diagnosis and treatment of Langerhans cell histiocytosis in adults and treatment of stage I non-small cell lung cancer; to discuss data underpinning nonadherence and alternative approaches to current recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern; to highlight the need for further research.

**Disease(s) :** Airway diseases Respiratory infections Interstitial lung diseases Thoracic oncology

**Tag(s) :** Clinical

**Chairs :** Albert Osterhaus (Hannover, Germany), Michael Loebinger (London, United Kingdom), Sara Tomassetti (Florence, Italy)

08:30	<b>Management of adult bronchiectasis, including Q&amp;A</b> Eva Van Braeckel (Ghent, Belgium)	2460
08:52	<b>Environmental health prevention and standards on air pollution, including Q&amp;A</b> Isabella Annesi Maesano (Montpellier, France)	2461
09:14	<b>Diagnosis and treatment of Langerhans cell histiocytosis in adults, including Q&amp;A</b> Sergio Alfonso Harari (Milano (MI), Italy)	2462
09:36	<b>Treatment of stage I non-small cell lung cancer, including Q&amp;A</b> Georgia Hardavella (Athens, Greece)	2463

## Purple Session 245 08:30 - 10:00

### Mini symposium: Exercise training, physical activity and self-management at home

**Aims :** to identify the core components, efficacy, strengths, limitations, evidence gaps and research necessary to guide the future delivery of home-based care and pulmonary rehabilitation; to describe patient and outcome assessment, exercise training, physical activity and self-management at home.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** General respiratory patient care Pulmonary rehabilitation Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Joana Cruz (Leiria, Portugal), Christian Karagiannidis (Cologne, Germany), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

08:30	<b>Patient and outcome assessment for care and rehabilitation at home</b> Narelle Cox (Melbourne (VIC), Australia)	2464
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08:45	<b>Exercise training and physical activity intervention at home</b> Marc Spielmanns (Wald, Switzerland)	2465
09:00	<b>Education, self-management and other components of home-based care and rehabilitation</b> Jean Bourbeau (Montréal (QC), Canada)	2466
09:15	<b>Discussion and Q&amp;A</b> All Speakers	2467

### Studio (White) Session 246 08:30 - 08:45

#### News from the studio: News from the studio

**Chairs :** Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

08:30	<b>Discussion and Q&amp;A</b> All Speakers	2468
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### Studio (White) Session 247 08:45 - 09:30

#### Pro-Con debate: Age limit for lung transplant in 2023: is there a barrier?

**Aims :** to clarify the clinical and ethical issues associated with the age limit and the outcomes of lung transplant in older patients.

**Method(s) :** Transplantation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Patient, Thoracic surgeon

**Chairs :** Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

08:45	<b>Pro: age of 65 years is no longer a barrier for lung transplant candidacy</b> Konrad Hoetzenecker (Wien, Austria)	2469
09:00	<b>Con: age still matters in candidate selection for lung transplantation</b> Are Martin Holm (Oslo, Norway)	2470
09:15	<b>Discussion and Q&amp;A</b> All Speakers	2471

### Brown 3 Session 250 09:30 - 10:45

#### Oral presentation: COVID-19: diagnosis and treatments

**Disease(s) :** Airway diseases Respiratory critical care

**Method(s) :** Epidemiology General respiratory patient care Public health Cell and molecular biology Pulmonary function testing Pulmonary rehabilitation Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** Tony De Soya (Newcastle-upon-Tyne, United Kingdom), Gareth Hynes (Oxford (Oxfordshire), United Kingdom)

OA2483	<b>Late Breaking Abstract - INNA-051 prophylaxis enhances innate immune responses confirming accelerated viral clearance in a human influenza challenge model.</b> Francesca Mercuri (Melbourne, Australia), Hayley Mcquiltlen, Nicholas West, Ping Zhang, Scott White, Bruce.E Miller, Ruth Tal-Singer, Christophe Demaison
OA2484	<b>The impact of the COVID-19 pandemic in deaths due to respiratory diseases: A comparative analysis of 2021 and 2020 vs background rates in 2019 in Spain</b> Joan B Soriano (Madrid, Spain), Adrián Pelaez, Esteve Fernandez, Julio Ancochea
OA2485	<b>LSC - 2023 - Longitudinal proteomic profiling reveals early onset increase in collagens and (auto-)antibodies in COVID-19 patients</b> Anna Semenova (Munich, Germany), Taylor Alexander Poor, Philipp Geyer, Ali Oender Yildirim, Theodore S. Kapellos, Alexander V Misharin, Gr Scott Budinger, Herbert B. Schiller
OA2486	<b>Diagnosis of COVID-19 with enhanced real-time mass spectrometry breath analysis</b> Stanislas Grassin Delye (Montigny le Bretonneux, France), Camille Roquencourt, H�el�ene Salvator, Emmanuelle Bardin, Elodie Lamy, Eric Farfour, Naline Emmanuel, Philippe Devillier
OA2487	<b>Abnormal immune response in patients with persistent lung sequelae after COVID-19</b> Tamara Cruz Santa Cruz (Barcelona, Spain), Nuria Mendoza, Nuria Albacar, Lidia Perea, Pau Marrades, Carolina Panadero, Odette Vi�nas, Estibaliz Ruiz, Alvar Agust�i, Jacobo Sellares, Oriol Sibila, Rosa Faner

- OA2488 Plasma proteomics of critical COVID-19 patients and the effect of imatinib treatment**  
Erik Duijvelaar (Amsterdam, Netherlands), Jack Gisby, James E Peters, Harm Jan Bogaard, Jurjan Aman
- 
- OA2489 Expression patterns of Interleukin-33 and its receptor ST2 in severe COVID-19**  
Caroline Lindö (Lund, Sweden), Natália De Souza Xavier Costa, Premkumar Siddhuraj, Jimmie Jönsson, Jamie M Orengo, Matthew A Sleeman, Sandra Lindstedt, Cecilia Andersson, Luiz Fernando Silva, Armario Nunes Duarteneto, Paulo Hilario Nascimento Saldiva, Caroline Sandén, Thais Mauad, Jonas Erjefält
- 
- OA2490 DIURNAL RHYTHMS IN COVID-19 VACCINE EFFICACY**  
Guy Hazan (Dvira, Israel), Or Duek, Hillel Alapi, Hiram Mok, Alex Ganninger, Elaine Ostendorf, Carrie Gierasch, Gabriel Chodick, David Greenberg, Jeffrey Haspel
- 
- OA2491 Post-Hospitalisation COVID-19 (PHOSP-COVID): a prospective multi-centre UK cohort study**  
Omer Elneima (Leicester, United Kingdom), Hamish J C Mcauley, Olivia C Leavy, James D Chalmers, Ling-Pei Ho, Alexander Horsley, Michael Marks, Betty Raman, Krisnah Poinasamy, Amisha Singapuri, Rachael A Evans, Chris E Brightling, Louise V Wain
- 
- OA2492 Subtle Pulse Electro-biological Recovery Apparatus (SPERA) as anti-inflammatory treatment for COVID-19 – A Proof of Concept Study**  
Stefan-Marian Frent (Timisoara, Romania), Graham Giles, Dora Paroczai, Voicu Tudorache, Iosif Marincu, Oana Raduna, Sorin Herban, Marius Marcu, Flavius Pater, Fergus Law, Martin Wise, Cristian Oancea
- 
- OA2493 Discussion and Q&A**  
All Speakers

Brown 1+2

Session 251

09:30 - 10:45

### Oral presentation: Pathways and mechanisms governing the pathogenesis of asthma and chronic obstructive pulmonary disease

**Disease(s) :** [Airway diseases](#) [Respiratory critical care](#)

**Method(s) :** Epidemiology Cell and molecular biology Physiology General respiratory patient care

**Tag(s) :** Clinical, Translational

**Chairs :** Gert-Jan Braunstahl (Rotterdam, Netherlands), Astrid Aardenburg - van Huisstede (Alkmaar, Netherlands)

- OA2494 Late Breaking Abstract - Effect of MMP-12 inhibitor, Adermastat-(FP-025), on allergen-induced late response in asthmatic subjects**  
Zuzana Diamant (Lund, Sweden), Yisheng Lee, Wenjin Yang, Ben Chien, Bassem Elmankabadi, David Lau, Khalid Abd-Elaziz, Arjen Pelgrom, Aeilko Zwinderman, René Lutter
- 
- OA2495 Late Breaking Abstract - Dynamics of the blood innate lymphoid cell compartment in patients with severe asthma undergoing type 2 biologics treatment: Initial findings in the BIOCROSS study**  
Lorenz Wirth (Huddinge, Sweden), Valentyna Yasinska, Christopher Andrew Tibbitt, Whitney Weigel, Thomas Hochdörfer, Lars I. Andersson, Maria Sparreman-Mikus, Barbro Dahlén, Sven-Erik Dahlén, Jenny Mjösberg
- 
- OA2496 Late Breaking Abstract - Stability of type 2 inflammation in a 12-year adult-onset asthma follow-up study**  
Ella Flinkman (Tampere, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Madeleine Rådinger, Bright Nwaru, Pinja Ilmarinen, Hannu Kankaanranta
- 
- OA2497 Polygenic and transcriptional risk scores identify chronic obstructive pulmonary disease subtypes**  
Matthew Moll (Boston, United States), Julian Hecker, John Platig, Auyon Ghosh, Katherine Pratte, Davin Hill, Iain Konigsberg, Joe Chiles, Craig Hersh, Peter Castaldi, Kimberly Glass, Jennifer Dy, Don Sin, Ruth Tal-Singer, Majd Mouded, Stephan Rennard, Gary Anderson, Russell Bowler, Jeffrey Curtis, Merry-Lynn Mcdonald, Edwin Silverman, Michael Cho, Brian Hobbs
- 
- OA2498 Effect of anti-ST2 on blood leukocyte and serum protein levels: insight from a phase IIa, placebo-controlled trial of astegolimab (COPD-ST2OP).**  
Adam Wright (Leicester (Leicestershire), United Kingdom), Matthew Richardson, Seid Mohammed, Claudia Micieli, Dorothy Cheung, David Cousins, Ahmed Yousuf, Neil Greening, Michele Grimaldeston, David Choy, Christopher Brightling
- 
- OA2499 Prediction of severe asthma clinical phenotypes using molecular profiles of urine eicosanoids**  
Johan Kolmert (Stockholm, Sweden), Maria Sparreman-Mikus, Bertrand De Meulder, Lars I Andersson, Ian Adcock, Ratko Djukanovic, Sven-Erik Dahlén, Craig E. Wheelock
- 
- OA2500 Infertility in women with asthma – does asthma also exist in the uterus?**  
Anne Vejen Hansen (København NV, Denmark), Casper Tidemandsen, Henriette Svarre Nielsen, Reza Serizawa, Antje Johanne Katrine Stubsgaard, Elisabeth Juul Gade, Pia Egerup, Lea Langhoff Thuesen, Paul S Foster, Vanessa M Mcdonald, Peter G Gibson, Charlotte Suppli Ulrik, Nina Cour Freiesleben, Vibeke Backer

- OA2501** **Zinc plays an essential role in type 2 cytokine production from ILC2s in asthma**  
Hiroki Kabata (Tokyo, Japan), Misato Irie, Rie Baba, Yoshitaka Shirasaki, Takashi Kamatani, Mai Yamagishi, Koichi Fukunaga
- OA2502** **Innate lymphoid cells type 2 and CD8+ T cells are perturbed in overweight and obese individuals with asthma**  
Chris Tibbitt (Stockholm, Sweden), Sofia Björkander, Paul Maier, Maura Kere, Simon Kebede Merid, Lorenz Wirth, Whitney Weigel, Jenny Mjösberg, Erik Melén
- OA2503** **Charcot-Leyden crystals are associated with airway autoimmune responses in severe asthma**  
Manali Mukherjee (Hamilton (ON), Canada), Kiho Son, Kayla Zhang, Raquel Lopez, Aswathi Nair, Emily Volfson, Katherine Radford, Nicola Calma, Melanie Kjarsgaard, Chynna Huang, Parameswaran Nair
- OA2504** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 252

09:30 - 10:45

## Oral presentation: Paediatric bronchology: next generation

Disease(s) : [Interstitial lung diseases](#) [Respiratory critical care](#)

Method(s) : Endoscopy and interventional pulmonology General respiratory patient care Epidemiology Pulmonary function testing Transplantation Cell and molecular biology

Tag(s) : Clinical

Chairs : Raffaella Nenna (Rome, Italy), Nadine Freitag (Krefeld, Germany)

- OA2505** **Childhood interstitial lung disease in Turkey: First data from the national registry**  
Halime Nayır Büyüksahin (Ankara, Turkey), Nagehan Emiralioğlu, Ayşe Ayzıt Kılınc, Saniye Girit, Ebru Yalçın, Tuğba Şişmanlar Eyüboğlu, Nazan Çobanoğlu, Güzin Cinel, Sevgi Pekcan, Yasemin Gökdemir, Berna Oğuz, Diclehan Orhan, Deniz Doğru, Uğur Özçelik, Azer Kılıç Başkan, Hüseyin Arslan, Haluk Çokuğraş, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi Tortop, Ayşe Tana Aslan, Handan Kekeç, Fazılcan Zirek, Merve Nur Tekin, Figen Gülen, Bahar Girgin Dindar, Sanem Eryılmaz Polat, Salih Uytun, Aslı Imran Yılmaz, Gökçen Ünal, Ela Erdem Eralp, Bülent Karadağ, Melih Hangül, Mehmet Köse, Beste Özsezen, Erkan Çakır, Ayşen Bingöl, Mina Gharibzadeh Hızal, Gökçen Oztürk, Zeynep Seda Uyan, Tuğba Ramaslı Gürsoy, Derya Ufuk Altıntaş, Nural Kiper, . Child-Turkey-Collaboration
- OA2506** **Analysis of risk factors for protracted bacterial bronchitis in infancy and long-term sequelae**  
Anne Schlegtendal (Bochum, Germany), Karen Brückner, Jan Hermann, Stefanie Dillenhöfer, Christoph Maier, Folke Brinkmann, Cordula Koerner-Rettberg
- OA2507** **The effect of nutritional parameters on the prognosis of childhood interstitial lung diseases**  
Nagehan Emiralioğlu (Ankara, Turkey), Tuğba Ramaslı Gürsoy, Matthias Griesse, Elias Seidl, Nicolaus Schwerk, Julia Carlens, Martin Wetzke, Steve Cunningham, Joanna Lange, Katarzyna Krenke, Zsolt Szepefalusi, Florian Stehling, Winfried Baden, Susanne Hämmerling, Silvija-Pera Jerkic, Marijke Proesmans, Nicola Ullmann, Deborah Snijders, Frederik Buchvald, Antonio Moreno Galdo, Nadia Nathan, Ralph Epaud, Andy Bush, Ayşe Tana Aslan, Nazan Cobanoglu, Nural Kiper
- OA2508** **Paediatric lung transplantation for children with interstitial lung disease: A 12-year single-center analysis of underlying ChILD diagnoses and outcome**  
Julia Carlens (Hannover, Germany), Nicolaus Schwerk, Carsten Müller, Katharina Schütz, Florian Länger, Gesine Hansen, Jawad Salman, Dmitry Bobylev, Fabio Ius
- OA2509** **Lung function and respiratory complications in children and young people born with oesophageal atresia and/or tracheoesophageal fistula: a 20 year experience**  
Katie Rose (Liverpool (Merseyside), United Kingdom), Philip Lawrence, Jonathan Ducey, Fiona Murphy, Rebecca Thursfield
- OA2510** **Serum biomarkers in persistent tachypnea of infancy (CRC chILD-EU)**  
Honorata Marczak (Warszawa, Poland), Joanna Peradzyńska, Magdalena Paplińska-Goryca, Paulina Misiukiewicz-Stępień, Małgorzata Proboszcz, Katarzyna Krenke
- OA2511** **Respiratory response to chronic aspirations in children**  
Nadine Freitag (Krefeld, Germany), Thi Minh Thao Lea Nguyen, Katrin Krug
- OA2512** **Flexible bronchoscopy in pediatric patients with Down syndrome: a case-control study of the indications, findings, and complications**  
Noga Arwas (Beer Sheva, Israel), Aviv Goldbart, Micha Aviram, Yotam Dizitzer, Itay Pansky, Inbal Golan- Tripto
- OA2513** **IgG4-related respiratory disease: a retrospective study of 115 patients**  
Shoko Matsui (Toyama, Japan), Hiroshi Yamamoto, Seijiro Minamoto, Tomohiro Handa, Yuko Waseda, Aki Matsui, Masamichi Komatsu, Seisuke Okazawa, Akira Hebisawa, Motohisa Yamamoto, Hiroki Takahashi, Masataka Umeda, Tomoki Origuchi, Takako Saeki

OA2514 **Discussion and Q&A**  
All Speakers

**Yellow 1+2+3**

**Session 253**

**09:30 - 10:45**

**Oral presentation: Micro- and macro-environments and respiratory health**

**Disease(s)** : Airway diseases

**Method(s)** : Cell and molecular biology Epidemiology Public health Pulmonary function testing General respiratory patient care

**Tag(s)** : Basic science, Translational

**Chairs** : Rafael E. de la Hoz (New York, United States), Sara De Matteis (Cagliari, Italy)

OA2515 **Late Breaking Abstract - Biomarker profiles differ between lung function trajectories in adults with airway obstruction**  
Helena Backman (Lulea, Sweden), Jonas Eriksson-Ström, Anders Lundquist, Caroline Stridsman, Linnea Hedman, Eva Rönmark, Anders Blomberg, Anne Lindberg

OA2516 **Antimicrobial resistance genes in the upper respiratory tract of COPD patients and controls in relation to air pollution from livestock farms**  
Beatrice Cornu Hewitt (Utrecht, Netherlands), Alex Bossers, Warner Van Kersen, Myrna De Rooij, Lidwien A.M. Smit

OA2517 **Association between indoor bacterial communities, lung function and airway inflammation**  
Randi Bertelsen (Bergen, Norway), Hesham Amin, Christine Cramer, Christine Drengenes, Kai Finster, Francisco Gomez Real, Thorarinn Gislason, Mathias Holm, Christer Janson, Nils Oskar Jögi, Rain Jogi, Andrei Malinowski, Ian P.G. Marshall, Lars Modig, Dan Norbäck, Rajesh Shigdel, Torben Sigsgaard, Cecilie Svanes, Hulda Thorarinsdottir, Inge M. Wouters, Tina Šantl-Temkiv, Vivi Schlünssen

OA2518 **Ambient air pollution exposure linked to long COVID among Swedish young adults**  
Zhebin Yu (solna, Sweden), Sandra Ekström, Tom Bellander, Petter Ljungman, Göran Pershagen, Kristina Eneroth, Inger Kull, Anna Bergström, Antonios Georgelis, Massimo Stafoggia, Olena Gruzjeva, Erik Melén

OA2519 **The residential green environment and lung function into adolescence in European birth cohorts. A CADSET initiative**  
Carlos Valencia-Hernandez (London, United Kingdom), Ulrike Gehring, Gerard H. Koppelman, Marie Standl, Claudia Flexeder, Tamara Schikowski, Sara Kress, Erik Melén, Olena Gruzjeva, Judith Garcia-Aymerich, Sara Koch, Chloe I. Bloom, Elaine Fuertes

OA2520 **Air pollution modifies the association between greenness and the development of allergic rhinitis up to 27 years of age: The Espoo Cohort Study**  
Inês Paciência (Oulu, Finland), Aino K. Rantala, Harri Antikainen, Jan Hjort, Timo T. Hugg, Maritta S. Jaakkola, Jouni J.K. Jaakkola

OA2521 **Long-term exposure to air pollution and the risk of obstructive lung disease in a Danish nationwide analysis**  
Rina So (London, United Kingdom), Youn-Hee Lim, Jiawei Zhang, Laust Mortensen, Kees De Hoogh, Steffen Loft, George Napolitano, Thomas Cole-Hunter, Stéphane Tuffier, Marie Bergmann, Matija Maric, Bert Brunekreef, Gerard Hoek, Zorana Andersen

OA2522 **Long-term exposure to ambient ozone and lung function decline over 20 years in a prospective cohort of adults: The ECRHS study**  
Joachim Heinrich (München, Germany), Tianyu Zhao

OA2523 **Influence of improved cookstove in rural Rwanda on indoor air pollution and lung function**  
Henning Kothe (Hamburg, Germany), Andrea Cuesta, Leizel Madueno, Mira Pöhlker, Alan Mubiru, Christine Muhongerva, Jan Rupp

OA2524 **Economic and environmental impact of the non-clinical change of inhaler devices for COPD and asthma in Spain**  
Joan B Soriano (Madrid, Spain), Míriam Solozabal-Coll, Jose Vicente Galindo, Oriol Solà-Morales

OA2525 **Discussion and Q&A**  
All Speakers

**Studio (White)**

**Session 254**

**10:00 - 10:50**

**Experts interview: Preparing for the next pandemic/respiratory physiotherapy in children**

**Tag(s)** : Clinical

**Chairs** : Sejal Saglani (London, United Kingdom), Ioannis Vogiatzis (Blyth, United Kingdom)

10:00 **Preparing for the next pandemic: the legacy of COVID-19**  
Ilaria Capua (Bologna, Italy)

2526



10:15	<b>Discussion and Q&amp;A</b> All Speakers	2527
10:25	<b>Respiratory physiotherapy in children</b> Kris Ides (Antwerpen, Belgium)	2528
10:40	<b>Discussion and Q&amp;A</b> All Speakers	2529

## Gold Session 255 10:15 - 11:45

### Clinical cases: Imaging of environment-induced changes in the lung Imaging in the era of air pollution

**Aims :** to explain which common respiratory disorders are related to air pollution and environmental changes, and to explain when imaging is necessary in these cases and the associated imaging findings.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** General respiratory patient care Imaging Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist

**Chairs :** Walter De Wever (Leuven, Belgium), Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

10:15	<b>Hypersensitivity pneumonitis, including Q&amp;A</b> Jonathan H. Chung (San Diego, United States)	2530
10:37	<b>Asthma, rhinosinusitis and COPD, including Q&amp;A</b> Anna Kerpel-Fronius (Budapest, Hungary)	2531
10:59	<b>Environmental exposure: pneumoconosis, including Q&amp;A</b> Johny Verschakelen (Leuven, Belgium)	2532
11:21	<b>Respiratory infection in the era of a changed climate, including Q&amp;A</b> Eva Polverino (Barcelona, Spain)	2533

## Silver Session 256 10:15 - 11:45

### Symposium: Difficult treatment decisions in pulmonary hypertension

**Aims :** to discuss different treatment possibilities for pulmonary hypertension (PH) patients with right heart failure, including the use of catecholamines, the impact of mechanical ventilation and the use of extracorporeal membrane oxygenation; to describe the risks of pregnancy in patients with pulmonary arterial hypertension (PAH), including the risks in delivery and the postpartum period; to discuss different clinical approaches to pregnancy in PAH patients; to discuss the difficulties in treating elderly PAH patients with multiple comorbidities; to highlight care of end-stage PAH patients and options for palliative care.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care

**Method(s) :** Palliative care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Respiratory therapist

**Chairs :** Marc Humbert (Le Kremlin-Bicêtre, France), Katerina Antoniou (Heraklion, Greece), Thomas Koudstaal (Rotterdam, Netherlands)

10:15	<b>Managing PH patients with right heart failure in the intensive care unit</b> Laurent Savale (Le Kremlin-Bicêtre, France)	2534
10:30	<b>Pregnancy and PAH</b> Silvia Ulrich (Zurich, Switzerland)	2535
10:45	<b>Idiopathic PAH patients with risk factors for heart and lung disease</b> Harm Jan Bogaard (Amsterdam, Netherlands)	2536
11:00	<b>Palliative care in pulmonary hypertension</b> Wendy Gin-Sing (London, United Kingdom)	2537

11:15 **Discussion and Q&A** 2538  
All Speakers

**Coral 4+5** **Session 257** **10:15 - 11:45**

**Symposium: New insights into diagnostic aspects of sleep-disordered breathing**

**Aims :** to describe new insights from recent clinical trials and meta-analyses about the diagnosis of sleep-disordered breathing (SDB); to address different important aspects such as new diagnostic tools, including cardiovascular parameters and artificial intelligence, and their technical standards and clinical implications; to evaluate the pathophysiological traits of SDB from routine polysomnography or polygraphy signals and their role in the evaluation of SDB severity; to discuss the importance of new biomarkers and the diagnostic approach in patients with excessive daytime sleepiness.

**Disease(s) :** Respiratory critical care Sleep and breathing disorders

**Method(s) :** Epidemiology Physiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

10:15 **New diagnostic tools for SDB: from technical standards to artificial intelligence and clinical implications** 2539  
Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

10:30 **Biochemical biomarkers: do they have a role in the diagnosis of SDB?** 2540  
Malcolm Kohler (Zürich, Switzerland)

10:45 **Pathophysiological traits: how to determine in routine polysomnography/polygraphy and translate into clinical decisions?** 2541  
Winfried J. Randerath (Solingen, Germany)

11:00 **Diagnostic approach of excessive daytime sleepiness** 2542  
Maria Rosaria Bonsignore (Palermo, Italy)

11:15 **Discussion and Q&A** 2543  
All Speakers

**Coral 3** **Session 258** **10:15 - 11:45**

**Hot topics: Emerging evidence to improve quality of survival after critical illness**

**How can we best manage the rehabilitation needs of intensive care unit survivors?**

**Aims :** to address issues pertaining to the optimal frequency, modality and timing of early rehabilitation in critically ill patients based on the results of a recent landmark multicentre trial; to discuss the role of respiratory muscle conditioning in improving weaning outcomes and functional recovery of mechanically ventilated patients based on the results of the recent IMPROVE randomised trial; to increase awareness of the complicated and persistent morbidity and resulting rehabilitation needs that follow critical illness, reviewing recent studies on outcomes after critical illness; to provide experts with guidance on how to design a personalised rehabilitation program for intensive care unit survivors.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory critical care

**Method(s) :** General respiratory patient care Pulmonary rehabilitation Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist

**Chairs :** Peter J. Wijkstra (Groningen, Netherlands), Heleen Demeyer (Leuven, Belgium)

10:15 **Lessons from the TEAM trial on early mobilisation of critically ill patients** 2544  
Sabrina Eggmann (Bern, Switzerland)

10:30 **Effectiveness of respiratory muscle training for improving weaning outcomes and functional recovery in mechanically ventilated patients** 2545  
Daniel Langer (Leuven, Belgium)

10:45 **Patient's perspective** 2546  
Inge Gryson (, Belgium)

10:53 **Multidimensional disability after critical illness: implications for rehabilitation** 2547  
MICHELE VITACCA (Lumezzane (Brescia), Italy)

**11:08 How to build a personalised rehabilitation program for intensive care unit survivors?** 2548  
Carolyn Rochester (New Haven, United States)

**11:23 Discussion and Q&A** 2549  
All Speakers

## Coral 1 Session 259 10:15 - 11:45

### Symposium: Exocited: the importance of extracellular vesicles in lung disease

**Aims :** to present leading avenues of investigation that will enhance the participants' understanding of extracellular vesicle research in different lung diseases, their contribution to (patho)physiology and therapeutic strategies employing/targeting extracellular vesicles; to focus on current advances in our knowledge of extracellular vesicles; to discuss how the integration of cutting-edge technologies can help increase understanding of their contribution to lung diseases; to discuss preclinical development of therapeutic strategies harnessing extracellular vesicles as a therapeutic target or biomarker, together with scientific advancements that may direct current and future therapeutic development. to describe proper isolation techniques for extracellular vesicles and the need for associated quality control parameters; to discuss the potential for developing therapies and biomarkers based on extracellular vesicles and opportunities for future studies; to explain the roles of extracellular vesicles in chronic obstructive pulmonary disease, idiopathic pulmonary fibrosis and COVID-19.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Basic science, Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Journalist

**Chairs :** Niki L. Reynaert (Maastricht, Netherlands), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Sara Cuevas Ocaña (Nottingham, United Kingdom)

**10:15 Deciphering extracellular vesicle cargo and its implications for pulmonary fibrosis** 2550  
Olivier Burgy (Dijon, France)

**10:30 Extracellular vesicles as a biomarker in ageing-related lung disease** 2551  
Louise Donnelly (London, United Kingdom)

**10:45 An extracellular vesicle-based vaccine against SARS-CoV-2** 2552  
Kenneth Witwer (Baltimore, United States)

**11:00 Mesenchymal stem cell-derived extracellular vesicles as executors of host cell reprogramming in acute respiratory distress syndrome** 2553  
Anna Krasnodembskaya (Belfast (Belfast), United Kingdom)

**11:15 Discussion and Q&A** 2554  
All Speakers

## Coral 2 Session 260 10:15 - 11:45

### Respiratory medicine meets other disciplines: Acute respiratory infections: what's new?

#### A jointERS/European Scientific Working Group on Influenza (ESWI) session

**Aims :** to provide an update about the latest data on the evolution, epidemiology, pathogenesis, prevention and treatment of influenza, COVID-19 and other respiratory virus infections; to discuss the disease pathogenesis with a focus on systemic and mucosal biomarkers; to discuss strategies to prevent infection by vaccination and management of viral infections.

**Disease(s) :** Respiratory critical care Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Nurse, Respiratory critical care physician, Scientist (basic, translational)

**Chairs :** Albert Osterhaus (Hannover, Germany), Michael Loebinger (London, United Kingdom), Sara Tomassetti (Florence, Italy)

**10:15 The pathogens: worldwide evolution and epidemiology of acute respiratory viruses** 2555  
Collin Russell (Amsterdam, Netherlands)

**10:30 The host response: pathogenesis of disease focusing on systemic and mucosal biomarkers** 2556  
Peter Openshaw (London, United Kingdom)

**10:45 Prevention: strategies to prevent infection by vaccination and other measures** 2557  
Hanna Nohynek (Helsinki, Finland)

11:00	<b>Treatment: should we manage all viral infections like COVID? Proning, continuous positive airway pressure and steroids</b> Maxime Patout (Paris, France)	2558
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11:15	<b>Discussion and Q&amp;A</b> All Speakers	2559
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## Purple Session 261 10:15 - 11:45

### Mini symposium: Rise of the machines: advances in home mechanical ventilation

**Aims :** to describe the advances in home mechanical ventilation that are important for inpatient and outpatient treatment.

**Disease(s) :** Respiratory critical care Sleep and breathing disorders

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Joana Cruz (Leiria, Portugal), Christian Karagiannidis (Cologne, Germany), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

10:15	<b>Advances in physiology of chronic respiratory failure</b> Wolfram Windisch (Cologne, Germany)	2560
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10:30	<b>Do we need new modes of home mechanical ventilation in COPD?</b> Patrick B. Murphy (Oxted (Surrey), United Kingdom)	2561
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10:45	<b>The good, the bad and the ugly of home mechanical ventilation telemonitoring</b> Marieke L. Duiverman (Groningen, Netherlands)	2562
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11:00	<b>Discussion and Q&amp;A</b> All Speakers	2563
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10:30-11:15

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

## ERS Stand/World Village Session 264 10:30 - 11:30

Patient: Coffee and clean air -2

## Amber 1+2 Session 265 10:40 - 13:00

### Skills workshop: SW5 Interpretation of cardiopulmonary exercise tests

Tips and pitfalls in cardiopulmonary exercise testing assessment

**Aims :** to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** William Stringer (Long Beach, United States)

10:40	<b>Introduction</b> All Speakers	2569
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10:40	<b>Relationship between oxygen uptake and work rate</b> Paolo Onorati (Alghero (SS), Italy)	2570
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10:40	<b>Anaerobic/lactate threshold</b> Luis Puente Maestu (Madrid, Spain)	2571
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10:40	<b>Ventilatory efficiency</b> Andrew Ramsook (Rochester, United States)	2572
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10:40 **Breathing pattern and dynamic hyperinflation** 2573  
Pierantonio Laveneziana (Paris, France)

**Amber 3+4** **Session 266** **10:40 - 13:00**

**Skills workshop: SW8 Practicalities of spirometry and whole-body plethysmography**

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist

**Chairs :** Frits M.E. Franssen (Maastricht, Netherlands)

10:40 **Introduction** 2574  
All Speakers

10:40 **Performing spirometry** 2575  
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

10:40 **Standardised static lung volume measurement using whole-body plethysmography** 2576  
Monique Wapenaar - De Korver (Vlaardingen, Netherlands)

10:40 **Measurement of airway resistance and resistance-volume loops using whole-body plethysmography** 2577  
Mart N. van der Plas (Monster, Netherlands)

10:40 **Reporting and interpretation of case studies** 2578  
Gregory King (Sydney (NSW), Australia)

**Red 1+2** **Session 267** **11:00 - 12:15**

**Oral presentation: Novel treatment options for pulmonary fibrosis**

**Disease(s) :** Interstitial lung diseases Sleep and breathing disorders

**Method(s) :** General respiratory patient care Cell and molecular biology Physiology

**Tag(s) :** Clinical, Translational

**Chairs :** Julien Guiot (Liège, Belgium), Elisabetta Renzoni (London, United Kingdom)

OA2579 **Late Breaking Abstract - A KIF15 missense variant is associated with a distinct prognostic clinical phenotype in idiopathic pulmonary fibrosis**  
Mari Ainola (Helsinki, Finland), Maria Hollmén, Atte Laaka, Juulia Partanen, Jukka Koskela, Eva Sutinen, Riitta Kaarteenaho, Marjukka Myllärniemi

OA2580 **Late Breaking Abstract - Efficacy and safety of DANAZOL for pulmonary fibrosis associated with telomere related gene mutation**  
Raphaël Borie (Paris, France), Flore Sicre De Fontbrune, Stéphane Jouneau, Vincent Cottin, Gregoire Prevot, Hilario Nunes, Louis Terriou, Sylvain Marchand-Adam, Bruno Crestani, Anne Bergeron, Ambroise Marcais, Aurelie Plessier, Elodie Lainey, Caroline Kannengiesser, Matthieu Resche-Rigon, The Orphalung Network

OA2581 **A Novel Interleukin-11 Receptor Antibody, LASN01 Is Well Tolerated and Demonstrates Target Engagement in Phase 1**  
Puneet Arora (Redwood City, United States), Jason Lickliter, Barbara Richardson, James Swaney, Toni Jun, Deborah Harris, Jeffrey Hartung, Matias Portela, David King

OA2582 **Nebulised pirfenidone in idiopathic pulmonary fibrosis (IPF): first look at FVC data**  
Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deepthi Nair, Courtney Thompson, Felix Woodhead

OA2583 **Post hoc pooled analyses of open-label and randomized controlled trials of senolytics dasatinib and quercetin in Idiopathic Pulmonary Fibrosis**  
Dean Kellogg (San Antonio, United States), Anoop Nambiar, Jaime Justice, Martin Goros, Jonathan Gelfond, Rodolfo Pascual, Shahrukh Hashmi, Michal Masternak, Larissa Prata, Nathan Lebrasseur, Andrew Limper, Steven Kritchevsky, Nicholas Musi, Tamar Tchkonina, James Kirkland

- OA2584** **Effect of BI 1015550, a preferential PDE4B inhibitor, on gene expression profiles and lung function in IPF**  
Luca Richeldi (Roma, Italy), Janine Roy, Ramona Schmid, Christian Hesslinger, Toby M. Maher
- OA2585** **Safety and efficacy study of ACT001 in IPF and fILD patients**  
Ian Glaspole (Melbourne (VIC), Australia), Dongpo Cai, Dan Chambers
- OA2586** **Treatment of obstructive sleep apnoea in patients with interstitial lung disease improves quality of life and survival**  
Katherine Myall (London, United Kingdom), Alex West, Jennifer Martinovic, Zhe Wu, Toby M Maher, Philip Molyneaux, Eui-Sik Suh, Brian D Kent
- OA2587** **A feasibility, wait-list design randomised controlled trial of a complex breathlessness intervention in idiopathic pulmonary fibrosis (BREEZE-IPF)**  
Dominic Sykes (Hull, United Kingdom), Caroline Wright, Simon P Hart, Victoria Allgar, Anne English, Flavia Swan, Judith Dyson, Gerry Richardson, Maureen Twiddy, Judith Cohen, Andrew Simpson, Chao Huang, Miriam Johnson, Michael G Crooks
- OA2588** **A Randomized, Embedded, Multifactorial Adaptive Platform trial for ILD (REMAP-ILD): The conceptual design**  
Tejaswini Kulkarni (Homewood, United States), Leticia Kawano-Dourado, Kerri Johansson, Sydney Montesi, Pilar Rivera-Ortega, Wendy Adams, Maria Molina, Nazia Chaudhuri, Christopher J. Ryerson, Gary M. Hunninghake, Anne E. Holland, Steven D. Nathan, Lucilla Piccari, Sally Singh, Michael Kreuter, Gisli R. Jenkins
- OA2589** **Discussion and Q&A**  
All Speakers

## Brown 3

## Session 268

11:00 - 12:15

## Oral presentation: Interventional pulmonology: exploring new frontiers

Disease(s) : Thoracic oncology Airway diseases

Method(s) : Endoscopy and interventional pulmonology Pulmonary rehabilitation Surgery

Tag(s) : Clinical

Chairs : Jouke T. Annema (Amsterdam, Netherlands), Michela Bezzi (Brescia, Italy)

- OA2590** **Late Breaking Abstract - Post-removal pneumothorax with and without chest tube clamping in patients with pleural disease: a randomized controlled trial**  
Sebastian Rodriguez Llamazares (Ciudad de México, Mexico), Pablo Olivas Melendez, Ivan Armando Osuna Padilla, Luis Joel Arroyo Hernandez, Maximiliano Diaz Menindez, Fabiana Georgina Muñoz Bastidas, Paulina Velasco Riestra, Esmeralda Gordillo Valdés
- OA2591** **Diagnostic efficacy of cryobiopsy for peripheral pulmonary lesions: a propensity score-matched analysis**  
Hideaki Furuse (Tokyo, Japan), Yuji Matsumoto, Keigo Uchimura, Tatsuya Imabayashi, Takaaki Tsuchida
- OA2592** **Safety and feasibility of the Lung Volume Reduction Reverser System (LVR-R) in patients with severe emphysema: preliminary results after 1 year follow up**  
Susanne Dittrich (Heidelberg, Germany), Franziska Trudzinski, Judith Brock, Claus Peter Heussel, Ralf Eberhardt, Felix J Herth, Konstantina Kontogianni
- OA2593** **Bronchoscopic Thermal Vapor Ablation (BTVA) in patients with severe upper lobe predominant emphysema: 36 months follow-up results from a prospective registry**  
Konstantina Kontogianni (Heidelberg, Germany), Arschang Valipour, Stephan Eisenmann, Joachim H. Ficker, Daniel P. Franzen, Wolfgang Gesierich, Christian Grah, Martin Hetzel, Peter Hammerl, Felix J. Herth, Kaid Darwiche
- OA2594** **Bronchial Rheoplasty for Chronic Bronchitis: 6-Month Results from the European Registry Study**  
Judith Brock (Heidelberg, Germany), Felix Herth, Kaid Darwiche, Ralf-Harto Hübner, Dirk Skowasch, Björn Schwick, Wolfgang Gesierich, Christian Schumann, Arschang Valipour
- OA2595** **Lung volume reduction with one-way valves in patients with a very low FEV1: Assessment of efficacy and safety up to 6 months with results from the German Lung emphysema registry (LE-R)**  
Thomas Sgarbossa (Berlin, Germany), Franz Stanzel, Angelique Holland, Christian Grah, Wolfgang Gesierich, Andreas Gebhardt, Joachim Ficker, Stephan Eggeling, Stefan Andreas, Bernd Schmidt, Stephan Eisenmann, Björn Schwick, Karl-Josef Franke, Andreas Fertl, Ralf-Harto Hübner
- OA2596** **Treatable traits in advanced emphysema patients eligible for bronchoscopic lung volume reduction**  
Rein Posthuma (Maastricht, Netherlands), Marieke C. Van Der Molen, Jorine E. Hartman, Martijn A. Spruit, Dirk-Jan Slebos, Lowie E.G.W. Vanfleteren, Anouk W. Vaes
- OA2597** **First European Results: Shape-Sensing Robotic Assisted Bronchoscopy for Biopsy of Peripheral Lung Nodules**  
Judith Brock (Heidelberg, Germany), Susanne Dittrich, Konstantina Kontogianni, Mavi Schellenberg, Claus-Peter Heussel, Laura Klotz, Hauke Winter, Felix Herth

- OA2598** **A multi-center, prospective study of transbronchial radiofrequency ablation for peripheral lung tumors: study progress and initial results**  
Shi-Yue Li (Guangzhou, China), Chang-Hao Zhong, Jia-Yuan Sun, Zhu-Quan Su, En-Guo Chen, Di-Fei Chen, Feng Wang, Xiao-Ping Wang, Guang-Nan Liu, Xiao-Ju Zhang, Feng-Ming Luo, Nan Zhang, Hong-Wu Wang, Long-Yu Jin, Fa Long, Chun-Fang Liu, Shi-Man Wu, Qing Geng, Xiang Wang, Chun-Li Tang, Felix Herth
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- OA2599** **Diagnostic Yield of Shape Sensing Robotic-Assisted Bronchoscopy for Pulmonary Nodules Less than 2cm Pre and Post-3D Fluoroscopy**  
David Abia-Trujillo (St Johns, United States), Alejandra Yu Lee-Mateus, Alanna Barrios-Ruiz, Fabiana Diaz-Churion, Neal M. Patel, Britney N. Hazelett, Ryan M. Chadha, Sebastian Fernandez-Bussy
- 
- OA2600** **Discussion and Q&A**  
All Speakers

Brown 1+2

Session 269

11:00 - 12:15

**Oral presentation: New mechanisms and novel insights in chronic obstructive pulmonary disease and chronic cough**Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology General respiratory patient care Physiology Imaging Epidemiology Public health Pulmonary rehabilitation

Tag(s) : Clinical, Translational

Chairs : Alexander Mathioudakis (Stockport, United Kingdom), Lies Lahousse (Ghent, Belgium)

- OA2601** **Late Breaking Abstract - A first-in-human study of ARO-RAGE, an RNAi therapy designed to silence pulmonary RAGE expression**  
Mark O'Carroll (Auckland, New Zealand), John Huetsch, James Hamilton, Lindsey Moser, Sudar Alagarsamy, Matthias Salathe
- 
- OA2602** **Inhaled Ensifentrine, decreased healthcare research utilization and reduced moderate exacerbation rate and risk in COPD over 24 Weeks**  
Henrik Watz (Großhansdorf, Germany), Tara Rheault, Thomas Bengtsson, Kathleen Rickard
- 
- OA2603** **Vitamin K status is associated with CT-quantified emphysema severity: results from COSYCONET**  
Ilanthe Piscaer (Maastricht, Netherlands), Rob Janssen, Robert Bals, Jürgen Biederer, Christian Herr, Rudolf Jörres, Leon Schurgers, Claus Vogelmeier, Emiel Wouters, Peter Alter, Frits Franssen
- 
- OA2604** **The effect of different inhaled corticosteroids on airway bacterial load and the microbiome in COPD: a randomized controlled trial**  
Hollian Richardson (Dundee, United Kingdom), Holly R Keir, Clare Clarke, Daniela Alferes De Lima, Abirami Veluchamy, Petra Rauchhaus, Thomas Pembroke, Megan Crichton, Jennifer Pollock, Simon Finch, Alison J Dicker, Pauline Billingham, Furrh Hussain, Margaret Band, Andrew Smith, Manish Patel, Mohammad Paracha, Gourab Choudhury, Devsh Dhasmana, Rekha Chaudhuri, Philip M Short, James D Chalmers
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- OA2605** **Oral corticosteroid use and sarcopenia-related traits in older people with chronic airway disease.**  
Lies Lahousse (Ghent, Belgium), Elizabeth Benz, Johnmary Arinze, Sara Wijnant, Maria De Ridder, Fernando Rivadeneira, Guy Brusselle, Bruno Stricker
- 
- OA2606** **Lifestyle interventions to reduce particulate matter exposure in patients with COPD**  
Jieun Kang (Goyang, Republic of Korea), Ji Ye Jung, Hyun Woo Ji, Hwan-Cheol Kim, Sei Won Lee
- 
- OA2607** **Blood eosinophil counts in younger smokers from the Early COPD Development Partnership**  
Augusta Beech (Manchester, United Kingdom), Andrew Ritchie, Andras Bikov, Gavin C Donaldson, Luana Alves-Moreira, Peter Calverley, Jørgen Vestbo, Jadwiga A Wedzicha, Dave Singh
- 
- OA2608** **Blood eosinophil count (BEC) measured before starting inhaled corticosteroids (ICS) is better associated with treatment response to ICS in COPD.**  
Alexander Mathioudakis (Stockport, United Kingdom), Sebastian Bate, Pradeesh Sivapalan, Jens-Ulrik Jensen, Dave Singh, Jørgen Vestbo
- 
- OA2609** **Improvements in Leicester Cough Questionnaire Subdomains in a Phase 2b Trial of Camlipixant in Refractory Chronic Cough**  
Surinder S. Biring (London, United Kingdom), Jaclyn Smith, Alyn Morice, James Hull, Mandel Sher, Sylvain Lanouette, Ronghua Yang, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli
- 
- OA2610** **Gefapixant efficacy and safety in participants with history of refractory or unexplained chronic cough for  $\geq 1$  vs  $< 1$  year**  
Imran Satia (Hamilton, Canada), Surinder S. Biring, Lorcan Mcgarvey, Jaclyn A. Smith, Susan Lu, Allison Martin Nguyen, Jin Xu, Paul Reyfman, Eduardo Urdaneta, George Philip, Carmen La Rosa

OA2611 **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 270

11:00 - 12:15

Oral presentation: **Best abstracts in respiratory physiotherapy**

**Disease(s)** : [Interstitial lung diseases](#) [Airway diseases](#) [Respiratory critical care](#) [Sleep and breathing disorders](#)

**Method(s)** : General respiratory patient care Pulmonary rehabilitation Respiratory intensive care Physiology

**Tag(s)** : Clinical

**Chairs** : Martijn A. Spruit (Horn, Netherlands), Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

OA2612 **Late Breaking Abstract - Contributing factors of fatigue in COPD: results from the FANTASTIGUE study**  
Maarten Van Herck (Horn, Netherlands), Yvonne M. J. Göertz, Zjale Ebadi, Chris Burtin, Jeannette B. Peters, Melissa S. Y. Thong, Jean W. M. Muris, Emiel F. M. Wouters, Judith Prins, Mirjam A. G. Sprangers, Jan H. Vercoulen, Daisy J. A. Janssen, Martijn A. Spruit

OA2613 **Longtime follow-up on exercise capacity and quality of life in people with Cystic Fibrosis receiving Elexacaftor, Tezacaftor and Ivacaftor – a Copenhagen cohorte**  
Lue Katrine Drasbæk Philipsen (copenhagen, Denmark)

OA2614 **Effects of core stabilization exercises on respiratory muscle strength in children with cystic fibrosis**  
Kübra Kılıç (Ankara, Turkey), Naciye Vardar-Yagli, Deniz Dogru, Melda Saglam, Ebru Calik-Kutukcu, Nagehan Emiralioglu, Ebru Yalcin, Ugur Ozcelik, Nural Kiper, Deniz Inal-Ince

OA2615 **Inspiratory muscle training for dyspnea management in people with unilateral diaphragm dysfunction**  
Michele Schaeffer (Leuven, Belgium), Zafeiris Louvaris, Antenor Rodrigues, Diego Poddighe, Ghislaine Gayan-Ramirez, Tin Gojevic, Linde Geerts, Elise Heyndrickx, Marine Van Hollebeke, Luc Janssens, Rik Gosselink, Dries Testelmans, Daniel Langer

OA2616 **Comparison of respiratory muscle activations in different dyspnea reduction positions in individuals with COPD**  
Ceyhun TOPCUOGLU (ANKARA, Turkey), Eylem Tütün Yümin, Melda Sağlam, Tamer Çankaya, Suat Konuk, Emine Özsarı, Merve Başol Gökşülük

OA2617 **Exertional Desaturation During the 6-Minute Walking Test Versus Daily Life in People with Fibrotic Interstitial Lung Disease**  
Mariana Hoffman (Melbourne (VIC), Australia), Nick Wong, Angela T. Burge, Anne E. Holland

OA2618 **Heart rate and oxygen consumption post-exercise recovery kinetics before and after eight weeks of resistance training in people with COPD versus matched controls**  
Andre Nyberg (Umeå, Sweden), Joren Buekers, Jana De Brandt, Lori Desroches, Didier Saey, Mickael Martin, Francois Maltais

OA2619 **Effects of pulmonary rehabilitation during acute exacerbations of COPD**  
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Cíntia Dias, António Pedro Gonçalves, Chris Burtin, Alda Marques

OA2620 **Effects of intrapulmonary percussive ventilation in critical care patients: A randomised controlled trial**  
Anwar Hassan (Glenmore Park, Australia), Fiona Fitzsimons, Deepa Shetty, Richard Evans, Jennifer Alison, Stephen Huang, Maree Milross

OA2621 **Paediatric MI-E therapy; three treatment strategies' impact on comfort and cough flows**  
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Cathrine Brunborg, Ingvild Bruun Mikalsen, Maria Vollsæter, Vegard Hovland

OA2622 **Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 271

11:00 - 12:15

Oral presentation: **Innovations in pulmonology**

**Disease(s)** : [Airway diseases](#) [Respiratory critical care](#) [Interstitial lung diseases](#)

**Method(s)** : Cell and molecular biology Imaging Physiology

**Tag(s)** : Basic science, Translational

**Chairs** : Nahal Mansouri (Lausanne, Switzerland), Raquel Guillamat Prats (Badalona, Spain)



- OA2623 Late Breaking Abstract - Claudin-1 is a potential airway-centric therapeutic target for pulmonary fibrosis**  
Geoffrey Teixeira (Allschwil, Switzerland), Emanuela Elsa Cortesi, Vincent Anquetil, Elisa Polini, Sven Blüme, Hussein El Saghire, Laurent Maily, Thomas Baumert, Antje Prasse, Alberto Toso, Markus Meyer, Stephen Toovey, Luigi Manenti, Roberto Iacone, Frauke Christ, Bart Vanaudenaerde, Marianne Carlon, Wim Wuyts
- OA2624 Spatiotemporal analysis of inflammaging and senescence programs in lung fibrosis using time-resolved single-cell transcriptomics and multiplexed immunofluorescence**  
Janine Gote-Schniering (Bern, Switzerland), Janine Gote-Schniering, Mareike Lehmann, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steinchen, R. Christoph Jentzsch, Christoph Mayr, Yuexin Chen, Niklas Lang, Ahmed Agami, Ilias Angelidis, Shuhong Zhou, Melanie Königshoff, Fabian Theis, Herbert Schiller
- OA2625 Modelling the support function of vascularized lung endothelial cells for alveolar progenitor function using an alveolus-on-chip**  
Abilash Ravi (Leiden, Netherlands), Tarek Gensheimer, Xinhui Wu, Jill R. Johnson, Martin C. Harmsen, Reinoud Gosens, Pieter S. Hiemstra, Andries D. Van Der Meer, Anne M. Van Der Does
- OA2626 A spatially resolved extracellular matrix proteome atlas of the distal human lung**  
Yuexin Chen (München, Germany), Janine Gote-Schniering, Michaela Müller, Pascal Albanese, Andris Jankevics, R. Christoph Jentzsch, Aleksandra Tata, Meshal Ansari, Laurens De Sadeleer, Lin Yang, Lukas Heumos, Ahmed Agami, Shuhong Zhou, Christoph H. Mayr, Rudolf Hatz, Christian P. Schneider, Jürgen Behr, Anne Hilgendorff, Ali Oender Yildirim, Mircea-Gabriel Stoleriu, Peter Dorfmueller, Fabian J. Theis, Purushothama Rao Tata, Malte D. Luecken, Richard A. Scheltema, Herbert B. Schiller
- OA2627 Single cell spatial analysis of lungs from patients with fatal COVID-19 reveals a cellular network marked by inflammatory foci of immature neutrophil and CD8 T cells localised to alveolar progenitor cells**  
Ling-Pei Ho (Oxford (Oxfordshire), United Kingdom), Praveen Weeratunga, Laura Denney, Joshua Bull, Emmanouela Repapi, Martin Sergeant, Chaitanya Vuppasetty, C Cosmic Consortium, Helen Byrne, Stephen Taylor
- OA2628 Pulmonary acute lung injury causes behavioral changes, oxidative stress imbalance, and reduced brain nicotinic receptors expression**  
Stephanie Nonato de Castro (Santos, Brazil), Priscila S Barbosa, Vitoria C De Queiroz, Nathalia M Pinheiro- Menegasso, Beatriz M Fujihara, José Ivo A Beserra, Ana Cláudia Custódio, Iolanda De Fátima Lc Tibério, Rodrigo P Ureshino, Rafael H Lambertucci, Ayman K Hamouda, Roberta Ss Yamaguchi, Alessandra M Ribeiro, Carla M Prado
- OA2629 Pulmonary endothelial cells support human alveolar epithelial repair and regeneration**  
Abilash Ravi (Leiden, Netherlands), Britte F. Van Der Vliet, Xinhui Wu, Anne M. Van Der Does, Andries D. Van Der Meer, Jill R. Johnson, Martin C. Harmsen, Reinoud Gosens, Pieter S. Hiemstra
- OA2630 Humanized mouse lung can be infected by SARS-CoV-2**  
Wei Zuo (Shanghai, China), Yueqing Zhou, Yuanfei Zhu, Gaowei Hu, Shujuan Du, Yu Zhao, Qiao Wang, Qiang Deng
- OA2631 Combined treatments promoting the functional integrity of cystic fibrosis airway epithelia**  
Emmanuelle Brochiero (Montréal (QC), Canada), Damien Adam, Sarah Moustadraf, Benjamin Orcese, Émilie Maillé, Manon Ruffin, Geoffrey Mckay, Guillaume Millette, François Malouin, Christelle Coraux, Dao Nguyen
- OA2632 Elementary, my lung fibrosis: unravelling elemental aspects in IPF pathology**  
Bryan Falcones (Malmö, Sweden), Maik Kahnt, Barbora Michalíková, Ulf Johansson, Linda Elowsson, Karina Thånell, Gunilla Westergren-Thorsson
- OA2633 Discussion and Q&A**  
All Speakers

Studio (White)

Session 272

11:15 - 12:45

**Online skills lab: Oscillometry and spirometry**

**Aims :** to demonstrate the measurement of lung function with simple (handheld) and/or professional spirometers, including how to prepare the equipment and perform an optimal test; to demonstrate forced oscillometry measurements and to highlight techniques that ensure accuracy; to discuss the interpretation of results, the clinical relevance of measurements and the advantages/disadvantages of the two techniques. All this will be achieved with live demonstrations, case studies of adults and children and interactive questions/discussion.

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Respiratory physiotherapist, Physiologist, Nurse, Respiratory therapist, Medical Technical Assistant

**Chairs :** Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)

- |              |  |             |
|--------------|--|-------------|
| <b>11:15</b> | <b>Introduction</b><br>Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands)              | <b>2634</b> |
| <b>11:20</b> | <b>Spirometry procedure</b><br>Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands) | <b>2635</b> |

11:30 **Oscillometry procedure** 2636  
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)

11:50 **Case discussion (Spirometry paediatric, adult, oscillometry)** 2637  
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands), Chung-Wai Chow (Toronto (ON), Canada)

12:15-13:15

INDUSTRY LUNCHTIME SYMPOSIUM

SEE PAGE 1

PS-1 in poster area

Session 282

12:30 - 14:00

Poster session: **Advances in telemonitoring/telerehabilitation and post-COVID conditions**Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Epidemiology General respiratory patient care Public health Pulmonary rehabilitation Physiology

Tag(s) : Clinical

Chairs : Heleen Demeyer (Leuven, Belgium), anne-marie Russell (Holford / Somerset, United Kingdom)

PA2681 **Frailty during 1 year after hospitalisation for COVID-19: risk factors and outcomes from the PHOSP-COVID study**  
Hamish Mcauley (Leicester, United Kingdom), Rachael A Evans, Charlotte E Bolton, Christopher E Brightling, Omer Elneima, Paul L Greenhaff, William D-C Man, Matthew Richardson, Sally J Singh, Michael Steiner, Louise V Wain, Miles D Witham, Janet Lord, Neil J Greening

PA2682 **Late Breaking Abstract - Dynamic hyperinflation and ventilatory reserve in long COVID: a cross-sectional study**  
Isabela Aziz (Niteroi, Brazil), Isabela Serpa, Jessica Oliveira, Renan Campos, Thiago Mafor, Aginaldo Lopes

PA2683 **Activity limitations and healthcare use in people with long COVID-19**  
Rodrigo Torres Castro (Barcelona, Spain), Diana C Sanchez-Ramirez, Adriana Angarita-Fonseca, Vicente Andres Benavides Cordoba, Santiago Larrateguy, Santos Chero, Bricia Hernandez Lopez, Rafael Salazar, Mauricio Morales Satan

PA2684 **Six-month outcomes following comprehensive pulmonary rehabilitation post-COVID-19 infection**  
Nurasyikin Kamarudin (Limerick, Ireland), Philip Tonge, Nicola Jackson, Sarah O'Beirne

PA2685 **Pulmonary telerehabilitation in patients after severe COVID-19: comparison between fully remote versus hybrid supervision**  
Bruna Scharlack Vian (Campinas, Brazil), Ana Lúcia Cavallaro Baraúna Lima, Laís Bacchin De Oliveira, Luciana Castilho De Figueirêdo, Hugo Ceccato, Julian Silva, Pedro Maximink Esteves Villar, Evelyn Regina Couto, Paulo Roberto Araujo Mendes, Lucieni De Oliveira Conterno, Mariângela Ribeiro Resende, Lígia Roceto Ratti, Mônica Corso Pereira

PA2686 **Quadriceps weakness pre- and post-COVID-19 rehabilitation: associations with exercise capacity and quality of life**  
George Mills (Leicester, United Kingdom), Linzy Houchen-Wolloff, Sally Singh, Samuel Briggs-Price, Enya Daynes

PA2687 **The feasibility, safety, and repeatability, of the incremental shuttle walk test in post-COVID survivors**  
Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group

PA2688 **The clinical outcome of patients with post Covid-19 condition who underwent pulmonary telerehabilitation in Lung Center of the Philippines**  
Nichol John Aliac (Manila, Philippines), Angelica Joy Arafag, Glynn Ong-Cabrera

PA2689 **Effect of tele-rehabilitation program with weekly monitoring in post COVID-19 pneumonia patients**  
Wutthichai Sae Chen (Bangkok, Thailand), Chalermdej Prapinpaioj, Timporn Vitoonpong, Worawan Sirichana, Amornpun Wongkamjana

PA2690 **Can further positive effects be expected from the addition of two to three months of post-COVID rehabilitation in a day hospital+hospital? Monitoring of exercise stress parameters.**  
Janos Tamas Varga (Budapest, Hungary), Dora Kolozsvari, Renata Pinter, Katica Anna Kup, Zsafia Szarvas, Monika Fekete, Zsuzsanna Kovats, Gabor Horvath, Veronika Muller

PA2691 **Understand the role of Breathing Pattern Disorder in adults with and without breathlessness after hospitalisation with COVID-19**  
Saja Almulhim (Leicester, United Kingdom), Mark Orme, Enya Daynes, Majda Bakali, Sally J Singh, Rachael A Evans

PA2692 **Pulmonary rehabilitation (PR) and movement behaviours: How are we measuring up?**  
Mark Orme (Leicester, United Kingdom), James Manifield, Yousuf Chaudhry, Sally J Singh, Tom Ward, Maxine E Whelan

- PA2693** **Exploring the characteristics of people with long COVID-19 and their associated healthcare use in Latin America**  
Rodrigo Torres Castro (Barcelona, Spain), Diana C Sanchez-Ramirez, Adriana Angarita-Fonseca, Vicente Andres Benavides Cordoba, Santiago Larrateguy, Santos Chero, Bricia Hernandez Lopez, Rafael Salazar, Mauricio Morales Satan
- PA2694** **The prevalence of exertional desaturation 5 months post-hospital discharge for COVID-19**  
Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group
- PA2695** **Smartphone application-based rehabilitation in patients with chronic respiratory and cardiovascular diseases**  
Chiwook Chung (Seoul, Republic of Korea), Ah-Ram Kim, Il-Young Jang, Min-Woo Jo, Seongho Lee, Dongbum Kim, Hee Kwon, Do-Yoon Kang, Sei Won Lee
- PA2696** **Unsupervised physical capacity testing at home: a systematic review**  
Debbie de Graaf (Nijmegen, Netherlands), Stella Thissen, Alex Van 'T Hul, Nienke De Vries, Bastiaan Bloem
- PA2697** **Monitoring of Long COVID symptoms using Digitalised C19-YRS in patients attending LC Rehabilitation Clinic in Manchester, UK**  
Hsu Myat Noe (Manchester, United Kingdom), Kay Richardson, Harmeet Momi, Christopher Dalton, Clare Gibbons, David Lamb, Sarah Clarke, Sheila Ramjug, Nawar Bakerly
- PA2698** **Qualitative evaluation of culturally adapted pulmonary rehabilitation (PR) for people with post-tuberculosis lung disease (pTBLD) in Kyrgyz Republic**  
Gulzada Mirzalieva (Bishkek, Kyrgyzstan), Maamed Mademilov, Mark Orme, Azamat Akyzbekov, Aijan Taalaibekova, Aigul Ozonova, Nurdin Shakiev, Syimyk Azizbekov, Azat Bolotbek U., Amy Barradell, Dominic Malcolm, Talant Sooronbaev, Sally Singh
- PA2699** **Home-based pulmonary rehabilitation in ILD patients- all is not gold**  
Rishabh Kochar (Bikaner (Rajasthan), India), Naveen Dutt, Nishant Chauhan, Ravi Gaur, Mukesh Swami
- PA2700** **Physical capacity and fatigue in patients who acquired COVID-19 in the workplace 6 months after rehabilitation: a longitudinal study**  
Katrin Mueller (Chemnitz, Germany), Marcel Ottiger, Iris Poppele, Alois Wastlhuber, Franziska Ortwein, Michael Stegbauer, Torsten Schlesinger

## PS-10 in poster area

## Session 283

12:30 - 14:00

## Poster session: Translational model in chronic airway disease

Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology Pulmonary function testing Physiology General respiratory patient care Imaging

Tag(s) : Translational

Chairs : Philip Hansbro (Sydney, Australia), Lucia Cestelli (Bergen, Norway)

- PA2701** **FUT2 homozygous nonsense mutation is associated with increased future risks and airway microbial network disturbance in COPD**  
Longyi Du (Chengdu, China, China), Juanjuan Fu, Wei Xiao, Bin Mao, Meilu Liu, Xu-Gui Chen, Yan Yu
- PA2702** **Lung stiffness affects the response to methacholine in two strains of mice**  
Andres Bruno Rojas Ruiz (Quebec, Canada), Andrés Rojas-Ruiz, Magali Boucher, Percival Graham, Liah Fereydoonad, Ynuk Bossé
- PA2703** **Extracellular matrix degradation products in serum of patients with chronic airway disease**  
Anna Schnell (Bern, Switzerland), Stefanie Graeter, Moritz Saxenhofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Stewart, Andrew Mckenzie, Ilka Schulze, Alexander Schaub
- PA2704** **Human Upper Respiratory Tract Microbiome and Epithelium Interactions**  
Pooja Narang (Sydney, Australia), Mehra Haghi, Catherine Burke, Brian Oliver
- PA2705** **CYP2R1 gene polymorphisms (rs10741657) in Japanese patients with COPD and bronchial asthma.**  
Kazuhiro Tada (Koshigaya, Saitama, Japan), Kenya Koyama, Akemi Koyama, Shyuzo Abe, Tomoki Hasegawa, Junya Sato, Atsutaka Ozaki, Kozo Sato, Hajime Arifuku, Hiroyoshi Watanabe, Hideyuki Satoh, Hirokuni Hirata, Yasutsugu Fukushima
- PA2706** **CYP2R1 gene polymorphisms (rs12794714) in Japanese patients with COPD and bronchial asthma.**  
Tomomi Takahashi (Koshigaya, Saitama, Japan), Kenya Koyama, Akemi Koyama, Shyuzo Abe, Hayase Azuma, Yukari Ito, Takayuki Kobayashi, Naotatsu Otsuji, Kei Sugitate, Hiroyoshi Watanabe, Hideyuki Satoh, Takayoshi Owada, Yasutsugu Fukushima
- PA2707** **Clinical relevance of mutations in the Serpin 1 gene in patients without severe alpha-1 antitrypsin deficiency.**  
Eduardo Jose Laviña Soriano (Guadalajara, Spain), Lara Bravo Quiroga, José Luis Izquierdo Alonso, José Miguel Rodríguez González-Moro

- PA2708 Extracellular vesicles from PBDE-47 treated M(LPS) THP-1 macrophages modulate gene expression in ALI culture of airway epithelium.**  
Mirella Profita (Palermo (PA), Italy), Giusy Daniela Albano, Valeria Longo, Angela Marina Montalbano, Noemi Alongi, Paolo Colombo
- PA2709 The role of the non-coding RNA in COPD**  
Jinkyong Park (Seoul, Republic of Korea), Minseok Seo, Woo Jin Kim, Ji Ye Jung, Cheon Woong Choi
- PA2710 Computational fluid dynamics analysis of small airway deformation in COPD**  
Yousry Khaled Mohamed Elmahdy Mohamady (Leuven, Belgium), Vincent Geudens, Charlotte De Fays, Iwein Gyselinck, Lucia Aversa, Pieter Jan Kerckhof, Gitte Aerts, Astrid Vermaut, Hanne Beeckmans, Karen Maes, Lynn Willems, Marie Vermant, John McDonough, Laurent Godinas, Rozenn Quareck, Wim Wuyts, Robin Vos, Laurens Ceulemans, Dirk Van Raemdonck, Ghislaine Ramirez, Wim Janssens, Marcel Filoche, Bart Vanaudenaerde
- PA2712 A survey of patient engagement in primary ciliary dyskinesia**  
Connie Webster (Leeds, United Kingdom), Emma Farrell, Niccola Burke, Giulia Spoletini, Daniel Peckham
- PA2713 Fractional dynamics deep learning approach for diagnosing COPD stages**  
Stefan Mihaicuta (Timisoara (Timis), Romania), Chenzhong Yin, Mihai Udrescu, Gaurav Gupta, Mingxi Cheng, Lucretia Udrescu, David M. Mannino, Andrei Lihu, Hantang Zhang, Paul Bogdan
- PA2714 Metabolic syndrome and lung function – pilot study LungMetS**  
Andreea Mihai (craiova, Romania), Cristina Calarasu, Laurentiu Buican, Marius Matei, Costin-Teodor Streba, Victor Ionel Grecu, Mihaela Ionela Vladu
- PA2715 COPD as a trigger for the development of thromboses in patients with defects in the genes predisposing to thrombosis**  
Elnorahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko
- PA2716 Spirometry network: a program for the future**  
Mariana Cardoso Tavares (Guarda, Portugal), Filipa Fernandes, Élin Almeida, Filipa Jesus, Fernando Silva, Joana Ribeiro, Sara Braga, Luís Ferreira
- PA2717 The role of DRD2 ubiquitination in macrophage polarization**  
Tao Fan (Chengdu (Sichuan), China), Yan Lv
- PA2718 Alpha 1 antitrypsin deficiency in severe asthma patients**  
Martina Zappa (Tradate, Italy), Patrizia Pignatti, Sarah Grossi, Francesco Ardesi, Rosella Centis, Elisabetta Zampogna, Laura Saderi, Giovanni Sotgiu, Antonio Spanevello, Dina Visca
- PA2719 Gene mutations and clinical manifestations of alpha-1 antitrypsin deficiency in Czech patients – a pilot study**  
Eva Volakova (Olomouc 9, Czech Republic), Jana Petrková, Lenka Kocourkova, Jaromir Zatloukal, Petr Jakubec, Martin Petrek
- PA2720 Late Breaking Abstract - Changes in surfactant lipid-composition in allergic asthma in- and outside birch-pollen season**  
Anna-Carin Olin (Göteborg, Sweden), Susanna Lohman Haga, Per Larsson, Spela Kokelj, Linus Schiöler, Per Larson, Spela Kokelj, Linus Schiöler

PS-11 in poster area

Session 284

12:30 - 14:00

Poster session: Paediatric viral and bacterial lung infections

Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology Imaging

Tag(s) : Clinical

Chairs : Marijke Proesmans (Leuven, Belgium), Livia Elena Cumanasu (Pucioasa, Romania)

- PA2721 An urbanized metabolic and airway immune profile increases the risk of infections in early childhood**  
Nicklas Brustad (Gentofte, Denmark), Jonathan Thorsen, Mina Ali, Casper-Emil Pedersen, Julie Kyvsgaard, Jenni Lehtimäki, Jakob Stokholm, Klaus Bønnelykke, Bo Chawes

- PA2722 Environmental risk factors for respiratory infection and wheeze in early childhood: a multi-centre cohort study**  
Tom Ruffles (hove, United Kingdom), Sarah Inglis, Anjum Memon, Paul Seddon, Kaninika Basu, Stephen Bremner, Heike Rabe, Roger Tavendale, Colin Palmer, Somnath Mukhopadhyay, Katy Fidler

- PA2723** **A prospective study of community-acquired lower respiratory tract infections during the first year of premature newborns**  
Asiah Kassim (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Eunice Gui Yu Lee, N Fafwati Faridatul Akmar Mohamad, Shangari Kunaseelan, Yi Cheau Chua, Yee Yen Tan, Sze Chiang Lui, Maria Kamal, Lai Cheng Hooi, Hui Ling Leong, Sin Toun Loh, Ker Yang Chua, Farah Inaz Syed Abdullah, Farizah Mohd Hairi, Hafizah Zainuddin, Karuthan Chinna, Siew Hong Neoh
- 
- PA2724** **Genotypic diversity and immune dysregulation in children with HRA(rhinovirus) infections \_\_ PRESENT**  
**PRESENT**  
Adnan Zafar (Rawalpindi, Pakistan), Bandar Alosaimi, Asif Naeem
- 
- PA2725** **The airway epithelium respiratory illnesses and allergy (AERIAL) birth cohort: viral exposure data within the first year of life**  
David Hancock (Nedlands, Australia), Stephen Stick, Elizabeth Starceovich
- 
- PA2726** **Air pollutants exposure and risk of hospitalization due to RSV in Polish children**  
Artur Badyda (Warszawa, Poland), August Wrotek, Piotr Dąbrowiecki, Piotr Oskar Czechowski, Tomasz Owczarek, Teresa Jackowska
- 
- PA2727** **Passive maternal anti-RSV immunization is influenced by the season of birth**  
Maria Giulia Conti (Roma, Italy), Leonardo Sorrentino, Lucia Lelli, Giorgio Fravolini, Eleonora Cresta, Laura Petrarca, Enrica Mancino, Elio Iovine, Domenico La Regina, Fabrizio Virgili, Alessandra Pierangeli, Enea Bonci, Raffaella Nenna, Fabio Midulla
- 
- PA2728** **Role and Diagnostic Performance of Host Epigenome in Respiratory Morbidity after RSV Infection**  
Sara Pischedda (Santiago de Compostela, Spain), Irene Rivero-Calle, Alberto Gómez-Carballe, Miriam Cebey-López, Ruth Barral-Arca, Jose Gómez-Rial, Jacobo Pardo-Seco, María José Curras-Tuala, Sandra Viz-Lasheras, Ana Belen Crujeiras, Angel Diaz-Lagares, Federico Martínón-Torres, Antonio Salas
- 
- PA2729** **Monocyte-to-lymphocyte ratio and neutrophil-to-lymphocyte ratio as biomarkers for severity in hospitalized children with RSV bronchiolitis**  
Inbal Golan-Tripto (Beer sheva, Israel), Nitzan Burrack, Assaf Adar, Aviv Goldbart, Sarah Weissmann, Bracha Cohen, Itai Hazan, Amir Horev
- 
- PA2730** **Midlands empyema in paediatrics: A UK multicentre retrospective case series review**  
Nicola Rowbotham (Nottingham (Nottinghamshire), United Kingdom), Anna Harris, Hetal Patel, Caroline Poulter, Heleanne Vankuijk, Kamini Jain, Manisha Ramphul, Francis Gilchrist, Benjamin Davies, Andrew Prayle
- 
- PA2731** **Evaluation of pulmonary function tests and predictors in necrotizing pneumonia**  
Zeynep Reyhan Onay (Istanbul, Turkey), begum yoruk, Sinem Can Oksay, Seyda Karabulut, Ebru Kostereli, Huseyin Arslan, Selma Nur Pirim, Gulay Bilgin, Deniz Mavi Tortop, Yasemin Gokdemir, Ela Erdem Eralp, Zeynep Seda Uyan, Ayse Ayzit Kiliç, Velat Sen, Ali Özdemir, Sedat Oktem, Erkan Cakır, Saniye Girit
- 
- PA2732** **Distinction Between Hemoptysis and Pseudo-hemoptysis; Cross-Sectional Retrospective Study**  
Sinem Can Oksay (İstanbul, Turkey), Yasemin Mocan Çağlar, Gülay Bilgin, Zeynep Reyhan Onay, Deniz Mavi Tortop, Begüm Yörük, Özge Ülgen, Saniye Girit
- 
- PA2733** **How do SARS-CoV-2 pandemic measures influence prevalence of respiratory viruses in healthy infants?**  
Ruth Steinberg (Bern, Switzerland), Simone Troxler, Anne-Christianne Kentgens, Léa Ho Dac, Marion Curdy, Sophie Yammine, Philipp Agyeman, Pascal Bittel, Philipp Latzin, Insa Korten, Bild Bild Study
- 
- PA2734** **Spike specific salivary IgA2 is not induced or boosted by BNT162b2 vaccine in children**  
Maria Giulia Conti (Roma, Italy), Eva Piano Mortari, Raffaella Nenna, Alessandra Pierangeli, Leonardo Sorrentino, Fedreica Frasca, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Luigi Matera, Matteo Fracella, Carolina Scagnolari, Rita Carsetti, Fabio Midulla
- 
- PA2735** **Exercise capacity is preserved in children six months after COVID-19 infection.**  
Cinzia Ferrero (Nichelino (TO), Italy), Marco Denina, Lorenzo Appendini, Elisabetta Bignamini, Lucia Ronco, Silvia Garazzino
- 
- PA2736** **Prospective evaluation of lung function in children with history of neonatal COVID-19 infection: preliminary data.**  
Stefano Nobile (Rome, Italy), Paola Catalano, Simonetta Costa, Maria Di Chiara, Benedetta De Santis, Gianluca Terrin, Roberto Chioma, Francesca Gallini, Giovanni Vento
- 
- PA2737** **Pulmonary evaluation in children with Long-COVID**  
Paola Di Filippo (Chieti (CH), Italy), Francesco Sansone, Laura Sgrazzutti, Sabrina Di Pillo, Francesco Chiarelli, Marina Attanasi

**Late Breaking Abstract - A living network meta-analysis comparing modalities in the management of pediatric empyema**

PA2738 Clara Fernández elviro (Lausanne, Switzerland), Bryn Longcroft-Harris, Emily Allin, Leire Leache, Kellan Woo, Jeffrey N. Bone, Colleen Pawliuk, Jalal Tarabishi, Matthew Carwana, Roshan A. Ananda, Priyadarshini Ramakrishnan, Tala J Alhejazi, Alyssa Chen, Amin Sharifan, Mohamed M. Shawqi, Marie Wright, Nassr Nama

**Late Breaking Abstract - Fibrinolytics use in children with pleural empyema**

PA2739 Carmen Cornelia Maria de Jong (Stettlen, Switzerland), Ilja E Heijting, Peter J F M Merkus, Jolt Roukema, Lara S Van Den Wijngaart, Milanthy S Pourier

PS-12 in poster area

Session 285

12:30 - 14:00

## Poster session: Diagnostic pathways and paediatric asthma monitoring

Disease(s) : Airway diseases Sleep and breathing disorders

Method(s) : Cell and molecular biology Pulmonary function testing General respiratory patient care Epidemiology Public health Physiology

Tag(s) : Clinical

Chairs : Erol Gaillard (Leicester (Leicestershire), United Kingdom), Ozge Yilmaz (Manisa, Turkey)

**Deriving a change score for FEV1 for children with asthma**

PA2740 Nicole Filipow (London, United Kingdom), Stephen Turner, Anne Chang, Helen Petsky, Thomas Frischer, Stanley Szeffler, Sanja Stanojevic

**Response to bronchodilation in children by oscillatory impedance and admittance**

PA2741 Chiara Veneroni (Milano (MI), Italy), Giuliana Ferrante, Laura Venditto, Michele Piazza, Laura Tenero, Marco Zaffanello, Raffaele Dellaca, Pasquale P Pompilio, Giorgio Piacentini

**Bronchodilator response cut-off -point of the FEV0.75 s in asthmatic Tunisian children.**

PA2742 Molk MAALEJ (Sfax, Tunisia), Rim Kammoun, Emna Eleuch, Hana Trabelsi, Leila Triki, Hela Zouari, Kaouther Masmoudi

**Methodological approach of the use of electronic nose in paediatrics: A factibility study**

PA2743 Ana Díez Izquierdo (Barcelona, Spain), Teresa Garriga-Baraut, Ines De Mir-Messa, Alba Torrent-Vernetta, Sandra Rovira-Amigó, Manuel Gómez-Duque, Ignacio Iglesias-Serrano, Silvia Gartner-Tizzano, Jose M Martínez-Sánchez, Hipólito Pérez, Antonio Moreno-Galdó

**Treatable traits in asthmatic children**

PA2744 Magdalena Vocos (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primerose, Marcela Roque, Veronica Giubergia, Veronica Aguerre, Belen Lucero, Gabriela Pelaez, Juan Manuel Figueroa

**Bronchodilator response phenotype in children with moderate to severe asthma exhibits elevated T2 and T1 serum cytokines**

PA2745 Mahmoud Ismael Abdel-Aziz (Amsterdam, Netherlands), Nariman K. A. Metwally, Susanne J. H. Vijverberg, Anne H. Neerincx, Simone Hashimoto, Barbara S Dierdorff, Tamara Dekker, Jan Willem Duitman, Mario Gorenjak, Antoaneta A. Toncheva, Susanne Harner, Susanne Brandstetter, Christine Wolff, Olaia Sardón-Prado, Paula Corcuera-Elosegui, Javier Korta-Murua, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D. Kraneveld, René Lutter, Anke H. Maitland-Van Der Zee

**Children can be safely discharged on as required salbutamol after episodes of acute wheeze.**

PA2746 Steph Harper (Southampton, United Kingdom), David James, Catherine Crocker, Alison Mcevoy, Amanda Harris, Gary Connett

**Preliminary observations from an asthma intervention package to improve outcomes for children and young people in inner city Birmingham, UK**

PA2747 Titus Ninan (Solihull (West Midlands), United Kingdom), Teresa Evans, Vipran Vijaya, Susan Frost, Mairead Hitching, Satish Rao

**Allergic rhinitis and atopic dermatitis are associated with a decreased risk of asthma-related hospital visits in moderate to severe pediatric asthma; results of the SysPharmPediA study**

PA2748 Amir Hossein Alizadeh Bahmani (Amsterdam, Netherlands), Susanne J.H. Vijverberg, Simone Hashimoto, Christine Wolff, Catarina Almqvist, Lizan D. Bloemasma, Susanne Brandstetter, Paula Corcuera-Elosegui, Mario Gorenjak, Susanne Harner, Anna M. Hedman, Michael Kabesch, Javier Korta-Murua, Aletta D. Kraneveld, Anne H. Neerincx, Maria Pino-Yanes, Uroš Potočnik, Shahriyar Shahbazi Khamas, Olaia Sardón-Prado, Mahmoud I. Abdel-Aziz, Anke H. Maitland-Van Der Zee

**Reducing asthma exacerbations after the start of the school year: empowering children and families**

PA2749 Karl Holden (Liverpool, United Kingdom), Lynsey Brown, Vicotria Worrall, Claire Hepworth, Helen Harper, Lucy Gait, Laura Marsh, Andrew Lilley, Ian Sinha, Christopher Grime

- PA2750** **Prospective follow-up of asthma and health related quality of life into late adolescence after bronchiolitis in infancy.**  
Sonja Laitinen (Tampere, Finland), Eero Lauhkonen, Riikka Riikonen, Matti Korppi, Paula Heikkilä
- 
- PA2751** **Effect of inhalation formulation on symptoms and impulse oscillometry indices in teen-aged asthmatics**  
Tiina Tanninen (HELSINKI, Finland), Anna Pelkonen, Pekka Malmberg, Mika Mäkelä
- 
- PA2752** **Paediatric rapid-access asthma hubs – a feasibility and effectiveness study**  
Ali Hakizimana (Leicester, United Kingdom), David K H Lo, Damian Roland, Molla Imaduddin Ahmed, Vinayak K Rai, Lesley Danvers, Rachel Rowlands, Reeta Herzallah, Erol A Gaillard
- 
- PA2753** **The outcome of misdiagnosis in childhood asthma: the other side of the coin**  
Gülay Bas Bilgin (İstanbul, Turkey), Zeynep Reyhan Onay, Fatma Begüm Çopur, Sinem Can Oksay, Deniz Mavi Tortop, Yasemin Mocan Çağlar, Begüm Yörük, Özge Ülgen, Saniye Girit
- 
- PA2754** **Under-treated asthma in children – a nationwide secondary care study.**  
Jon Konradsen (Sollentuna, Sweden), Caroline Stridsman, Øyvind Martinsen, Stina Selberg, Maria Ödling
- 
- PA2755** **Correlation between FeNO and asthma control in pediatric patients in a developing country**  
Daniela Cleves (Bogota, Colombia), Pedro David Vargas Duque, Ranniery Acuña Cordero, Paula Aguilera Otalvaro, Bethy Camargo, Ricardo Aristizabal Duque, Carlos Rodriguez Martinez
- 
- PA2756** **Clinical control of asthma and lung inflammation may impair quality of sleep and life in children and adolescents**  
Etiene Farah Teixeira De Carvalho (São Paulo (SP), Brazil), Evelim Gomes, Dirceu Costa
- 
- PA2757** **NHS Wales National Initiative for Good Asthma Control: Patient-facing Apps for Parents, Children and Adults.**  
Daniel Rigler (Cardiff, United Kingdom), Julian Forton, Katie Pink, Chris Davies, Grace Moore, Laura Wallis, Simon Barry
- 
- PA2758** **Effectiveness of written asthma action plan in improving asthma control in children**  
Besma Hamdi (Tunis, Tunisia), senda derouiche, Sabrina Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Agnès Hamzaoui
- 
- PA2759** **How do we identify dysfunctional breathing (DB) in children and young people (CYP)- a UK delphi consensus.**  
Kenneth A. Macleod (Edinburgh (Edinburgh), United Kingdom), Ruth Stewart, Ann McMurray, Kirstin Unger

## PS-13 in poster area

## Session 286

12:30 - 14:00

## Poster session: Epidemiology of rare paediatric respiratory diseases

Disease(s) : **Airway diseases** **Interstitial lung diseases**

Method(s) : General respiratory patient care Epidemiology Pulmonary function testing Imaging

Tag(s) : Clinical

Chairs : Myrofora Goutaki (Bern, Switzerland), Céline Kempeneers (Liège, Belgium)

- PA2760** **Variability of lung function in patients with primary ciliary dyskinesia (PCD): longitudinal analysis from the PROVALF-PCD cohort, a BEAT-PCD Collaboration**  
Bruna Rubbo (Bristol, United Kingdom), Kewei Zhang, Avni Kant, Melissa Borelli, Carolina Constant, Silvia Castillo-Corullón, Ela Eralp, Claire Hogg, Cordula Koerner-Rettberg, Enrico Lombardi, Natalie Lorent, Vendula Martinu, Lucy Morgan, Kim Nielsen, Heymut Omran, Ugur Ozelik, Phil Robinson, Sandra Rovira-Amigo, Guillaume Thouvenin, Nicola Ullman, Woolf Walker, Panayiotis Yiallourous, Camille Pearse, Bettina Frauchiger, Claudia Kuehni, Nicole Beydon, Philipp Latzin, Jane Lucas
- 
- PA2761** **Lung function and airway microbiology in primary ciliary dyskinesia (PCD): cross-sectional analysis from the PROVALF-PCD cohort, a BEAT-PCD Collaboration**  
Bruna Rubbo (Bristol, United Kingdom), Avni Kant, Kewei Zhang, Annalisa Allegorico, Mieke Boon, Melissa Borelli, Claudia Calogero, Siobhán Carr, Carolina Constant, Silvia Castillo Corullón, Nagehan Emiralioglu, Amanda Harris, Bulent Karadag, June Marthin, Vendula Martinu, Lucy Morgan, Heymut Omran, Phil Robinson, Sandra Rovira-Amigo, Anne Schlegkendal, Guillaume Thouvenin, Panayiotis Yiallourous, Claudia Kuehni, Philipp Latzin, Nicole Beydon, Jane Lucas
- 
- PA2762** **Evaluating gene-disease relationships in motile ciliopathies: an international ClinGen and BEAT-PCD ERS CRC collaboration.**  
Suzanne Crowley (Oslo, Norway), William Hankey, Marwa Elnagheeb, Rahma Mani, Maria-Ines Benito, Rasha Soliman, Mafalda De Almeida Gomes, Alexander Ing, Sabri Abdelwahab, Lindsay Worley, Shannon McNulty, Justine Siew, Courtney Lynn Thaxton, Catrina M Loucks, Simon Thomas, Maimoona Zariwala, Margaret Leigh, Deborah Morris-Rosendahl7, Ewa Ziętkiewicz, Sharon Dell, Ben Gaston, Bernd Dworniczak, Robert Hirst, Johanna Raidt, Keith Nykamp, William Hannah, Mahmoud Fassad, Amelia Shoemark, Marie Legendre, Hannah Mitchison
- 
- PA2763** **Genotype-phenotype associations in primary ciliary dyskinesia**  
Eva Sophie Lunde Pedersen (Bern, Switzerland), Myrofora Goutaki, Leonie D Schreck, Jane S Lucas, Claudia E Kuehni

- PA2764 Physical activity in people with primary ciliary dyskinesia**  
Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Claudia E Kuehni
- 
- PA2765 Association between upper and lower respiratory disease in primary ciliary dyskinesia**  
Yin Ting Lam (Bern, Switzerland), Jean-François Papon, Mihaela Alexandru, Andreas Anagnostos, Miguel Armengot, Mieke Boon, Andrea Burgess, Doriane Calmes, Suzanne Crowley, Sinan Ahmed. D. Dheyauldeen, Nagehan Emiralioglu, Ela Erdem Eralp, Christine Van Gogh, Eric G. Haarman, Amanda Harris, Isolde Hayn, Sara-Lynn Hool, Bülent Karadag, Céline Kempeneers, Sookyung Kim, Philipp Latzin, Natalie Lorent, Ugur Ozcelik, Ana Reula, Jobst Roehmel, Panayiotis Yiallourous, Myrofora Goutaki
- 
- PA2766 Fertility counselling in people with primary ciliary dyskinesia**  
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Philippa Jörgler, Katie Dexter, Michele Manion, Sophie Christin-Maitre, Nathalie Massin, Bernard Maitre, Myrofora Goutaki, Claudia E Kuehni
- 
- PA2767 Neonatal problems of people with primary ciliary dyskinesia in Switzerland**  
Myrofora Goutaki (Bern, Switzerland), Mirjam Koller, Yin Ting Lam, Leonie D. Schreck, Eva S.L. Pedersen, Claudia E Kuehni
- 
- PA2768 Piloting the FOLLOW-PCD questionnaire: a clinical and research tool**  
Myrofora Goutaki (Bern, Switzerland), Yin Ting Lam, Jean-François Papon, Eva S.L. Pedersen, Claudia E. Kuehni
- 
- PA2769 A BEAT-PCD consensus statement: a core outcome set for pulmonary disease interventions in primary ciliary dyskinesia**  
Eric G. Haarman (Amsterdam, Netherlands), Renate Kos, Myrofora Goutaki, Helene E Kobbernagel, Bruna Rubbo, Amelia Shoemark, Stefano Aliberti, Josje Altenburg, Pinelopi Anagnostopoulou, Rodrigo A. Athanazio, Nicole Beydon, Sharon D. Dell, Nagehan Emiralioglu, Thomas W. Ferkol, Micael R Loebinger, Natalie Lorent, Bernard Maitre, June K Marthin, Lucy C. Morgan, Kim G. Nielsen, Felix C. Ringhausen, Michal Shteinberg, Harm A.W.M. Tiddens, Anke H. Maitland-Van Der Zee, James D. Chalmers, Jane S.A. Lucas
- 
- PA2770 Impact of steroid and hydroxychloroquine treatment on cILD: A tertiary care experience**  
Beril Ecem Kiraci (Ankara, Turkey), Halime Nayir Buyuksahin, Nural Kiper, Nagehan Emiralioglu, Ugur Ozcelik, Deniz Dogru Ersoz, Ebru Yalcin
- 
- PA2771 The clinical and genetic spectrum of the interstitial lung diseases in infancy associated with surfactant protein disorders: A retrospective study**  
Halime Nayir Büyüksahin (Ankara, Turkey), Dilber Ademhan Tural, Beste Ozsezen, Birce Sunman, Ismail Guzelkas, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper
- 
- PA2772 Clinical characteristics and outcome of drug induced interstitial lung disease in pediatric population.**  
Mireia Vilella Sabate (Cambrils (Tarragona), Spain), Jordi Costa Colomer, Isabel Gascón Casaredi, Núria Ferrer Bosch, Maria Cols Roig
- 
- PA2773 Pediatric non-CF bronchiectasis in the Vinnytsia region in Ukraine - what can we do better?**  
Oleksandr Mazulov (Vinnytsia, Ukraine), Kate Khromykh, Oksana Tykholaz
- 
- PA2774 Multiple breath washout and imaging to detect early pulmonary toxicity in paediatric cancer patients and survivors: first results of a systematic review**  
Jakob Usemann (Basel, Switzerland), Christine Schneider, Christa Koenig, Enno Stranzinger, Maša Žarković, Claudia Kuehni, Christina Schindera
- 
- PA2775 A comparison of management of primary spontaneous pneumothorax in children and adults**  
Lauren Blake (Cambridge, United Kingdom), Theofilos Polychronakis, Stefan Marciniak
- 
- PA2776 Impact of immunoprophylaxis with palivizumab on respiratory syncytial virus infection in preterm infants less than 35 weeks in Colombian hospitals**  
Alejandro Colmenares (Bogota, Colombia), Clara Galvis, Lina Cabrales, Linda Ibatá, Juliana Marulanda, Oscar Ovalle, Dionisio Puella, Catherine Rojas, Martha Africano, Adriana Ballesteros, Héctor Posso
- 
- PA2777 Predictors of poor outcomes of respiratory syncytial virus acute lower respiratory infections in children under 5 years of age in a middle-income tropical country based on the National Public Health Surveillance System**  
Ranniery Acuña-Cordero (Bogotá, Colombia), Carlos Rodriguez-Martínez
- 
- PA2778 Factors associated with measles-related deaths during the 2017-2019 outbreaks in Vietnam**  
Hoang Nguyen Vu (Palaiseau, France), Minh Hung Tran, T. H. Nhung Pham, Huu Phuc Phan, Minh Dien Tran, Hoang-Anh Ngo
- 
- PA2779 Survey on the variability in provision of Paediatric Respiratory Medicine (PRM) services in district general hospitals across the UK**  
Renu Khetan (Nottingham (Nottinghamshire), United Kingdom), Christabella Ng, Emily Beswick, Donna Traves, Jayesh Bhatt



## PS-14 in poster area

## Session 287

12:30 - 14:00

## Poster session: Nursing and digital health

Disease(s) : Airway diseases Interstitial lung diseases Thoracic oncology Sleep and breathing disorders Respiratory critical care

Method(s) : General respiratory patient care Pulmonary rehabilitation Endoscopy and interventional pulmonology Respiratory intensive care

Tag(s) : Clinical

Chairs : Rui Pedro Marques da Silva (Sobreira – Paredes, Portugal), Liliana Silva (Matosinhos, Portugal)

- PA2780** **Implementation of a digital programme to promote self-management via cognitive behavioural therapy approaches for breathless people with chronic respiratory disease and symptoms of anxiety: a proof-of-concept study.**  
Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Graham Burns, Ioannis Vogiatzis, Matthew Armstrong
- PA2781** **Experiences and Perceptions of Telemedicine in Patients Living with Advanced Chronic Obstructive Pulmonary Disease: A Qualitative Evidence Synthesis.**  
Una O'Connor (Limerick, Ireland), Geraldine Crilly, Claire Quinn
- PA2782** **Successful implementation of Telehealth services in Respiratory nurse clinic -COPD**  
Maggie, Pik Kee Lit (Kowloon, Hong Kong), Kuen Han Lee, Fung Ting Mak, Pui Shan Chow, Yuen Hin Wong, Yiu Hei Chan, Wai Man Johnny Chan
- PA2783** **Web-based intervention to increase physical activity in COPD patients: a pilot study**  
Ricardo Salgado (Lausanne, Switzerland), Philippe Delmas, Patricio Costa, Miguel Padilha
- PA2784** **Routine monitoring with pleural manometry during thoracentesis in an Interventional Pulmonology Unit**  
Marta Navarro Colom (Barcelona, Spain), Laura Romero, Virginia Pajares, Albert Rafecas, Ana Pardessus, Alfons Torrego
- PA2785** **Which digital solutions provide security, quality and safety for patients in Long Term Non Invasive Ventilation (LT-NIV)?**  
Bettina Pedersen (Faaborg, Denmark), Anne Dichmann Sorknæs, Hanne Svenningsen, Grete Bøgesvang, Britta Aaes
- PA2786** **Analysis of the clinical effects of different nebulized inhalation devices on nurses' inhalation exposure**  
Qin Zeyu (Changchun (Jilin), China), Lin Hongjing
- PA2787** **Nursing care of a pregnant woman with primary mediastinal large B-cell lymphoma complicated with airway stenosis**  
Yu Zhang (Beijing, China), Chunyan Zhang, Shuqin Wang, Bing Sun, Yanrui Jia
- PA2788** **Usability of Emento Digital Care Guide: A personalized, self-guided, app-based intervention for patients with rare lung diseases**  
Nanna Vendelboe Gregersen (Aarhus N, Denmark), Vibeke Skivild, Birgit Refsgaard Iversen, Elisabeth Bendstrup
- PA2789** **AmbuFlex – a telemedicine tool for improving patient pathways for patients with COPD?**  
Lene Brock Jakobsen (Viby J., Denmark), Birgit Refsgaard Iversen
- PA2790** **Discharge management of high-risk COPD patients with remote wisdom**  
Hui-Wen Po (Douliou, Taiwan), Ying-Chien Chu, Hui-Zhen Cai
- PA2791** **Intervention for improving sleep in patients with inflammatory bowel disease (IBD). Study protocol**  
Mónica Granados Martín (Madrid, Spain), Dania Rocío Díaz Rodríguez
- PA2792** **Late Breaking Abstract - Effect of different form of upper limb muscles training on dyspnea in COPD**  
Marc Beaumont (Morlaix, France), Loïc Péran, Anne-Cécile Berriet, Catherine Le Ber, Eloïse Philippe, Emmanuelle Courtois-Communiier, Francis Couturaud
- PA2793** **Late Breaking Abstract - Longitudinal follow-up in non-hospitalised individuals with post COVID-19 condition**  
Anna Törnberg (Bromma, Sweden), Annie Svensson, Anna Svensson-Raskh, Elisabeth Rydwik, Mikael Björnson, Michael Runold, Judith Bruchfeld, Malin Nygren-Bonnier
- PA2794** **Late Breaking Abstract - Adult Primary Ciliary Dyskinesia (PCD) physiotherapy standards of care in England**  
Elizabeth Shepherd (Southampton, United Kingdom), Connie Webster, Stevie Peake

## PS-15 in poster area

## Session 288

12:30 - 14:00

## Poster session: Epidemiological and public health aspects in tuberculosis

Method(s) : Public health General respiratory patient care Imaging Epidemiology Pulmonary function testing

Tag(s) : Clinical

**Chairs :** Irina Kontsevaya (Borstel, Germany), Chair to be confirmed

<b>PA2795</b>	<b>Characteristics of Household Contacts of Rifampin and Multidrug-resistant Tuberculosis Cases at High Risk of Progression to Tuberculosis Disease in Vietnam.</b> Vicky Chang (Sydney (NSW), Australia), Thu-Anh Nguyen, Binh Nguyen, Nhung Nguyen, Greg Fox
<b>PA2796</b>	<b>Miliary TB in East London (2014-2022): a retrospective review of microbiology, imaging and outcomes</b> Joseph Gafton (London, United Kingdom), Daniel Pope, Santino Capocci, Janan Jeyatheesan, Rory Mcdermott
<b>PA2797</b>	<b>Risk of tuberculosis after endoscopic resection in gastric cancer: nationwide population-based study</b> Hye Sung Khil (Seoul, Republic of Korea), Sue In Choi, Byung-Keun Kim, Eun Joo Lee, Sang Yeub Lee, Won Jai Jung
<b>PA2798</b>	<b>Impact of the COVID-19 pandemic on tuberculosis services in a rural area of Senegal</b> Luigi Ruffo Codecasa (Milano (MI), Italy), Giulia Menotti, Maddalena Giglia, Marina Tadolini, Niccolò Riccardi, Mar Diop Yacine, Mamoudou Ndiaye, Giorgio Besozzi, Giovanni Sotgiu, Laura Saderi
<b>PA2799</b>	<b>Post-TB lung disease: what can be learned from the past</b> Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luís Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Carla Janela, Natália André, Paula Raimundo, Teresa Falcão
<b>PA2800</b>	<b>Development of a prognostic prediction model of death in new tuberculosis patients</b> Parichat Niyomthong (Phrae, Thailand), Arpakorn Prawan, Wikanda Udomdech, Thanin Chattapiban
<b>PA2801</b>	<b>Impaired lung function in South African children with pulmonary tuberculosis</b> Ingrid Joy Courtney (Cape Town, South Africa), Vita W. Jongen, Ruan Swanepoel, Carl Lombard, Rory Dunbar, Pierre Goussard, Eric Mccollum, H. Simon Schaaf, Anneke C. Hesselning, Megan Palmer, Marieke M. Van Der Zalm
<b>PA2802</b>	<b>Assessing patient satisfaction with Video-Observed Therapy (VOT) for drug-susceptible tuberculosis during the COVID-19 pandemic.</b> Sandra Ragheb (Calgary, Canada), Jinell White, Julie Jarand, Dina Fisher, Rachel Lim
<b>PA2803</b>	<b>Frequency of serious adverse events on therapy with modified fully oral shorter treatment regimens (mSTR) for MDR/RR-TB</b> Elmira Gurbanova (Baku, Azerbaijan), Natalia Yatskevich, Askar Yedilbayev, Oleksandr Korotych, Arax Hovhannesian, Maryna Tyshko, Nastassia Dankova, Alena Skrahina
<b>PA2804</b>	<b>Does pulmonary tuberculosis differ by gender?</b> Nemsi Ella (Tunis, Tunisia), Ben Jemia Emna, Chaabi Khouloud, Khedhiri Manel, Ben Attig Yosra, Ben Amar Jihene, Boudaya Sadok, Zaibi Haifa, Aouina Hichem
<b>PA2805</b>	<b>Tuberculosis and HIV – the Lisbon reality</b> Helena Pires (Almada, Portugal), Joana Carvalho, Joana Diogo, Susana Carreira, Dalila Ferreira, Teresa Mourato, Luís Coelho
<b>PA2806</b>	<b>Impact of war to treatment of tuberculosis: experience of Kharkiv, Ukraine</b> Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Iryna Kalmykova, Hanna Buravel, Svitlana Tiahlo, Tetiana Synenko
<b>PA2807</b>	<b>Preventive treatment of latent tuberculosis infection: prevalence of adverse events among 23602 patients treated over the last 30 years at Villa Marelli in Milan.</b> Sarah Elizabeth O'Donnell (Milan, Italy), Gloria Leonardi, Federica Piedepalumbo, Maurizio Ferrarese, Alice Repossi, Marco Mantero, Pierachille Santus, Francesco Blasi, Luigi Ruffo Codecasa
<b>PA2808</b>	<b>The burden of multi-drug resistant tuberculosis in the era of coronavirus disease 2019 pandemic in Pakistan: A public health threat of global concern</b> Muhammad Imran (Peshawar, Pakistan), Zafar Iqbal, Sajjad Khan, Khalid Jamal, Azhar Uddin, Shumaila Javaid, Abdul Ghafoor, Muhammad Salman Khan
<b>PA2809</b>	<b>COVID pandemic and its drawback effects on tuberculosis in vulnerable groups</b> Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Maria Panescu, Valentina Esanu, Adriana Ioana Sorete-Arbore
<b>PA2810</b>	<b>Latent tuberculosis infection in healthcare workers – the reality of a Portuguese hospital</b> Carina Rôlo Silvestre (S. João das Lampas, Portugal), Rute Afonso, Sofia Alves, Maria Cavaco, Luis Mateus, André Nunes, Ricardo Cordeiro, Natália André, Paula Raimundo, Teresa Falcão, António Domingos
<b>PA2811</b>	<b>Prevention of tuberculosis among healthcare providers: reality of an endemic country</b> hanane ikrou (agadir, Morocco), Sofia Farhat, Nada Boutbagha, Houssam Ennaciri, Houda Moubachir, Hind Serhane
<b>PA2812</b>	<b>Impact of COVID-19 pandemic and country of origin on tuberculosis treatment outcome in Greece</b> Foteini Gkakou (Thessaloniki, Greece), Maria Sionidou, Panagiota Kyreltsi, Athanasios Avramidis, Serafeim-Chrysovalantis Kotoulas, Marija Hadji-Mitrova, Eleni Papadaki, Giorgos Sakalis, Anna Tsakona, Katerina Manika

**PA2813** **21st Century: Directly Observed Video-Therapy of Anti-Tuberculosis Treatment**  
Joana Catarina Batista Canadas (Rio Maior (District de Santarém), Portugal), Francisca Guimarães, Maria Cunha, Raquel Armindo, Joana Carvalho, Catarina Pissarra, Soledade Estribio, Paula Rosa

**PA2814** **The impact of the COVID-19 pandemic on tuberculosis detection in Tashkent, Uzbekistan**  
Ruzilya Usmanova (Tashkent, Uzbekistan), Nargiza Parpieva, Irina Liverko, Ilhomjon Butabekov, Yuliya Dolgusheva, Revaz Kokhodze, Mahliyo Muhamedova, Sharofiddin Yuldashev, Hasan Safayev

PS-16 in poster area

Session 289

12:30 - 14:00

Poster session: Viral infections and antibiotic use

Disease(s) : **Airway diseases**

Method(s) : Epidemiology General respiratory patient care Public health Cell and molecular biology Endoscopy and interventional pulmonology Respiratory intensive care

Tag(s) : Clinical

Chairs : Aikaterini Dimakou (Agia Paraskeyi, Greece), Chair to be confirmed

**PA2815** **RSV as a Cause of Exacerbations of COPD**  
Dexter Wiseman (London, United Kingdom), Ryan Thwaites, Mairi Macleod, Andrew Ritchie, Lydia Finney, Faisal Kamal, Hasan Shahbakhti, Ashley Sanchez Sevilla Uruchurtu, Braddy-Green Aaron, James Allinson, Gavin Donaldson, Peter Openshaw, Jadwiga Wedzicha, The Resceu Investigators

**PA2816** **Disruption in typical patterns of seasonality of respiratory viral infections (RVIs)**  
Martha Purcell (Southampton, United Kingdom), Tommaso Morelli, Pedro Rodrigues, Sandy Aitken, Charles Roberts, Jacqueline Nuttall, Anna Freeman, Tristan Clark, Tom Wilkinson

**PA2817** **A novel rhinovirus mRNA vaccine induces humoral and cellular immunity, providing protection against heterotypic rhinovirus infection**  
Chloe Julia Pyle (London, United Kingdom), Neeta D Patel, Paul Hamblin, Richard Butt, Michael R Edwards, Stephen Shaw, Sebastian L Johnston

**PA2818** **LSC - 2023 - Iron metabolism determines the outcome of influenza A virus infection**  
Jemma Mayall, Amber Pillar, Katie Daly, Alexandra Brown, Ama-Tawiah Essilfie, Henry Gomez, Richard Kim, Kristy Nichol, Chantal Donovan, Greg Anderson, David Frazer, Elizabeth Milward, Philip Hansbro, David Reid, Alan Hsu, Peter Wark, Jay Horvat

**PA2819** **Estimated incidence of hospitalizations and primary care visits attributable to RSV infections in adults in Germany between 2015 – 2019**  
Lea Bayer (Berlin, Germany), Caroline Beese, Gordon Brestrich, Elizabeth Begier, Aleksandra Polkowska-Kramek, Robin Bruyndonckx, Charles Nuttens, Thao Mai Phuong Tran, Juan Luis Ramirez Agudelo, Caihua Liang, Bradford Gessner, Gernot Rohde

**PA2820** **Association between clinical presentation and a host transcriptomic signature in patients with lower respiratory tract infection undergoing bronchoscopy**  
Andreas Hoheisel (Freiburg, Germany), Desiree Schumann, Leticia Grize, Kathleen Jahn, Nina Khanna, Matthias Herrmann, Andrei Darie, Silvio Ragozzino, Sabine Kuster, Werner Strobel, Hans Hirsch, Michael Tamm, Daiana Stolz

**PA2821** **Characterisation of clinical risk factors for severity and outcome in adults hospitalised with respiratory viral infection (RVI): the UNIVERSAL study.**  
Tommaso Morelli (Southampton, United Kingdom), Martha Purcell, Pedro Rodrigues, Sandra Aitken, Charles Roberts, Jacqueline Nuttall, Tristan Clark, Anna Freeman, Tom Wilkinson

**PA2822** **Changes in the epidemiology of severe acute respiratory virus infection in the elderly after social distancing was lifted**  
Jae Jeong Shim (Seoul, Republic of Korea), Hye Sun Lee, Juyeon Yang, Je Hyeong Kim, Sung Won Chang, Kyung Hoon Min, Young Seok Lee

**PA2823** **INNA-051 pre-exposure prophylaxis in a human influenza infection model**  
Ruth Tal-Singer (Media, United States), Scott White, Francesca Mercuri, Nicole Kruger, Grant McLachlan, Stephan Mynhardt, Hayley Mcquiltlen, Bruce Miller, Christophe Demaison

**PA2824** **Real-world primary care data of antibiotic prescriptions for sore throat in Italy**  
Graça Coutinho (London, United Kingdom), Aurelio Sessa, Adrian Shepard, Thomas Hallett, Martin Duerden

**PA2825** **Medical practices that create risks for the development of antibacterial resistance**  
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova, Farhod Mukhsinov

**PA2826** **Savings potential for antibiotics in respiratory infections: Insights from the European market**  
Peter Kardos (Frankfurt am Main, Germany), Ludger Klimek, Ernest Kuchar, Ingrid Stelzmüller, Andrzej M Fal, André Gessner

- PA2827 Inflammatory and mucociliary dysfunction based endotypes across the spectrum of chronic airways diseases**  
Erin Cant (Dundee, United Kingdom), Mathieu Bottier, Morven Shuttleworth, Jamie Stobo, Lidia Perea, Alison Dicker, Holly R Keir, Megan L Crichton, Jeffrey Huang, Amelia Shoemark, James D Chalmers
- PA2828 Respiratory infection with multidrug resistant organisms is more often in men than women- a retrospective, multicenter study**  
Cathrin Kodde (Berlin, Germany), Juliane Köhler, Karin Schwegmann, Marzia Bonsignore, Irit Nachtigall
- PA2829 Predictive factors for a good pulmonary penetration of antibiotics: AntiBiotics dosage in BronchoAlveolar Lavage**  
Julia Delomez (Neuville, France), Alice Henry, Damien Basille, Vincent Jounieaux, Claire Andréjak
- PA2830 Detection of respiratory viruses in patients with aspiration pneumonia: a retrospective study**  
Daijiro Nabeya (Okinawa, Japan), Takeshi Kinjo, Wakako Arakaki, Wakaki Kami, Hiroe Hashioka, Naoya Nishiyama, Tomoo Kishaba, Kazuko Yamamoto
- PA2831 Aftershocks caused by viruses**  
Anna Sárközi (Debrecen, Hungary), Erik Békési, Edit Nagy, Mária Papp, Zsuzsanna Orosz, Ildikó Horváth
- PA2832 Findings from a new 12-country survey of respiratory illness, symptoms, and management approaches**  
Graça Coutinho (London, United Kingdom), Martin Duerden, Sergio Caretta, Thomas Hallett, Adrian Sheppard, Terence Pillay, Anna Ermakova, Aurelio Sessa
- PA2833 Risk factors for influenza-induced exacerbations and mortality in non-cystic fibrosis bronchiectasis**  
Hung Yu Huang (Taipei, Taiwan), Po-Chuan Ko, Chun-Hua Wang
- PA2834 Late Breaking Abstract - Remdesivir reduces progression to ICU in patients hospitalized with COVID-19**  
Rikisha Shah Gupta (Foster City, United States), Valentina Shvachko, Mark Berry, Eunyoung Lee, Gina Brown, Mazin Abdelghany, Jason Okulicz, Celine Der-Torossian, Anand Chokkalingam

PS-17 in poster area

Session 290

12:30 - 14:00

## Poster session: Bronchiectasis treatments

Disease(s) : **Airway diseases**

Method(s) : Public health General respiratory patient care Pulmonary rehabilitation Respiratory intensive care Pulmonary function testing Epidemiology

Tag(s) : Clinical

Chairs : Pieter Goeminne (Bornem, Belgium), Holly R. Keir (Dundee (Angus), United Kingdom)

- PA2835 Dipeptidyl peptidase-1 inhibition in bronchiectasis with eosinophilic endotype in the WILLOW trial**  
Carlos Fernandez (Bridgewater, United States), James D. Chalmers, Mark L Metersky, Ariel Teper, Sebastian Fucille, Melanie Lauterio, Roald Van Der Laan, Andreas Maes, Michael R Loebinger
- PA2836 Safety, tolerability, pharmacokinetics(PK) and pharmacodynamics(PD) of HSK31858a novel DPP-1 inhibitor in healthy volunteers a phase I clinical trial**  
Weijie Guan (Guangzhou (Guangdong), China), Jie Hou, Fang Qiong Li, Wei Fang Zeng, Han Mo Liu
- PA2837 Beclomethasone-formoterol vs placebo for chronic cough in bronchiectasis: the FORZA randomised-controlled trial**  
Tjeerd van der Veer (Amsterdam, Netherlands), Johanna Margaretha De Koning Gans, Gert Jan Braunstahl, Angelina Pieters, Johanna Van Den Berg, Rogier Hoek, Lieve Kamphuis, Marleen Bakker, Alain Dubois, Joachim Aerts, Menno Van Der Eerden
- PA2838 Impact of hypertonic agents on the solid's concentration in patients with bronchiectasis. A post-hoc analysis**  
Victoria Serrano (vilafraanca del penedes, Spain), Héctor Sanz-Fraile, Antoni Torres, Beatriz Herrero-Cortina
- PA2839 Nebulised Meropenem for prevention of Bronchiectasis Exacerbation**  
Iftikhar Nadeem (Lode, Cambridge, United Kingdom), Tejas Ingle, Masood Ur Rasool, Noor Mahdi, Syed Ata Ul Munamm, Bobbak Rabiei, Raaga Vijayarathy, Duncan Grady, Sumita Pai, Dorothy Grogono
- PA2840 Real-world use of the BEST score for IV antibiotic courses in bronchiectasis**  
Philip Mitchelmore (Kenton, United Kingdom), Hilary Mortimer, Helen Dunning, Kathryn Thomson, Laura Childs, Aye Khin, Hannah Thould
- PA2841 Pseudomonas aeruginosa eradication (PAE) in bronchiectasis (BE) with oral ciprofloxacin treatment (OC)**  
Letizia Traversi (Cittiglio, Italy), Maria Teresa Gomez-Martin Martín-Gómez, Daniel Romero, Almudena Felipe, Clara Pons, Antonio Alvarez, Ianire Gallego, Eva Polverino

- PA2842** **Retrospective review of treatment approaches for Pseudomonas aeruginosa infections in patients with Primary Ciliary Dyskinesia: Insights from a Danish cohort**  
Mathias G. Holgersen (Copenhagen, Denmark), Frederik T. Søndergaard, June K. Marthin, Helle K. Johansen, Kim G. Nielsen
- PA2843** **Pseudomonas aeruginosa eradication in patients with bronchiectasis: data from the EMBARC registry**  
Mattia Nigro (Opera (MI), Italy), Charles Haworth, Eva Polverino, Megan L. Crichton, Felix C. Ringshausen, Anthony De Soya, Montserrat Vendrell, Pierre Regis-Burgel, Michael R. Loebinger, Katerina Dimakou, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Michal Shteinberg, Wim Boersma, J. Stuart Elborn, Pieter C. Goeminne, James D. Chalmers, Stefano Aliberti
- PA2844** **The efficacy and safety of inhaled antibiotics for the treatment of bronchiectasis in adults: updated systematic review and meta-analysis**  
Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Hayoung Choi, Charles S. Haworth, James D. Chalmers
- PA2845** **Healthcare costs and resources utilization in patients with bronchiectasis compared to matched cohorts with asthma and COPD: a population-based cohort study**  
MARTA NADALIN (Monza, Italy), Raffaella Ronco, Matteo Monzio Compagnoni, Fabrizio Luppi, Giovanni Corrao, Paola Favero
- PA2846** **A citizen phage library for respiratory infection**  
Philip Mitchelmore (Kenton, United Kingdom), Steve Michell, Julie Fletcher, Robyn Manley, Remy Chait, Jaime Graham, Christian Fitch, Jan Zheng, Jessica Sacher, Alice Mills, Natalie Whitehead, Ben Temperton
- PA2847** **Related factors to non-invasive ventilation in patients with acute bronchiectasis exacerbation**  
Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hana Mrassi, Sarra Ben Sassi, Sarra Trimech, Chirine Zaier, Imen Sahnoun, Leila Douik Elgharbi
- PA2848** **Changes of QoL-B in bronchiectasis patients undergoing an outpatient intravenous antibiotic therapy; preliminary results from a tertiary European Multicenter Bronchiectasis Audit and Research Collaboration (EMBARC) centre.**  
Pia Ghosh (Stockholm, Sweden), Malin Sande, James D. Chalmers, Apostolos Bossios
- PA2849** **Microbiology in inhaled antibiotic users with bronchiectasis: Data from the European Bronchiectasis Registry (EMBARC)**  
Charles Haworth (Cambridge, United Kingdom), Eva Polverino, Megan Crichton, Felix Ringshausen, Anthony De Soya, Montserrat Vendrell, Pierre Regis-Burgel, Michael Loebinger, Katerina Dimakou, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Michal Shteinberg, Wim Boersma, Stuart Elborn, Pieter Goeminne, Stefano Aliberti, James Chalmers
- PA2850** **Long-term High flow nasal cannula therapy in bronchiectasis**  
Francesca Simioli (Napoli (NA), Italy), Anna Annunziata, Pasquale Imitazione, Antonietta Coppola, Rosa Cauteruccio, Francesco De Simone, Giuseppe Fiorentino
- PA2851** **Efficacy of inhaled tobramycin in adult patients with bronchiectasis and P. aeruginosa in sputum: a prospective observational study**  
Andreas M. Matthaiou (Drafi, Rafina-Pikermi, Attica, Greece), Chrysavgi Kosti, Antonia Dugalaki, Sofia Koukidou, Emmanouela Zervou, Aikaterini-Ioanna Sakellaropoulou, Ioannis Roussis, Serafeim Chrysikos, Georgios Hillas, Katerina Dimakou
- PA2852** **Study design of a Phase 2 rollover trial of the novel cathepsin C inhibitor BI 1291583 in patients with bronchiectasis**  
Michal Shteinberg (Haifa, Israel), Wiebke Sauter, Sanjay H Chotirmall, Pamela J Mcshane, Marcus Mall, Anne E O'Donnell, Peter Eickholz, Henrik Watz, Naoki Hasegawa, Anastasia Eleftheraki, Abhya Gupta, James D Chalmers
- PA2853** **A single-centre audit of specialist Bronchiectasis care and outcomes at 12 months**  
Georgia Tooth (Cambridge, United Kingdom), Shauna Hanrahan, Victoria Monson, Dorothy Grogono
- PA2854** **Fibrinogen and fractional exhaled nitric oxide as potential markers of lung functional impairment in clinically stable non-cystic fibrosis bronchiectasis**  
Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Pitsidianakis, Katerina M. Antoniou, Nikolaos Tzanakis

PS-18 in poster area

Session 291

12:30 - 14:00

Poster session: The global lung cancer epidemic: diversity, social inequalities, and survivorship

Disease(s) : Airway diseases Thoracic oncology

Method(s) : Epidemiology Public health Pulmonary function testing Palliative care

Tag(s) : Clinical

Chairs : Ilona Tietzova (Prague, Czech Republic), Katherina Bernadette Sreter (Zagreb, Croatia)

- PA2855 Real-World treatment outcomes for advanced NSCLC in Greece**  
Andriani Charpidou (Athens, Greece), Eleni Kokkotou, Lamprini Stournara, Maria Mani, Ioannis Gkiozos, Sofia Tsagouli, Nikolaos Syrigos, Thomas Burke, Andreas Desiniotis, Ioannis Dimitriadis
- 
- PA2856 Occupational lung cancer: the medico-legal aspect**  
Asma Aloui (sousse, Tunisia), Zeineb ATHIMNI, Marwa Bouhoula, Sana Bhiri, Asma Chouchane, Imen Kacem, Maher Maoua, Aicha Brahem, Houda Kalboussi, Olfa El Maalel, Souhail Chatti, Nejib Mrizak
- 
- PA2857 Lung Cancer Awareness in Saudi Arabia: Results of an Interim Analysis**  
Jaber S. Alqahtani (Dammam, Saudi Arabia), Bader S. Almqati, Turki G. Alharbi, Abdulraheem A. Almuntashiri, Mujahid A. Alsulaimani
- 
- PA2858 Histologic Lung Cancer 5-Year Survival Rates and Trends Vary by Tumor Stage and Residential County: 1990-2013 Surveillance, Epidemiology, and End Results(SEER)**  
Bingbing Wang (Shanghai, China), Shuanshuan Xie, Changhui Wang
- 
- PA2859 The changing face of lung cancer epidemiology in Greece**  
Georgia Hardavella (Athens, Greece), Danai Bisirtzoglou, Eleni Karetsi, Kelly Miziou, Gerasimos Metaxas, Christos Raptis, Fotis Kyriakou, Dina Broupi, Ioannis Gkiozos
- 
- PA2860 REAL-WORLD DATA ON LUNG CANCER PATIENTS CHARACTERISTICS IN NORTHERN SERBIAN PROVINCE OF VOJVODINA**  
Darijo Bokan (Sremska Kamenica, Republic of Serbia), Bojan Zaric, Tomi Kovacevic, Goran Stojanovic, Jelena Djekic Malbasa, Ana Milenkovic
- 
- PA2862 Clinical characteristics and out comes of lung cancer patients in a tunisian center**  
Asma Chouchane (sousse, Tunisia), Amani Kacem, Jihene Ghariani, Imen Kharrat, Anis Maatallah, Rahma Ben Jazia, Hend Zorgati, Yosri Benali, Dhouha Benbraiek, Sourour Belhajyoussef, Jihene Ayachi, Asma Gaddour
- 
- PA2863 Sociodemographic and clinical characteristics associated with lung cancer in women**  
Anna Trojnar (Warszawa, Poland), Magdalena Knetki-Wróblewska, Joanna Domagała-Kulawik
- 
- PA2864 Characteristics of lung cancer in elderly patients.**  
Ahmed Dhia El Euch (Sfax, Tunisia), Rim Khemakhem, Mounira Kallel, Nessrine Kallel, Rahma Gargouri, Ilhem Yangui, Nedja Moussa, Walid Feki, Najla Bahloul, Samy Kammoun
- 
- PA2865 COPD and lung cancer: Is there a link?**  
Houda Rouis (Ariana, Tunisia), Chirine Moussa, Mahdi Abdennadher, Soumaya Debiche, Nourchene Khalffallah, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Maâlej
- 
- PA2866 Does lung cancer in patients with COPD differ between women and men?**  
Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagała-Kulawik
- 
- PA2867 COPD occurrence among thousand of patients with lung tumor**  
Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagała-Kulawik
- 
- PA2868 Lung cancer in COPD patients included in a telemonitoring program (TELEPOC)**  
Jone Solorzano Egurbide (bilbao, Spain), Eva Tabernero Hugueta, M<sup>a</sup> Pilar Fuentetaja Olmos, M<sup>a</sup> Ángeles García Carreira, Imanol González Muñoz, Elena Garay Llorente, Joseba Andía Iturrate, Beatriz González Quero, Larraitz García Echeberria
- 
- PA2869 Employment status at time of lung cancer diagnosis: A nationwide study 1994-2018**  
Morten Borg (Ry, Denmark), Ole Hilberg, Anders Løkke
- 
- PA2870 Is death from lung cancer associated with socioeconomic development? Turkey sample**  
Güntülü Ak (Eskişehir, Turkey), Selma Metintas, Oguz Han Aydilek, Muzaffer Metintas
- 
- PA2871 Long-Term Lung Cancer Survivors – Who are they and what happens throughout their follow up?**  
Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Mariana Antunes, Margarida Dias, Eloísa Silva, Ana Barroso
- 
- PA2872 Inequality in lung cancer: a nationwide study of income 1980-2018**  
Morten Borg (Ry, Denmark), Margrethe Høstgaard Bang Henriksen, Sara Witting Christensen Wen, Torben Frøstrup Hansen, Rikke Ibsen, Ole Hilberg, Anders Løkke
- 
- PA2873 Estimated cost of lung cancer in a public reference hospital in Morocco**  
Ibtissam El Harch (Fès, Morocco), S Guendaoui, M Charkaoui M, Soumaya Benmaamar, Mohammed Omari, Mohammed El Youbi, L Belakhhel, L Abouselham L, H Hachri H, I El Menchay, Samira El Fakir, Mohammed Berraho, Nadia Benchekroun, Nabil Tachfouti

PS-19 in poster area

Session 292

12:30 - 14:00

## Poster session: Pulmonary fibrosis: clinical and trial experiences

Disease(s) : [Interstitial lung diseases](#)

Method(s) : General respiratory patient care Pulmonary function testing Epidemiology Imaging Physiology

Tag(s) : Clinical

Chairs : Claudia Valenzuela (Madrid, Spain), Katarzyna B. Lewandowska (Warszawa, Poland)

- PA2874** **Continued nintedanib treatment in patients with progressive pulmonary fibrosis: data from INBUILD-ON**  
Wim A. Wuyts (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozerkis, Jin Woo Song, Corinna Miede, Mihaela Dumistracel, Carl Coeck, Vincent Cottin
- 
- PA2875** **Meta-analysis of effect of nintedanib on mortality in subjects with idiopathic pulmonary fibrosis (IPF) and other forms of progressive pulmonary fibrosis (PPF)**  
Wim A. Wuyts (Leuven, Belgium), Toby M Maher, Marlies Wijssenbeek, Dirk Koschel, Fernando J Martinez, Wibke Stansen, Susanne Stowasser, Luca Richeldi
- 
- PA2876** **Adverse Effects of Nintedanib – A Portent of Gender Inequality?**  
Dominic Sykes (Hull, United Kingdom), Ellis Day, Kayinaat Ibrar, Amanda Bell, Mark Major, Alyn H Morice, Simon P Hart
- 
- PA2877** **Real-World Safety and Effectiveness of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis**  
Arata Azuma (Kawasaki, Japan), Takashi Ogura, Yoshikazu Inoue, Yasuhiro Kondoh, Sakae Homma, Katsumi Tanaka, Kaori Ochiai, Kenya Muraishi, Yukihiko Sugiyama, Toshihiro Nukiwa
- 
- PA2878** **Nocebo effect of nintedanib on gastrointestinal (GI) adverse events (AEs) in patients with interstitial lung diseases (ILDs)**  
Oliver Distler (Zurich, Switzerland), Kristin B Highland, Arata Azuma, Tejaswini Kulkarni, Wim A Wuyts, Corinna Miede, Margarida Alves, Petros Sfikakis
- 
- PA2879** **Effects of nintedanib on circulating biomarkers in patients with progressive pulmonary fibrosis: subgroups by fibrotic pattern on HRCT**  
Toby M Maher (Los Angeles, United States), Francesco Bonella, Shervin Assassi, Imre Noth, Claudia Diefenbach, Carina Itrich, Klaus B Rohr, Martin Kolb
- 
- PA2880** **Impact of antifibrotic therapy on lung cancer incidence and mortality in patients with idiopathic pulmonary fibrosis**  
Yong Suk Jo (Seoul, Republic of Korea), Kyung Joo Kim, Chin Kook Rhee, Yong Hyun Kim
- 
- PA2881** **Antifibrotic treatment in patients with Idiopathic pulmonary fibrosis (IPF): Real life data from a Swedish registry**  
Lisa Carlson (Stockholm, Sweden), Dimitrios Kalafatis, Ida Pesonen, Jesper Magnusson, Magnus Skold
- 
- PA2882** **Characteristics of patients with progressive fibrosing ILDs in the ILD-PRO Registry**  
Leonard Lobo (Chapel Hill, United States), Yi Liu, Peide Li, Murali Ramaswamy, Aparna C Swaminathan, Srihari Veeraraghavan, Yanni Fan, Megan L Neely, Scott M Palmer, Amy L Olson
- 
- PA2883** **Progressive pulmonary fibrosis in patients with chronic hypersensitivity pneumonitis (cHP): a single center experience.**  
Julia Wälscher (Essen, Germany), Ulrich Costabel, Dirk Theegarten, Eda Boerner, Lutz Jehn, Christian Taube, Francesco Bonella
- 
- PA2884** **Comparison of the diagnostic criteria for progressive pulmonary fibrosis in connective tissue disease related interstitial lung disease**  
Hyunwoo Kim (Seoul, Republic of Korea), Kyuhwan Kim, Jongmin Lee, Yong Suk Jo
- 
- PA2885** **Interobserver variability of the ATS/ERS/JRS/ALAT diagnostic CT criteria for idiopathic pulmonary fibrosis: a systematic review and meta-analysis**  
Krit Dwivedi (Sheffield, United Kingdom), Liam Delaney, Samer Alabed, Mahan Salehi, Marcus Goodlad, Elliot Checkley, Hassan Shah, Andy Swift
- 
- PA2886** **Comparison of antifibrotic availability for patients on the BTS IPF Registry using existing and new prescribing criteria**  
Jennifer Naftel (Southampton, United Kingdom), Emma Kinsella, Nicola Wood, Sophie Fletcher
- 
- PA2887** **Five-year follow up analysis of Japanese ILD registry**  
Kazuya Tsubouchi (Fukuoka, Japan), Naoki Hamada, Shoji Tokunaga, Toru Tsuda, Shohei Takata, Hiroshi Ishii, Yasuhiko Kitasato, Tomoaki Hoshino, Yosuke Sasahara, Kazuhiro Yatera, Masayuki Kawasaki, Masaki Fujita, Makoto Yoshida, Takashige Maeyama, Taishi Harada, Hiroshi Wataya, Chiharu Yoshii, Masashi Komori, Yuichi Mizuta, Kazunori Tobino, Eiji Harada, Yoichi Nakanishi, Isamu Okamoto

- PA2888 Real-world study evaluating anti-fibrotic therapy on survival in idiopathic pulmonary fibrosis**  
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Joshua Barnes, Kirstie Rogers, Muhunthan Thillai, Helen Parfrey
- PA2889 Interstitial lung diseases in Israel**  
Tzvil Hershko (Tel-Aviv, Israel), Sonia Schneer, Michael J. Segel, Ori Wand, Ophir Freund, Amir Bar-Shai, David Shitrit, Liran Levy, Yochai Adir, Avraham Unterman
- PA2890 Idiopathic pulmonary fibrosis treated by Nintedanib: evaluation of safety even in patients treated with anticoagulants**  
Barbara Ruaro (Trieste, Italy), Riccardo Pozzan, Paola Confalonieri, Metka Kodric, Rossella Cifaldi, Mariangela Barbieri, Selene Lerda, Marco Confalonieri, Elisa Baratella, Francesco Salton
- PA2891 High antinuclear antibody titer is associated with increased mortality risk in patients with idiopathic pulmonary fibrosis**  
shimon izhakian ( Petach Tikva, Israel), May Igawa, Mordechai R Kramer
- PA2892 Clinical and prognostic significance of p-ANCA antibodies positivity in Idiopathic Pulmonary Fibrosis**  
Giuseppe Muscato (Catania, Italy), Alessandro Libra, Giuseppe Ielo, Enrico Sciacca, Stefano Palmucci, Gianluca Sambataro, Carlo Vancheri
- PA2893 Autoantibody positivity (AAb+) in idiopathic pulmonary fibrosis (IPF): outcomes from the Pulmonary Fibrosis Foundation Patient Registry (PFF-PR)**  
Tejaswini Kulkarni (Homewood, United States), Chad Newton, Mary Beth Scholand, Kevin Flaherty, Zhongze Li, Sachin Gupta, Elana. J Bernstein

## PS-2 in poster area

## Session 293

12:30 - 14:00

## Poster session: Digital health innovations in respiratory healthcare

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Pulmonary vascular diseases](#)Method(s) : Public health General respiratory patient care Pulmonary rehabilitation Physiology Pulmonary function testing  
Respiratory intensive care Imaging Epidemiology

Tag(s) : Clinical

Chairs : Konstantinos Kostikas (Ioannina, Greece), Yet Hong Khor (Melbourne (VIC), Australia)

- PA2894 AirPredict - A mobile app for monitoring personal exposure to Particulate Matter and respiratory outcomes in asthma patients**  
Michele Atzeni (Padova, Italy), Luca Cossu, Caterina Grisi, Umberto Semenzato, Mariaenrica Tinè, Simonetta Baraldo, Giacomo Cappon, Martina Vettoretti
- PA2895 Causes of failed smoking cessation attempts among active smokers.**  
fatiha bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane
- PA2896 A machine learning-driven approach to improve patient-centered care in pulmonary fibrosis**  
Jiwon Jung (Rotterdam, Netherlands), Rembrandt Oltmans, Ruixuan Zhang, Joke Hendriks, Richard Goossens, Marlies Wijzenbeek
- PA2897 Barriers to digital usage for patients with chronic respiratory diseases**  
Mark Burns (Southampton, United Kingdom), Mark Jones, Tom Havelock
- PA2898 Prospective observational study of physical activity measurement using ePRO for evaluating the severity and prognosis in patients with interstitial pneumonia.**  
Kentaro Ito (Matsusaka city, Mie, Japan), Maki Esumi, Seiya Esumi, Yuta Suzuki, Tadashi Sakaguchi, Kentaro Fujiwara, Yoichi Nishii, Hiroki Yasui, Osamu Taguchi, Osamu Hataji
- PA2899 Prediction of static lung volumes through spirometric parameters - a machine learning approach**  
Marco Pereira (Seixal, Portugal), Mónica Grafino, Ana Lutas, Teresa Pequito, Ricardo Ribeiro, Herminia Dias, Sofia Furtado
- PA2900 Evolution of patient perception and use of home spirometry over time**  
Karen Parsons (Oxford, United Kingdom), Carmine Ruggiero, Shakila Hussain, Michael Avoseh, Emily Fraser, Ling-Pei Ho, Peter Saunders, Rachel K. Hoyles
- PA2901 Development of an optimal machine learning model to detect features of wheezing in children**  
Kyunghoon Kim (Seoul, Republic of Korea), Hye Jeong Moon, Baek Seung Kim
- PA2902 Feasibility and Safety of Oxygen Saturation Telemonitoring in Covid-19: an observational study**  
Jacopo Simonetti (Rome, Italy), Francesco Lombardi, Luca Richeldi



- PA2903** **Ballistocardiographic pad for detection of heart rate in respiratory diseases.**  
Vratislav Sedlák (Hradec Králové 9, Czech Republic), Filip Studnička, Radovan Sedlák
- PA2904** **Literature-mining in research of Post-Acute Sequelae of Covid-19**  
Kristina Piontkovskaya (Stockholm, Sweden), Li Chuan-Xing, Yulian Luo, Michael Runold, Åsa Maria Wheelock
- PA2905** **Environmental impact of a CF virtual clinic**  
David Green (Manchester, United Kingdom), Thomas Fitzmaurice, Miles Eason, Freddy Frost, Dilip Nazareth, Martin Walshaw
- PA2906** **Access to health care is a human right: a focus group study in COPD patients regarding eHealth accessibility**  
Esther I. Metting (Groningen, Netherlands)
- PA2907** **Development of the iRECHARGE web application (app) for Pulmonary Rehabilitation (PR) in India using Design Thinking Process (DTP)**  
Shruti Sahasrabudhe (Pune (Maharashtra), India), Rashmi Padhye, Mark W Orme, Dipali Dhamdhare, Suryakant Borade, Meenakshi Bhakare, Nagesh Dhadge, Mahavir Modi, Zahira Ahmed, Andy Barton, Sundeep Salvi, Sally J Singh
- PA2908** **A wearable system for personal air pollution exposure: a walk-about in Milan**  
Sara Bernasconi (Varese, Italy), Alessandra Angelucci, Andrea Rossi, Andrea Aliverti
- PA2909** **The use of digital web-based video training for correct inhalation technique during the COVID-19 pandemic**  
Maximilian Wollsching-Strobel (Köln, Germany), Uta Butt, Daniel Majorski, Tim Mathes, Friederike Magnet, Doreen Kroppen, Melanie Berger, Sarah Schwarz, Wolfram Windisch
- PA2910** **Transforming Irish health care delivery through digital health technology with a global orientation – through the perspective lens of the service user**  
Tara Byrne (Ballinasloe (County Longford), Ireland), Niall Murray, Mary Mc Donnell-Naughton, Neil Rowan
- PA2911** **APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE: ANALYSIS OF ANDROID MARKETPLACE**  
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy
- PA2912** **QUALITY OF ANDROID APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE**  
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy
- PA2913** **HHT Virtual Imaging Case Conferences - A New Way Forward for Rare Disease Management**  
Dilini Vethanayagam (Edmonton (AB), Canada), Richard Owen, Hugo Bertozzi, Darshan Bakshi, Rohan Parab, Ani Mirakhur, Oliver Halliwell, Charlene Fell

**PS-20 in poster area****Session 294****12:30 - 14:00****Poster session: Multidisciplinary approach for interstitial lung disease of known cause****Disease(s) :** [Interstitial lung diseases](#)**Method(s) :** Imaging Epidemiology Endoscopy and interventional pulmonology General respiratory patient care Pulmonary function testing Physiology**Tag(s) :** Clinical**Chairs :** Claudia Ravaglia (Forlì, Italy), Davide Biondini (Padova, Italy)

- PA2914** **Prediction of mortality in SSc-ILD depends on definition of ILD progression**  
Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelytskab, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkekjær, Cathrine Brunborg, Cosimo Bruni, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carina Mihai, Øyvind Molberg, Oliver Distler
- PA2915** **Automatized quantification and progressive evaluation of SSc-ILD: a perspective from the PROFILE.net ERS Clinical Research Collaboration**  
Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Simon Van Eyndhoven, Jelle Praet, Dirk Smeets, Clio Ribbens, Béatrice André, Renaud Louis
- PA2916** **Nutritional parameters in ILD: correlation with functional test and CT**  
Eva Ailin Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Juan Enghelmayer, Florencia Santia, Ana Downey, Veronica Barcos, Gabriela Legarreta, Silvana Acuña, Alberto Case, Ana Putruele
- PA2917** **LUNG ULTRASONOGRAPHY HELPS RULE OUT INTERSTITIAL LUNG DISEASE IN PATIENTS WITH RHEUMATOID ARTHRITIS.**  
Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Marcos Rosemffet, Jonathan Balcazar, Miguel Perandones, Paola Ohauscio, Tomas Cazenave, Santiago Rossi, Sebastian Marciano, Emilce Schneeberger, Gustavo Citera
- PA2918** **Forced oscillation technique in progressive pulmonary fibrosis**  
Anna Denis (Liège, Belgium), Monique Henket, Hadrien Gillet, Laurie Giltay, Fanny Gester, Renaud Louis, Julien Guiot

- PA2919 Transbronchial lung cryobiopsy for the diagnosis of Fibrotic Hypersensitivity Pneumonitis**  
Pedro Magalhães Ferreira (Vila Nova de Gaia (District de Porto), Portugal), Francisco Machado, Hélder Novais-Bastos, Natália Melo, André Terras Alexandre, Patrícia Caetano Mota, Susana Guimarães, Conceição Souto-Moura, André Carvalho, António Morais
- PA2920 Pulmonary 18F-FDG up-take refines current risk stratification in non-specific interstitial pneumonitis (NSIP) and predicts response to treatment.**  
Sharenja Ratnakumar (London, United Kingdom), Hannah Torlot, Thida Win, Balaji Ganeshan, Nick Scream, Toby Maher, Francesco Fraioli, Raymond Endozo, Robert Shortman, Ashley Groves, Joanna Porter
- PA2921 Lung ultrasonographic findings and oxygen desaturation as markers of severity in diffuse parenchymal lung diseases**  
Ahmed Sadaka (Alexandria, Egypt), Asmaa Gomaa, Hoda Abdelgawad, Hanaa Shafiek, Eman Hatata, Nashwa Abdelwahab
- PA2922 Diagnostic value of transbronchial cryobiopsy in patients with suspicion of pulmonary graft-versus-host disease after allogeneic hematopoietic cell transplantation**  
Katrin Esther Hostettler (Basel, Switzerland), Kathleen Jahn, Joerg Halter, Andrei Darie, Daiana Stolz, Lukas Bubendorf, Christian Arranto, Jakob Passweg, David Winkel, Maurice Pradella, Spasenija Savic Prince, Michael Tamm
- PA2924 Long term evaluation of pulmonary function in systemic sclerosis associated interstitial lung disease (SSc-ILD)**  
Daniela Stefana Gologanu (Bucuresti (Sector 1), Romania), Marius Cotet, Simona Caraiola, Alina Dima, Daniela Popescu, Magda Parvu, Razvan Ionescu, Cristian Baicus, Valentin Nedelcu, Ion Ion, Marius Balea
- PA2925 SSc-ILD pulmonary function dynamics – is “normal” dangerous?**  
Marius-Alexandru Cotet (Bucuresti, Romania), Daniela Gologanu, Valentin Nedelcu, Ion Andrei Ion, Marius Ioan Balea, Daniela Popescu, Alina Dima, Magda Pârnu, Valer Pompilian, Doina Nițescu, Simona Caraiola, Răzvan Ionescu, Camelia Badea, Larisa Pinte, Cristian-Răsvan Băicuș
- PA2926 Overt and covert airflow limitations in DPLD: a spirometric appraisal**  
Sayanti Karmakar (KOLKATA, India), Sayoni Sengupta, Avishek Kar, Debkanya Dey, Shuvam Ghosh, Dipanjan Saha, Arindam Mukherjee, Parthasarathi Bhattacharyya
- PA2927 Evaluation of lung function referral and testing in the context of Interstitial Lung Disease (ILD).**  
Calvin Apen (Doncaster (South Yorkshire), United Kingdom), Muhammad Khan
- PA2928 Diagnostic performance of the hypersensitivity pneumonitis guidelines in a real-life multicenter cohort**  
Avraham Unterman (Tel Aviv, Israel), Ophir Freund, Yitzhac Hadad, Tamar Shalmon, Ori Wand, Sonia Schneer, Tal Moshe Perluk, Eyal Kleinhendler, Tzvil Hershko, Boaz Tiran, Evgeni Gershman, Yochai Adir, David Shitrit, Amir Bar-Shai
- PA2929 Clinical characteristics and changes in pulmonary function tests of rheumatoid arthritis-associated lung diseases: A 10-year retrospective study from a tertiary referral center in Southern Thailand**  
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong, Nunthamon Wonghirundecha, Sarayut Lucien Geater
- PA2930 Radiological features of myositis-related ILD and implications for disease course**  
Cara M Gill (Dublin, Ireland), Brian Gaffney, Brian Sheehy, Marissa O'Callaghan, Leah Rooney, Eamonn Molloy, Jonathan D Dodd, David J Murphy, Emmet Mc Grath, Michael P Keane, Cormac Mc Carthy
- PA2931 Multidisciplinary collaboration for correct diagnosis and correct treatment in interstitial lung disease associated with connective tissue diseases**  
Nesrin Öcal (Ankara, Turkey), Emre Tekgöz, Seda Çolak, Ezgi Çimen Güneş, Deniz Doğan, Muhammet Çınar, Yakup Arslan, Cantürk Taşçı
- PA2932 Management of connective tissue disease related interstitial lung diseases in a district general hospital.**  
Alex Francioni (Luton, United Kingdom), Natasha Ramsundar, Muhammad Nisar, Vijay Joshi, Judeson Gnanapragasam

PS-3 in poster area

Session 295

12:30 - 14:00

Poster session: Long-term home ventilatory support: goals and outcomes

Disease(s) : Respiratory critical care Sleep and breathing disorders Airway diseases

Method(s) : Pulmonary rehabilitation General respiratory patient care Respiratory intensive care Epidemiology Physiology  
Pulmonary function testing

Tag(s) : Clinical

Chairs : Peter J. Wijkstra (Groningen, Netherlands), Chloé Cantero (Paris, France)

- PA2933 Can health-related quality of life predict mortality in home mechanical ventilated patients?**  
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Carla Ribeiro, Cristina Jácome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes

- PA2934 Long-term health-related quality of life in patients on home mechanical ventilation**  
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Carla Ribeiro, Cristina Jácome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes
- 
- PA2935 - German Version of the S3-NIV Questionnaire - Translation, Cultural adaptation and Validation of a simple tool for the assessment of home noninvasive ventilation**  
Daniel Majorski (Cologne, Germany), Axel Kuck, Doreen Kroppen, Sarah Schwarz, Maximilian Wollsching-Strobel, Friederike Magnet, Tim Mathes, Wolfram Windisch
- 
- PA2936 Perceived health-related benefits and side effects of long-term Home Mechanical Ventilation in an outpatient setting**  
Diana Amorim (Maia, Portugal), Leonor Roseta, Cristina Jacome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro
- 
- PA2937 Understanding the outcomes that matter to Patients and what influences these: An International Survey of Patients Treated by Home Mechanical ventilation (HNV)**  
Judith Livingston (Paris, France), Manuella Schaller, Cecile Delval
- 
- PA2938 Patients' perception of home mechanical ventilation benefits and side effects: does disease play a role?**  
Leonor Roseta (Calvão – Vagos, Portugal), Diana Amorim, Cristina Jácome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro
- 
- PA2939 Cardiomyopathy as cause of death in Duchenne muscular dystrophy – a longitudinal observational study**  
Joël Julien Herzig (Zürich, Switzerland), Annabel Lechner, Jacqueline Gabriela Kientsch, Silvia Ulrich, Esther Irene Schwarz
- 
- PA2940 Survival of multiple sclerosis patients requiring positive airway pressure and/or mechanical insufflation-exsufflation.**  
Anastasia Krompa (London, United Kingdom), Neeraj Mukesh Shah, Michael Cheng, Rebecca Francesca D'Cruz, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Brian Murphy, Georgios Kaltsakas
- 
- PA2941 Determining factors affecting survival in a hospital-based motor neurone disease population on domiciliary NIV**  
Revati Naran (London, United Kingdom), Swapna Mandal
- 
- PA2942 Predictors of survival at initiation of non-invasive ventilation in amyotrophic lateral sclerosis**  
Sophie Madden-Scott (London, United Kingdom), Neeraj Shah, Anne Rossel, Bawan Abdulaziz, Shauna Sheridan, Michael Cheng, Rebecca D'Cruz, Philip Marino, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Murphy, Michelle Ramsay, Georgios Kaltsakas
- 
- PA2943 Surgical outcomes in patients on home mechanical ventilation**  
Jan De Mey (Ghent, Belgium), Lauren Heyman, Luc De Baerdemaeker, Eric Derom
- 
- PA2944 Successful tracheostomy decannulation in patients with neuromuscular disorders: long-term follow-up**  
Wonah Choi (Seoul, Republic of Korea), Chan Woong Jang, Han Eol Cho, Miri Suh, Su Hyun Cho, Inyeop Kim, Seong-Woong Kang
- 
- PA2945 Pulmonary rehabilitation (PR) referral of COPD patients established on home NIV**  
Léa Razakamanantsoa (Paris, France), Typhaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout
- 
- PA2946 Home Non Invasive Ventilation (H-NIV) Patient Characteristics and Outcomes: Observational study in a teaching hospital in the UK**  
Hannah Bardsley (Norwich, United Kingdom), Kashvin Kumar Ram Kumar, Vicky Ershadi, Georgina Siggins, Prasanna Sankaran
- 
- PA2947 Long-term Noninvasive Ventilation for COPD patients following an exacerbation with acute hypercapnic respiratory failure: a randomized controlled trial**  
Jon Torgny Rostrup Wilcke (København Ø, Denmark), Caroline Hedsund, Kasper Linde Ankjærgaard, Tine Peick Sonne, Philip Tønnesen, Ejvind Frausing Hansen, Helle Frost Andreassen, Ronan M. G. Berg, Jens-Ulrik Stæhr Jensen
- 
- PA2948 Prognostic indicators of Non-Invasive Ventilation dependence in Duchenne muscular dystrophy**  
Kenki Matsumoto (London, United Kingdom), Carrie Hallam, Michael Polkey, Shruthi Konda
- 
- PA2949 Cognitive impairment in patients non-concordant with domiciliary non-invasive ventilation: A service evaluation**  
Ashleigh Thorn (London, United Kingdom), Stephanie Mansell, Eleanor Main
- 
- PA2950 Long term survival in ALS patients with Home Tracheostomy Mechanical Ventilation**  
Mariam García Alfaro (Peralta, Spain), Andrea Ballester Ferriz, Jesús Sancho Chinesta, Santos Ferrer Espinosa, Jaime Signes-Costa Miñana

**PA2951 Intermittent abdominal pressure ventilation in management of neuromuscular diseases: a Delphi panel consensus**  
Anna Annunziata (Napoli (NA), Italy), Francesca Simioli, Antonella Marotta, Antonietta Coppola, Rosa Cauteruccio, Francesco De Simone, Paola Pierucci, Paolo Banfi, John R. Bach, Giuseppe Fiorentino

**PA2952 Intermittent abdominal pressure ventilation: efficacy in neuromuscular diseases.**  
Antonietta Coppola (Napoli, Italy), Anna Annunziata, Maria Rosaria Valentino, Simioli Francesca, Cauteruccio Rosa, Angela Mirizzi, Roberto Rega, Giuseppe Fiorentino

## PS-4 in poster area

## Session 296

12:30 - 14:00

## Poster session: Towards the identification of new biomarkers in pulmonary diseases

**Disease(s) :** Airway diseases Interstitial lung diseases Sleep and breathing disorders Thoracic oncology Respiratory critical care

**Method(s) :** Cell and molecular biology Epidemiology Pulmonary function testing Respiratory intensive care Public health

**Tag(s) :** Translational

**Chairs :** Nikolaos I. Kanellakis (Oxford, United Kingdom), Kinan El Husseini (Paris, France)

**PA2953 Oxidized low density lipoprotein mediates NLRP3 activation in patients with sleep apnea and early subclinical atherosclerosis.**  
Elena Díaz García (Madrid, Spain), David Sanz Rubio, Sara García-Tovar, Enrique Alfaro, Pablo Cubero, Ana V Gil, José M. Marín, Carolina Cubillos Zapata, Francisco García-Río

**PA2954 Influence of the therapeutic approach in the metabolomic profile evolution of Lung Adenocarcinoma patients**  
Daniela Sofia Madama Santos Silva (Coimbra, Portugal), David Carrageta, Pedro Oliveira, Marco Alves, Ana Margarida Abrantes

**PA2955 Human bronchial and alveolar epithelial cells respond differently to hypoxia and profibrotic stimuli**  
Martin Garcia-Ryde (Lund, Sweden), Rebecca Berggren-Nylund, Anna Löfdahl, Arturo Ibáñez-Fonseca, Monica Kåredal, Gunilla Westergren-Thorsson, Ellen Tufvesson, Anna-Karin Larsson-Callerfelt

**PA2956 Real-time breath volatilomics analysis by soft Ionisation Mass Spectrometry**  
Shahd Abuhelal (London, United Kingdom), Kenneth Robinson, Zoltan Takats, Salman Siddiqui

**PA2957 Optimisation of DNA extraction from nasal lining fluid to assess the nasal microbiome**  
Samuel Montgomery (Leederville (WA), Australia), Jose Caparrós-Martín

**PA2958 Predicting the efficiency of the treatment of comorbidity diabetes mellitus and multidrug-resistant tuberculosis depending on the polymorphism variation of glutathione-S-transferase genes**  
Lilía Todoriko (Chernivtsi, Ukraine), Ihor Semianiv, Liliia Todoriko, Marianna Semianiv, Mykola Garas

**PA2959 Hypoxia-induced metabolic response in obstructive sleep apnoea patients is influenced by sphingomyelin levels**  
Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veeväli, Ragne Tamm, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Roman Pihlakas, Kalle Kilk, Ursel Soomets, Alan Altraja

**PA2960 Investigation into the Plasma Proteome Signature in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS)**  
Johanna Squires (Worcester, United States), Sarra Al-Zayer, Peng Li, Wenzhong Xiao, David System

**PA2961 Minimally invasive autopsy as a tool for lung molecular study**  
Sabrina Setembre Batah (Ribeirão Preto, Brazil), Alexandre Fabro

**PA2962 Metabolomics of blood plasma from critically ill patients with suspected ventilator-associated pneumonia**  
Waqar Ahmed (Manchester, United Kingdom), Adam Burke, Nigel Gotts, Poulina Van Oort, Jonathan Bannard-Smith, Ben Morton, Ingeborg Welters, Ronan McMullan, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler

**PA2963 Metabolomic analysis of exhaled breath can rule out ventilator-associated pneumonia (VAP) in critically ill patients**  
Waqar Ahmed (Manchester, United Kingdom), Iain White, Poulina Van Oort, Nicholas Rattray, Callum Docherty, Jonathan Bannard-Smith, Ben Morton, Ingeborg Welters, Ronan McMullan, Stephen Roberts, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler

**PA2964 CFTR modulator therapy partially resolves inflammation in CF lung disease**  
Rosemary Maher (Liverpool, United Kingdom), Peter Barry, Edward Emmott, Andrew Jones, Lijing Lin, Paul Mcnamara, Jaclyn Smith, Robert Lord

**PA2965 Comparative analysis of macrolide antibiotics effects on bronchial epithelial cell differentiation in vitro**  
Arni Asbjarnarson (Reykjavik, Iceland), Fridrik Runar Gardarsson, Jon Petur Joelsson, Bryndis Valdimarsdottir, Ari Jon Arason, Snaevar Sigurdsson, Jennifer Krickler, Thorarinn Gudjonsson

- PA2966** **BBS1 and BBS7 gene expression profile in mesothelial cells during hyperosmotic stress.**  
Rajesh Jagirdar (Larissa, Greece), Erasmia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsious, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotirios Zarogiannis
- PA2967** **miRNA identification in Particles in Exhaled Air (PExA) to study lung diseases**  
Martina Bonatti (Solna, Sweden), Monika Ezerskyte, Pia Lindberg, Åsa Maria Wheelock
- PA2968** **Development and validation of in vitro human inhalation toxicity tests for volatile liquids, mists, and sprays**  
Jan Markus (Bratislava, Slovakia), Yulia Kaluzhny, George R. Jackson, Paul Kearney, Silvia Letasiova, Mitchell Klausner, Alex Armento
- PA2969** **Late Breaking Abstract - Circulating ITGB6 levels are elevated in patients with IPF and reduced following lung transplant**  
Martin Decaris (South San Francisco, United States), Martin Decaris, Erine Budi, Prerna Kotak, Susan Jacobs, Tushar Desai, Scott Turner
- PA2970** **Inhaled cannabis product methods for in vitro toxicological assessment**  
Emily Wilson (Montreal, Canada), Maddison Arlen, Rui Lui, Ryan Pusiak, Percival Graham, David Eidelman, Cory Harris, Carolyn Baglole
- PA2971** **Consensus clustering with missing labels (ccml): a consensus clustering tool for multi-omics integrative prediction in cohorts with unequal sample coverage**  
Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Hongyan Chen, C. Magnus Sköld, Meng Zhou
- PA2972** **Impact of host DNA depletion in human upper respiratory microbiome investigations**  
Ekanayake Mudiyansele Udani Anuradha Ekanayake (Hull, United Kingdom), Angela Oates, Simon Hart, Laura Sadofsky

## PS-5 in poster area

## Session 297

12:30 - 14:00

## Poster session: Mechanisms of allergic airway disease

Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology Physiology Pulmonary function testing Imaging

Tag(s) : Translational

Chairs : Amanda Oliver (Cambridge, United Kingdom), Thomas Wilkinson (Southampton (Hampshire), United Kingdom)

- PA2973** **Multiplex protein quantification per cell type in bronchoalveolar lavage cytospin cells using NanoStrings GeoMx**  
Nicole van der Burg (Lund, Sweden), Martin Ryde, Jaro Ankerst, Leif Bjermer, Ellen Tufvesson
- PA2974** **Metabolomic Profiling in a Mouse Model of Menopause-Associated Asthma.**  
Julie Ledford (Tucson, United States), William Pederson, Laurie Ellerman, Yan Jin, Haiwei Gu
- PA2975** **Rac GTPase dependent cell signaling drives eosinophilic function in severe asthma.**  
Hugo BERGERÉAU (Nantes, France), Dorian Hassoun, Morgane Rousselle, Marie-Aude Cheminant, Carole Brosseau, Nicolas Jouand, Christine Sagan, Grégory Bouchaud, Sophie Brouard, François-Xavier Blanc, Gervaise Loirand, Vincent Sauzeau
- PA2976** **Different subtypes of eosinophils between asthma and COPD in bronchial tissue.**  
Alejandra Sánchez-Santos (Las Palmas de Gran Canaria, Spain), Carlos Cabrera-López, Angelina Lemes-Castellano, Sara Cazorla-Rivero, Enrique González-Dávila, Bartolomé Bartolomé, Ciro Casanova-Macario
- PA2977** **LSC - 2023 - Eosinophil subtypes affect airway smooth muscle cells migration and ECM-related proliferation in asthma**  
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacionyte, Ieva Janulaityte, Greta Seskaite, Kestutis Malakauskas
- PA2978** **WISP-1 stimulates the accumulation of nuclear factor erythroid-2 related factor 2 (NRF2) into the nucleus of airway smooth muscle cells from patients with asthma and COPD**  
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Eleni Papakonstantinou, Daiana Stolz
- PA2979** **Collagen turnover in airway smooth muscle cells is mediated by WISP-1 differently in asthma and in COPD**  
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Charikleia Ntenti, Eleni Papakonstantinou, Daiana Stolz
- PA2980** **WISP-1 promotes proliferation and migration of airway smooth muscle cells from patients with asthma and COPD**  
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Eleni Papakonstantinou, Daiana Stolz

- PA2981** **Role of nesprin-1 in STAT3 nuclear import of human airway smooth muscle cells**  
Dale Tang (Albany, United States), Ruping Wang, Guoning Liao
- 
- PA2982** **Relating Type 2 status to steroid exposure, cytokine expression and symptoms**  
Vincent Brennan (Dublin, Ireland), Christopher Mulvey, Lorna Lombard, Elaine Mac Hale, Patrick Kerr, Garrett Greene, Richard Costello
- 
- PA2983** **IL-33 drives airway remodeling by promoting mixed inflammation and pro-fibrotic pathways**  
Seblewongel Asrat (Tarrytown, United States), Subhashini Srivatsan, Brianna Buonagurio, Kirsten Nagashima, George Scott, Kaitlyn Gayvert, Wei Keat Lim, Dylan Birchard, Li-Hong Ben, Audrey Floc'H, Andrew Murphy, Matthew Sleeman, Jamie Orengo
- 
- PA2984** **Neuroimmune interactions and neuroplasticity in fatal asthma**  
Guilherme Dragunas (Munich, Germany), Natalia De Souza Xavier Costa, Reinoud Gosens, Carolina Demarchi Munhoz, Thais Mauad
- 
- PA2985** **Overexpression of miR-29b-3p in bronchial biopsies from individuals with asthma coincides with lower levels of soluble ST2 in bronchial lavage fluid**  
Jenny Calvén (Gothenburg, Sweden), Carina Malmhäll, Christopher Mccrae, Kristina Johansson, Henric Olsson, Madeleine Råding
- 
- PA2987** **Fibrocytes induced airway epithelial dysfunction in severe T2-high asthma by producing T2 cytokines**  
Chih-Ming Weng (Taipei, Taiwan), Meng-Jung Lee, Yuh-Rong Lin, Mei-Chuan Chen, Wei-Ciao Wu, Han-Pin Kuo
- 
- PA2988** **Anisakis extract induces inflammation process: in vitro and ex-vivo study**  
Serena Di Vincenzo (Palermo (PA), Italy), Maria Ferraro, Valentina Lazzara, Paola Pinto, Ignazio Brusca, Vincenzo Ferrantelli, Gaetano Cammilleri, Elisabetta Pace
- 
- PA2989** **Intravital imaging of mucus transport after mucolytic treatment in IL-13-treated mice**  
Mario Pieper (Lübeck, Germany), Inken Schmutde, Hinnerk Schulz-Hildebrandt, Martin Ahrens, Gereon Hüttmann, Peter König
- 
- PA2990** **Quercetin modulate expression of paraoxonase 2 in human airways epithelial cells by inducing expression of nuclear factor like 2 (Nfr2)**  
Daniel Winnica (Aurora, United States), Shuyu Ye, Fernando Holguin
- 
- PA2991** **Effects of dexamethasone on human stem cell-derived peripheral cholinergic neurons**  
Guilherme Dragunas (Munich, Germany), Pien Goldsteen, Carli Koster, Marina Trombetta Lima, Sophie T Bos, Carolina Demarchi Munhoz, Reinoud Gosens
- 
- PA2992** **The IL23-Th17 axis in neutrophilic airway inflammation**  
Barsha Baisakhi Nayak (Graz, Austria), Iris Red, Juliana Schwanzer, Julia Teppan, Ilse Lanz, Melanie Kienzl, Akos Heinemann, Philipp Douschan, Eva Sturm

## PS-6 in poster area

## Session 298

12:30 - 14:00

## Poster session: Cardiovascular-related aspects and non-positive airway pressure treatment of sleep-disordered breathing

Disease(s) : Sleep and breathing disorders

Method(s) : General respiratory patient care Physiology Pulmonary rehabilitation Epidemiology Public health Respiratory intensive care

Tag(s) : Clinical

Chairs : Richard Staats (Lisbon, Portugal), Georgia Trakada (Patra, Greece)

- PA2993** **Prevalence and characteristics of sleep apnea syndrome in heart failure patients**  
syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lillia Zakhama, Mohamed Ridha Charfi
- 
- PA2994** **Sleep apnea screening questionnaires in heart failure patients**  
syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi
- 
- PA2995** **Predictive factors of moderate to severe sleep apnea syndrome in heart failure**  
syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi

- PA2996** **Temporal association of ventricular arrhythmias and respiratory events in heart failure patients with CSA**  
Valentin Guenzler (Regensburg, Germany), Michael Arzt, Marjorie Grimm, Amélie Ebert, Florian Zeman, Dominik Linz, Holger Woehrle, Renaud Tamisier, Martin R Cowie, Christoph Fisser
- PA2997** **Resolution of ST deviation in patients with and without sleep disordered breathing early after acute myocardial infarction**  
Aya Kassim (Regensburg, Germany), Michael Arzt, Henrik Fox, Clemens Wiest, Stefan Buchner, Stefan Stadler
- PA2998** **Obstructive sleep apnea and ischemic ECG changes in Mauritius**  
Ulf Nilsson (Umeå, Sweden), Anders Blomberg, Paul Zimmet, Jaakko Tuomilehto, Dianna Magliano, George Alberti, Sudhir Kowlessur, Jonathan Shaw, Abdonas Tamosiunas, Stefan Söderberg
- PA2999** **Trajectories of daytime sleepiness post-ischemic stroke and TIA: a propensity score matching study**  
Sébastien Baillieul (Grenoble CEDEX 9, France), Renaud Tamisier, Bastien Gevaudan, Sarah Alexandre, Olivier Detante, Yves Dauvilliers, Claudio Bassetti, Jean-Louis Pépin, Sébastien Bailly
- PA3000** **Hypoxic Burden in patients with Obstructive Sleep Apnoea: Correlation with sleepiness, polygraphic parameters and cardiovascular risk factors**  
Thais Beauperthuy Levy (Valencia, Spain), Grace Jacqueline Oscullo Yopez, Marina Inglés Azorin, Jose Gomez Olivas, Amina Bekki, Sergio Mompean Rodríguez, Rosalía Martínez Perez, Alberto García Ortega, Miguel Ángel Martínez García
- PA3001** **Predictors of nocturnal hypoxemic burden in patients with severe coronary artery disease**  
Michael Arzt (Regensburg, Germany), Verka Blagoeva, Maximilian Trum, Philipp Hegner, Bernhard Floerchinger, Daniele Camboni, Marcus Creutzenberg, Florian Zeman, Christof Schmid, Lars S Maier, Maria Tafelmaier
- PA3002** **Time spent with saturation below 80% versus 90% as predictive values for cardiovascular risk in patients with obstructive sleep apnoea**  
Stefan Mihaicuta (Timisoara (Timis), Romania), Mariela Romina Birza, Stefan Frent, Alina Mirela Popa, Loredana Gligor, Martina Meszaros, Andras Bikov
- PA3003** **Pharmacotherapeutic profile of sleep apnea patients**  
Stefan Mihaicuta (Timisoara (Timis), Romania), Mihai Udrescu, Adrian Militaru, Alexandru Topirceanu, Lucretia Udrescu
- PA3004** **Sleep-wake cycle and the burden of comorbidities in patients with and without obstructive sleep apnoea**  
Salman Qayum (Manchester, United Kingdom), Laura Melissari, Balazs Csoma, Maria Mascareno Ponte, John Blaikley, Mahmoud Barakat, Andras Bikov
- PA3005** **Impact of a sleep intervention program on anxiety and depression in patients with Chronic Musculoskeletal Pain**  
Sofia Romero Peralta (Madrid, Spain), Pilar Resano Barrio, Gloria Hernando Benito, Esther Solano Pérez, Carlota Coso, Laura Silgado Martínez, Juan Fernando Masa, Sonia López Monzoni, Leticia Álvarez Balado, María Esther Viejo Ayuso, Rosa Mediano San Andrés, María Castillo García, Olga Mediano
- PA3007** **Efficacy of positional therapy in patients with positional obstructive sleep apnea: a retrospective study to investigate predictive factors in successful adaptation**  
Angela Bellofiore (Milano (MI), Italy), Federica Bonavoglia, Giulia Pennacchini, Carlo Magnoni, Marco Mantero
- PA3008** **Short-term effectiveness of positional obstructive sleep apnoea therapy (SOMNIBEL®): An observational study**  
Ana Reyes Pardessus Otero (Barcelona, Spain), Paula Pujal Montaña, Inés Podzamczar Valls, Judit Gutiérrez Anguita, Marta Blanco Bejar, Marta Gutiérrez Rouco, Ana M<sup>a</sup> Fortuna Gutiérrez, Mercedes Mayos Pérez
- PA3009** **An audit to increase the efficiency of mandibular advancement splint (MAS) referrals to a hospital orthodontic department.**  
Matthew Holder (London, United Kingdom), Emma Weston, Guanhong Li, Lucy Davenport-Jones, Safoora Keshtgar
- PA3010** **Use of the ExVent accessory with the O2Vent Optima oral appliance for the treatment of obstructive sleep apnea – A clinical trial**  
Sat Sharma (Toronto (ON), Canada), Antonella Conflitti
- PA3011** **Long-term cephalometric analyses during treatment with mandibular advancement device (MAD) in patients treated for OSA**  
Jean-Baptiste Kerbrat (, France), Yamina Ibn Mejd, Marie Mercier, Elodie Aversenq, Florent Lavergne
- PA3012** **Mandibular advancement device efficacy as a therapeutic alternative treatment in patients with OSA and CPAP intolerance after 3 years of follow up**  
Sara Gonzalez Castro (Tres Cantos (Madrid), Spain), Laura Pozuelo Sánchez, Ignacio Jara Alonso, Andrea Pérez Figuera, Alfonso Muriel García, Alberto Carreño Alejandre, María Parra Jarque, Lorena Delgado Vera-Pinto, Aldara García Sánchez, Irene Cano Pumarega, Eva Mañas Baena

Disease(s) : Airway diseases Respiratory critical care

Method(s) : General respiratory patient care Cell and molecular biology Epidemiology Respiratory intensive care Imaging

Tag(s) : Clinical

Chairs : Sachin Ananth (London, United Kingdom), Charlotte Suppli Ulrik (Virum, Denmark)

PA3013	<b>Increased risk of severe cardiovascular events following exacerbations of COPD: a multi-database cohort study</b> Claus Vogelmeier (Marburg, Germany), Sami Simons, Edeltraut Garbe, Don Sin, Nathaniel Hawkins, Nicolas Manito, Salud Santos, Karin Polinder, Muriel Lobier, Paul Ekwaru, Nils Kossack, Ignacio Hernandez, Hana Mullerova, Arsh Randhawa, Lindy Van Burk, Joaquin Sanchez-Covisa, Kirsty Rhodes, Clementine Nordon, On Behalf Of The Exacos-Cv Study Group
PA3014	<b>Respiratory specialist visit before admission with a COPD exacerbation may affect management and outcomes.</b> Ophir Freund (Tel Aviv, Israel), Boaz Tiran, Eyal Kleinhendler, Evgeni Gershman, Avishay Elis, Amir Bar-Shai
PA3015	<b>In-hospital antibiotic use for severe chronic obstructive pulmonary disease exacerbations: a retrospective observational study</b> Lies Lahousse (Ghent, Belgium), Anna Vanoverschelde, Chloë Van Hoey, Franky Buyle, Nadia Den Blauwen, Pieter Depuydt, Eva Van Braeckel
PA3016	<b>FREQUENCY OF OCCURRENCE AND GENE-SEROTYPE CHARACTERISTIC OF STREPTOCOCCUS PNEUMONIAE IN COHORT OF PATIENTS WITH COPD.</b> Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko
PA3017	<b>Predictive factors for the occurrence of COPD exacerbations</b> Meriam Nemleghi (Ariana, Tunisia), Hela Kamoun, Bochra Karaborni, Hadhemi Rejeb, Dorra Greb, Hajer Abdelghaffar, Ines Akrouf, Hela Hassene, Leila Fekih, Hanene Smadhi, Mohamed Lamine Meghdiche
PA3018	<b>One-year mortality and readmission rate following hospitalization for acute exacerbation of chronic obstructive pulmonary disease based on the types of acute respiratory failure</b> Hong-Joon Shin (Gwangju, Republic of Korea), Bo Gun Kho, Young-Ok Na, Jae-Kyeong Lee, Tae-Ok Kim, Yong-Soo Kwon, Yu-Il Kim, Sung-Chul Lim
PA3019	<b>Tapering courses of oral corticosteroids after hospital admission due to asthma exacerbation</b> Richard Russell (Leicester, United Kingdom), Meghna Ray, Hamza Yaqub, Anna Murphy
PA3020	<b>Inhaled corticosteroid might not affect clinical outcomes of pneumonia in patients with chronic obstructive pulmonary disease</b> Inso Cho (Wonju, Republic of Korea), Min-Seok Chang, Ji-Ho Lee
PA3021	<b>Inhaled versus systemic corticosteroids in COPD exacerbations: a meta-analysis.</b> Efthymia Papadopoulou (Thessaloniki, Greece), Sulaiman Bin Safar, Ali Khalil, Ran Wang, Konstantinos Kostikas, Stavros Tryfon, Jørgen Vestbo, Alexander G. Mathioudakis
PA3022	<b>Better Response to Tanreqing Injection in Frequent Acute Exacerbation of Chronic Obstructive Pulmonary Disease (AECOPD) Patients—Real-World Evidence from a Nationwide Registry (ACURE) Study</b> Guohui Fan (Beijing, China), Dingyi Wang, Sinan Wu, Ting Yang
PA3023	<b>Systemic inflammation and exacerbations are associated with serum vitamin D levels in a cohort of patients with COPD, group E</b> Apostolos Sioutas (Athens, Greece), Petra Kristina Jacobson, Hans Lennart Persson
PA3024	<b>Validation of an EMR derived algorithm to identify moderate asthma exacerbations in the UK</b> Kieran J. Rothnie (London, United Kingdom), Robert Wood, Theo Tritton, Beade Numbere, Mark Small, Claire Trennery, Rosie Wild, David Slade, Shiyuan Zhang, Chris Compton, Gema Requena, Stephen Noorduyn, Afisi Ismaila, Emma Goodall
PA3025	<b>A prospective study of inhaled therapy prescribing, pMDI technique assessment, and inhaler concordance amongst hospitalised patients with airways disease</b> Luanne Lai (Middlesbrough, United Kingdom), Bethany Cockerill, Emma Lunn, Reem Abdelgadir, George Antunes
PA3026	<b>COPD Patients Admitted to Hospital: A Missed Opportunity to Optimise Care?</b> Alicia Piwko (London, United Kingdom), Maeve Savage, Alyson Tee, Karina Gukhool, Gráinne D'Ancona, Amy Dewar
PA3027	<b>Interpreting the significance of collagen-IV level changes in bronchoalveolar fluid in acute COPD exacerbation before and after tiotropium bromide treatment</b> Mariana Kulynych-Miskiv (Galych, Ukraine), Mykola Ostrovskyy, Vasyl Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Kostiantyn Shvets, Alla Zuban, Nadiia Korzh, Olga Molodovets, Galyna Korzh
PA3028	<b>A Comparative Study to Evaluate the Efficacy/Outcome of Non-invasive Positive Pressure Ventilation through Mechanical Ventilator and conventional BiPAP in Patients of Hypercapnic Respiratory Failure</b> Aman Ahuja (Vellore, India), Manoharlal Gupta, Sanjay Sogani



- PA3029** **A Simple Clinical Risk Score (A2CDPS) for Predicting Mortality in Patients with AECOPD and Cardiovascular Diseases**  
Jiarui Zhang (chengdu, China), Haixia Zhou, Qun Yi, Chen Zhou, Yuanming Luo, Hailong Wei, Huiqing Ge, Huiguo Liu, Jianchu Zhang, Xianhua Li, Pinhua Pan, Mengqiu Yi, Lina Cheng, Liang Liu
- PA3030** **Medical errors in the use of antibacterial drugs of the cephalosporin group at the outpatient stage of the treatment of respiratory pathology**  
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova
- PA3031** **Bronchodilators delivered via high-flow nasal cannula (HFNC) in adults with moderate-severe asthma exacerbation admitted to the emergency department (ED)**  
Nico Colaianni Alfonso (Buenos Aires, Argentina), Guillermo Cesar Montiel, Ada Toledo, Mauro Castro-Sayat, Mariano Techera
- PA3032** **Characteristics of exacerbations in patients with severe, uncontrolled asthma who received tezepelumab versus placebo**  
Arnaud Bourdin (Montpellier Cedex 5, France), Michael E Wechsler, Christopher E Brightling, Stephanie Korn, Guy Brusselle, Liam G Heaney, Sandhia Ponnarambil, Gillian Hunter, Andrew W Lindsley, Christopher S Ambrose

## PS-8 in poster area

## Session 300

12:30 - 14:00

## Poster session: New frontiers in chronic cough, a1-antitrypsin deficiency, and airway diseases endoscopy

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Epidemiology General respiratory patient care Cell and molecular biology Endoscopy and interventional pulmonology Surgery Imaging Physiology Pulmonary function testing

Tag(s) : Clinical

Chairs : Gaetano Caramori (Messina (ME), Italy), Mikael Adner (Stockholm, Sweden)

- PA3033** **Efficacy and safety of gefapixant for treatment of refractory or unexplained chronic cough: a systematic review and dose-response meta-analysis**  
Elena Kum (Hamilton, Canada), Matthew Patel, Nermin Diab, Mustafaa Wahab, Dena Zeraatkar, Derek Chu, Gordon Guyatt, Paul O'Byrne, Imran Satia
- PA3034** **Relevance of cough in patients with severe asthma: Analysis from the Korean Severe Asthma Registry (KoSAR) study**  
Hwa Young Lee (Seoul, Republic of Korea), Youngsoo Lee, Seung-Eun Lee, Da Woon Sim, Noeul Kang, Byung-Jae Lee, Joo-Hee Kim, Sung-Yoon Kang, Ga-Young Ban, Young Hee Nam, Sujeong Kim, Chan Sun Park, So Ri Kim, Jin An, Byung Keun Kim, Heung-Woo Park, Taehoon Lee, Ji-Ho Lee, So-Young Park, Sook Young Lee, Hae-Sim Park, You Sook Cho, Sang-Heon Kim, Woo-Jung Song
- PA3035** **Early cough severity changes over the first 4 weeks of treatment with gefapixant in two phase 3 studies**  
Surinder S. Biring (London, United Kingdom), Peter Dicipinigaitis, Alyn Morice, Qing Li, Eduardo Urdaneta, George Philip, Carmen La Rosa
- PA3036** **Demographics and subjective cough outcomes of guideline-based treatment in the McMaster Cough Clinic.**  
Mustafaa Wahab (Hamilton, Canada), Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia
- PA3037** **Cough responses to inhaled hypotonic solutions correlate with other measures of refractory chronic cough**  
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Rachel Dockry, Maria Belvisi, Michael Wortley, Sara Bonvini, Eric Dubois, Shannon Galgani, Kimberley Holt, Shilpi Sen, Phil Turner, Paul Czyzyk, Paul Marsden, Jacky Smith
- PA3038** **Does the type of Inhaler matter in cough variant or cough predominant asthma?**  
Marta Dąbrowska (Warszawa, Poland), Elzbieta M. Grabczak, Katarzyna Białek-Gosk, Dominika Siwik, Wojciech Apanasiewicz, Rafał Krenke
- PA3039** **Patient-reported cough severity in women with chronic cough and stress urinary incontinence treated with gefapixant**  
Peter Dicipinigaitis (New York, United States), Surinder S. Biring, Linda Cardozo, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman
- PA3040** **Association of changes in self-reported cough severity and cough-induced stress urinary incontinence (phase 3b gefapixant trial)**  
Peter Dicipinigaitis (New York, United States), Surinder S. Biring, Linda Cardozo, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman

- PA3041** **Burden of disease in a phase 3b trial of gefapixant in women with chronic cough and stress urinary incontinence**  
Surinder S. Birring (London, United Kingdom), Linda Cardozo, Peter Dicipinigaitis, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman
- PA3042** **Surfactant found in cleaning products, 4-tert-octylphenol, causes airway sensory nerves firing and airway smooth muscle contraction**  
Billy Peter Baxter (London, United Kingdom), Sara J. Bonvini, Michael A. Wortley, Eric D. Dubuis, John J. Adcock, Fisnik Shala, James Bolaji, Mark A. Birrell, Teresa D. Tetley, Maria G. Belvisi
- PA3043** **Adherence to inhaled corticosteroids in patients with asthma prior to and during the first 12 months of COVID-19 pandemic**  
Miguel Santibañez Margüello (Santander (Cantabria), Spain), Isabel Rodríguez, Juan Carlos Com López-Caro, Silvia Gonzalez-Carranza, Maria Elena Cerrato, Maria Mar De Prado, Francisca Gomez-Molleda, Margarita Pinel, Maria Teresa Saiz, Carmen Fuentes, Juan Luis García-Rivero
- PA3044** **Comparing neuronal phenotypes in two preclinical models of chronic lung disease**  
Jonathan H. A. Miles (Hatfield, United Kingdom), Sara J. Bonvini, Michael A. Wortley, James W. Pinkerton, Sabina Issop, Charlotte E. Healey, Mark A. Birrell, Maria G. Belvisi
- PA3045** **Investigating the efficacy of a NaV1.7 channel blocker on airway sensory nerve activation and cough**  
Sara Jane Bonvini (London, United Kingdom), Fisnik Shala, John Adcock, Michael Wortley, Ranganath Gopalakrishnan, Stuart Francis, Ramon Hendrickx, Marianna Stamou, Linda Fröderberg Roth, Edward Humphries, Cristina Gardelli, Mark Birrell, Maria Belvisi
- PA3046** **Assessment of clinical outcome after endoscopic lung volume reduction with one-way valves in emphysema patients and a very-low 6 minute walk test at baseline**  
Jacopo Saccomanno (Berlin, Germany), Lara Kilic, Thomas Sgarbossa, Martin Witzentrath, Franz Stanzel, Angelique Holland, Christian Grah, Wolfgang Gesierich, Andreas Gebhardt, Joachim H. Ficker, Stephan Eggeling, Stefan Andreas, Bernd Schmidt, Stephan Eisenmann, Björn Björn Schwick, Karl-Josef Franke, Andreas Fertl, Ralf-Harto Hübner
- PA3047** **Manifestations and management of laryngoceles: A report of 10 cases**  
Rim Hammami (Sfax, Tunisia), Souha Kallel, Sirine Ayedi, Omar Walha, Najla Bahloul, Mohamed Amin Chaabouni, Elleuch Ahmed Dhiaa, Sami Kammoun, Ilhem Charfeddine
- PA3048** **Acquired tracheal stenosis: what to do?**  
kharrat rania (sfax, Tunisia), Kallel Souha, Ben Ayed Mariem, Salem Noura, Bahloul Najla, Elleuch Ahmed Dhiaa, Ayadi Syrine, Kammoun Sami, Charfeddine Ilhem
- PA3049** **Smoking cessation improves lung function in heterozygote alpha-1 antitrypsin patients.**  
Dimitrios Toumpanakis (Athens, Greece), Nicholas S Hopkinson, Sally Meah, James P Allinson, Omar S Usmani
- PA3050** **Treatment of emphysema in patients with very severe alpha-1-antitrypsin deficiency**  
Emily F. A. van 't Wout (Leiden, Netherlands), Ilaria Ferrarotti, Robert A. Stockley, Jan Stolk
- PA3051** **Late Breaking Abstract - Neutrophilic inflammation associates with dysregulated iron metabolism in COPD.**  
James Baker (MANCHESTER, United Kingdom), Christopher Mccrae, Andrew Higham, Simon Lea, Dave Singh
- PA3052** **Late Breaking Abstract - Validation of assays measuring functional alpha-1 antitrypsin (AAT) in patients with AAT deficiency (AATD)**  
Carson Veldstra (La Jolla, United States), Jason Zour, Varun Ramani, Carolina Bellizzi, Buket Onel, Liz Nolf, Brendan Eckelman

## PS-9 in poster area

## Session 301

12:30 - 14:00

## Poster session: Asthma and chronic obstructive pulmonary disease

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Sleep and breathing disorders](#)

Method(s) : General respiratory patient care Epidemiology Physiology Public health Pulmonary rehabilitation Pulmonary function testing Imaging Cell and molecular biology

Tag(s) : Clinical

Chairs : Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Chair to be confirmed

- PA3053** **Severe Asthma and sleep disorders: a Severe Asthma Network Italy (SANI) analysis**  
Sebastian Ferri (Milan (MI), Italy), Enrico Heffler, Francesca Puggioni, Pierluigi Paggiaro, Francesco Blasi, Giorgio Walter Canonica
- PA3054** **Risk factors for asthma exacerbations in adult-onset asthma: an analysis of GINA report**  
Lauri Nordman (Tampere, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Lauri Lehtimäki, Pinja Ilmarinen, Hannu Kankaanranta

- PA3055 Preserved ratio impaired spirometry (PRISm) as a spirometric pattern among Bulgarian asthma patients**  
Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Plamena Stoimenova
- 
- PA3056 Isolated respiratory microbials and clinical characteristics in exacerbation of obese asthmatics: a multicenter study**  
Jung Hyun Chang (Seoul, Republic of Korea), Sojung Park, Yon Ju Ryu, Jin Hwa Lee, Yong-Il Hwang
- 
- PA3057 Is impulse oscillometry useful in the diagnosis tracheobronchomalacia in patients with severe asthma?**  
Juan Fco. Nieves Salceda (Oviedo, Spain), Tamara Hermida Valverde, Marta Iscar Urrutia, Francisco Julian López González, Ana Isabel Enriquez Rodríguez, María Rodríguez Pericacho, Marta Sánchez Zeballos, Ángela Lanza Martínez, Laura Martínez Vega, Laura Abad Chamorro, Eduardo Sánchez Vázquez, Patricia Álvarez Álvarez, María Rodil Riera, Isabel Martínez González-Posada, Ramón Fernández Álvarez, Marta María García Clemente
- 
- PA3058 Documentation of comorbidities, lifestyle factors and other asthma management details during scheduled asthma contacts in primary health care**  
Jaana Takala (Seinäjäki, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Pinja Ilmarinen, Hannu Kankaanranta
- 
- PA3059 Nasal polyposis and asthma : clinical severity and recurrence**  
Rim Hammami (Sfax, Tunisia), Souha Kallel, Sirine Ayedi, Youssef Hbaieb, Najla Bahloul, Mohamed Amin Chaabouni, Sami Kammoun, Ilhem Charfeddine
- 
- PA3060 Core function in adults with severe asthma and the relationship with dyspnoea and dysfunctional breathing**  
Joice Mara Oliveira (Londrina, Brazil), Vanessa L Clark, Karina Couto Furlanetto, Peter G Gibson, Vanessa L McDonald
- 
- PA3061 Young asthmatics with exercise-induced bronchospasm have repercussions on cardiac autonomic modulation**  
Debora Carneiro de Mendonca (Vitória de Santo Antão, Brazil), Glúvia Maria Barros Delmondes, Bruno Rafael Vieira Souza Silva, Polyanna Guerra Chaves Quirino, José Ângelo Rizzo, Edil Albuquerque Rodrigues Filho, Emanuel Sarinho, Camila Matias De Almeida Santos, Decio Medeiros, Emilia Chagas Costa, Alexandre Sérgio Silva, Breno Quintella Farah, Marco Aurélio De Valois Correia Júnior, Steve Hunter
- 
- PA3062 Worsening of asthma control after recovery from mild to moderate COVID-19**  
Wang Chun Kwok (Hong Kong, Hong Kong), Terence Chi Chun Tam, David Chi Leung Lam, Jackson Ka Chun Leung, King Pui Florence Chan, Shung Kay Samuel Chan, Ka Yan Chiang, Mary Sau Man Ip, James Chung Man Ho
- 
- PA3063 Overweight improves long-term survival in Japanese patients with asthma**  
Jun Sasaki (Kurume, Japan), Tomotaka Kawayama, Takashi Kinoshita, Chiyo Matama, Shingo Tsuneyoshi, Ryo Yano, Masanobu Matsuoka, Tomoaki Hoshino
- 
- PA3064 Physical activity, sedentary behaviour and sleep quality of Sri Lankan adults with and without COPD: cross-sectional study**  
Akila Randika Jayamaha (Colombo, Sri Lanka), Chamilya H Perera, R. S. Karunatillake, A. Fernando, S. W. Wimalasekera, S. J. Singh, M. W. Orme
- 
- PA3065 Hypercapnia increases airway resistance in patients with stable chronic obstructive pulmonary disease**  
Vitalii Kryvenko (Giessen, Germany), Masahiko Shigemura, Werner Seeger, Jacob. I. Sznajder, István Vadász
- 
- PA3066 Differences in the consumption of health resources in patients with COPD exacerbations according to convivence with family members.**  
Zichen Ji (Madrid, Spain), Katuska Herminia Liendo Martinez, Stephany Ivonne Briones Alvarado, Cristina Sánchez Fernández, Javier De Miguel-Diez, Luis Puente-Maestu
- 
- PA3067 Microbial contamination of home nebulisers and its impact on Chronic Obstructive Pulmonary Disease(COPD) patients**  
Darshan Kumar Bajaj (Lucknow (Uttar Pradesh), India), Richa Tyagi, Jyoti Bajpai, R A S Kushwaha, Sapna Dixit, Ankit Kumar, Surya Kant, Nandini Dixit, Neha Kumari, Ajay Kumar Verma
- 
- PA3068 Co-morbidities and frailty in a single practice primary care COPD cohort in UK**  
Mukesh Singh (Sutton Coldfield (West Midlands), United Kingdom), Ketan Singh
- 
- PA3069 Echocardiographic findings of Left Ventricular Function of stable Chronic Obstructive Pulmonary Disease (COPD) patients in a tertiary training hospital in Tacloban City**  
Bobby Jay Ochea (Tacloban City, Philippines), Paula Teresa Sta. Maria, Leila Diaz
- 
- PA3070 The serial reversibility with salbutamol and glycopyrronium in obstructive airway disease (OAD)-an appraisal**  
Sayanti Karmakar (KOLKATA, India), Srijita Sen, Shuvam Ghosh, Debkanya Dey, Avishek Kar, Parthasarathi Bhattacharyya
- 
- PA3071 Comparing Cardiovascular disease pattern among COPD patients with and without bronchiectasis.**  
Saadia Ashraf (Peshawar, Pakistan), Amber Ashraf, Yasir Imtiaz, Rukhsana Anwar, Hamza Asif, Hussain Ahmed

**PA3072 Late Breaking Abstract - Oral bacteria and rate of lung function decline in a general population**  
Christine Drengenes (Bergen, Norway), Hesham Amin, Ane Johannessen, Kristina Mathiesen, Cecilie Svanes, Randi Bertelsen

12:45-13:45

INDUSTRY LUNCHTIME SYMPOSIUM

SEE PAGE 1

Studio (White)

Session 307

13:15 - 14:50

Year in review: Clinical year in review

Management of respiratory diseases

**Aims :** to provide an overview of the most relevant advances in diagnosis and treatment of chronic obstructive pulmonary disease (COPD), obstructive sleep apnoea, interstitial lung disease (ILD), idiopathic pulmonary fibrosis, cystic fibrosis (CF) and COVID-19; to discuss recent findings indicating potential novel pathways that support COPD subphenotypes and evidence for potential new drugs and therapeutic approaches to treat COPD; to describe evidence about the prognosis of different sleep indices alongside different patient cluster responses to continuous positive airway pressure therapy in terms of major cardiovascular events in patients with obstructive sleep apnoea; to examine major developments in diagnostic imaging methods and techniques (including computed tomography, magnetic resonance imaging and ultrasound) for lung function assessment in patients with COPD, ILD, CF and COVID-19; to discuss recent evidence of the effectiveness of alternative pulmonary rehabilitation models for patients with chronic respiratory diseases.

**Disease(s) :** Airway diseases Interstitial lung diseases Sleep and breathing disorders

**Method(s) :** Cell and molecular biology Imaging Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Ioannis Vogiatzis (Blyth, United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

13:15	<b>Advances in sleep breathing disorders</b> Sophia E. Schiza (Heraklion, Greece)	3095
13:30	<b>Developments in diagnostic imaging</b> Andrea Aliverti (Milan, Italy)	3096
13:45	<b>Discussion and Q&amp;A</b> All Speakers	3097
14:00	<b>Break</b> All Speakers	3098
14:05	<b>Novel therapeutic approaches for COPD</b> Florence Schleich (Liège, Belgium)	3099
14:20	<b>Alternative models of pulmonary rehabilitation</b> Thierry Troosters (Leuven, Belgium)	3100
14:35	<b>Discussion and Q&amp;A</b> All Speakers	3101

Gold

Session 309

13:45 - 15:15

State of the art session: Respiratory infections

Management of respiratory infections: the future and the present

**Aims :** to provide an overview of the most interesting advances in the field of respiratory infections from a translational perspective; to cover different topics from the role of mucosal immunity in determining the clinical outcomes to the more advance research in term of prevention and treatment of respiratory infections.

**Disease(s) :** Respiratory infections

**Tag(s) :** Clinical

**Target audience :** Clinical researcher, Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

**Chairs :** Eva Polverino (Barcelona, Spain), Onno Akkerman (Groningen, Netherlands), Graham H. Bothamley (London, United Kingdom)

13:45	<b>The role of mucosal immunity of the lung in respiratory infections</b> Paul G. Thomas (Memphis, United States)	3103
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14:00	<b>The role of microbiome in chronic respiratory diseases: contribution to stability and to exacerbations</b> Sanjay Haresh Chotirmall (Singapore, Singapore)	3104
14:15	<b>Non-antibiotic strategies to fight respiratory infections</b> Christophe CARNOY (LILLE, France)	3105
14:30	<b>Update on vaccination to preventable respiratory infections</b> Jessica Rademacher (Hannover, Germany)	3106
14:45	<b>Discussion and Q&amp;A</b> All Speakers	3107

## Silver Session 310 13:45 - 15:15

### Journal session: From the Editor's Desk

#### NEJM/ERS joint session

**Aims :** The Editors of the ERJ and NEJM will introduce seminal papers that were published in the respective journal in 2023 which will then be presented by one of the authors.

**Disease(s) :** Airway diseases Respiratory infections

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Physician in Pulmonary Training

**Chairs :** Darren Taichman (Boston, United States), James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

13:45	<b>Dupilumab for COPD with Type 2 Inflammation Indicated by Eosinophil Counts</b> Surya Bhatt (Birmingham, United States)	3108
14:00	<b>Airway smooth muscle area to predict steroid responsiveness in COPD patients receiving triple therapy (HISTORIC): a randomized, placebo-controlled, double-blind, investigator-initiated trial</b> Daiana Stolz (Freiburg, Germany)	3109
14:15	<b>Hydrocortisone in Severe Community-Acquired Pneumonia</b> Pierre Francois Dequin (Tours Cedex 9, France)	3110
14:30	<b>Effects of Sotatercept on Haemodynamics and Right Heart Function: Analysis of STELLAR Trial</b> Marius M. Hoeper (Hannover, Germany)	3111
14:45	<b>Discussion and Q&amp;A</b> All Speakers	3112

## Coral 4+5 Session 311 13:45 - 15:15

### Hot topics: Current challenges in airways disease management

**Aims :** to provide an update on our knowledge of airway disease pathophysiology and its clinical implications; to present new paradigms and latest challenges that appear in the airway diseases management.

**Disease(s) :** Airway diseases

**Method(s) :** Epidemiology General respiratory patient care Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs :** Emer Kelly (Dublin 4, Ireland), Apostolos Bossios (Stockholm, Sweden), Omar S. Usmani (London, United Kingdom)

13:45	<b>Aiming for remission in asthma: is this a useful treatment goal?</b> Johann Christian Virchow (Rostock, Germany)	3113
14:00	<b>Evolution in GOLD: we cannot 'see' 'C' anymore and LABA/ICS are gone. Helpful or a hindrance?</b> Antonio Anzueto (SAN ANTONIO, United States)	3114
14:15	<b>Chronic rhinosinusitis: how do we diagnose and do we treat with biologics or surgery?</b> Mona Al-Ahmad (Kuwait, Kuwait)	3115
14:30	<b>Cough drugs and trials: truly novel medicines or is it all a placebo effect?</b> Marta Dąbrowska (Warszawa, Poland)	3116

14:45 **Discussion and Q&A** 3117  
All Speakers

**Coral 3** **Session 312** **13:45 - 15:15**

**State of the art session: Thoracic oncology**

**Aims :** to present four selected hot topics that are currently in the scientific spotlight of thoracic oncology care; –to explain how pulmonologists can within their expertise treat and guide patients throughout the entire continuum of thoracic malignancies in close collaboration with other relevant disciplines and professions.

**Disease(s) :** Thoracic oncology

**Method(s) :** Cell and molecular biology Endoscopy and interventional pulmonology Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece), Joanna Chorostowska-Wynimko (Warsaw, Poland)

13:45 **New insights into tumour biology: digital pathology in lung cancer diagnostics** 3118  
Speaker to be confirmed

14:00 **It is not always malignant: a revisited systematic approach to diagnose the solitary pulmonary nodule** 3119  
Torsten Gerriet Blum (Berlin, Germany)

14:15 **Determining suspicious pleural findings: update on differential diagnostic strategies for pleural thickening and plaques** 3120  
Najib M. Rahman (ABINGDON, United Kingdom)

14:30 **Modern physiotherapy as an essential component of lung cancer and pleural mesothelioma care** 3121  
Maria Koulopoulou (London, United Kingdom)

14:45 **Discussion and Q&A** 3122  
All Speakers

**Coral 1** **Session 313** **13:45 - 15:15**

**Hot topics: Determinants of lung function trajectories and respiratory health from infancy to adulthood**

**Aims :** to provide a life-course approach to respiratory health and lung function from birth to adulthood; to explain the prenatal and perinatal mechanisms involved in increased susceptibility priming of the lung for disease later in life; to summarise the current evidence on early-life risk factors that are associated with respiratory symptoms and lower lung function trajectories later in childhood; to present data from large respiratory cohort studies on tracking of lung function trajectories from school age to adulthood and the factors that define these trajectories; to discuss how this knowledge is translated into clinical practice, examining the role that paediatric clinical history is playing in managing respiratory health in adults.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Epidemiology Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Nicole Beydon (Paris, France), Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany)

13:45 **Lung function trajectories across the life-course: the looking forward/backward concept** 3123  
Shyamali Dharmage (Carlton Victoria, Australia)

14:00 **A mechanistic view into the early-life microenvironment and lung health** 3124  
Niki Ubags (Epalinges, Switzerland)

14:15 **Looking forward: is the lung growth trajectory fixed or can we intervene?** 3125  
Erik Melén (Stockholm, Sweden)

14:30 **Novel biomarkers of impaired lung function in clinical practice** 3126  
Rosa Faner Canet (Barcelona, Spain)

14:45 **Discussion and Q&A**  
All Speakers

3127

## Coral 2

## Session 314

13:45 - 15:15

**Hot topics: The role of novel imaging modalities in sarcoidosis diagnosis and management**

**Aims :** to discuss pivotal role of imaging in diagnosis and follow-up of patients with sarcoidosis; to point out the most appropriate imaging studies, stressing their advantages in various forms of sarcoidosis; to emphasise the important role of high-resolution computed tomography (HRCT) for detection and assessment of subtle parenchymal lesions and abnormalities of lung structures; to present role of HRCT and newly emerging photon counting CT (PCCT) in differentiating active inflammation from irreversible lung disease and fibrosis; to discuss use of magnetic resonance imaging (MRI) for evaluating the involvement of the myocardium in sarcoidosis, as well as increased interest in the role of diffusion-weighted MRI for the characterisation of mediastinal lymphadenopathy.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** Epidemiology General respiratory patient care Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs :** Karen Moor (Rotterdam, Netherlands), Carlos Robalo Cordeiro (Coimbra, Portugal)

14:30 **Sarcoidosis: gaps in diagnosis and treatment**  
Paolo Spagnolo (Padova (PD), Italy) 3131

13:45 **Sarcoidosis: when is HRCT not enough and when should PCCT be performed?**  
Ádám Domonkos Tárnoki (Budapest, Hungary) 3128

14:00 **MR in sarcoidosis: is it reserved for cardiac sarcoidosis/assessment of cardiac involvement?**  
Jonathan H. Chung (San Diego, United States) 3129

14:15 **Is there a role for PET CT in sarcoidosis?**  
Zsuzsanna Besenyi (Szeged, Hungary) 3130

14:45 **Discussion and Q&A**  
All Speakers 3132

## Purple

## Session 315

13:45 - 15:15

**Symposium: Kidney-lung crosstalk in pulmonary disease**

**Aims :** to describe the pulmonary-renal link in physiology and pathological conditions. To discuss the interorgan crosstalk, which is emerging as a key underlying pathophysiologic mechanism in both systemic (sepsis and critical illness) and organ-specific (chronic obstructive pulmonary disease (COPD) and interstitial lung disease) illnesses; to emphasize the interaction between the kidneys and lungs in pathological conditions that has been recently identified; to explain the clinical and therapeutic consequences of the crosstalk between the kidneys and lungs.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory critical care

**Method(s) :** Cell and molecular biology Physiology

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Scientist (basic, translational)

**Chairs :** Silke Meiners (Sülfeld, Germany), Salman Siddiqui (London, United Kingdom), Julie Bastarache (Nashville, United States)

13:45 **The importance of lung-kidney crosstalk in homeostasis and disease**  
Wolfgang M. Kübler (Berlin, Germany) 3133

14:00 **Cellular and molecular mechanisms of kidney-lung crosstalk in acute lung injury**  
John Laffey (Galway, Ireland) 3134

14:15 **The endothelial cell in lung-kidney interactions in COPD**  
Francesca Polverino (Houston, United States) 3135

14:30 **The kidney and interstitial lung disease**  
Gabriela Riemekasten (Lübeck, Germany) 3136

14:45 **Discussion and Q&A**  
All Speakers 3137

14:00-14:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

Red 1+2

Session 318

14:15 - 15:30

Oral presentation: Genetic and biological mechanisms in chronic airway disease

Disease(s) : **Airway diseases**Method(s) : General respiratory patient care Cell and molecular biology Endoscopy and interventional pulmonology Physiology  
Pulmonary function testing Epidemiology

Tag(s) : Basic science, Translational

Chairs : Ian M. Adcock (London, United Kingdom), Anita Somborac Bačura (Zagreb, Croatia)

- OA3143 Late Breaking Abstract - Dysanapsis Genetic Risk and Chronic Obstructive Pulmonary Disease Mortality**  
Leina Kingdom (Montreal, Canada), Catherine Debban, Yohan Bossé, Michael Cho, Qingling Duan, Jamie Engert, Ani Manichaikul, Benjamin M Smith
- 
- OA3144 Genetic screening for cerebellar ataxia with neuropathy and bilateral vestibular areflexia syndrome (CANVAS) in patients with chronic cough. Preliminary analysis**  
Esther Palones (Barcelona, Spain), Elena Curto Sánchez, Lidia Gonzalez Quereda, Pia Gallano Petit, Luis Querol Gutiérrez, Federico Bertoletti, Maria Jose Rodriguez Fernandez, Alba Segarra Casas, Astrid Crespo Lessmann
- 
- OA3145 Breath metabolomics to monitor the response to CFTR modulators in adults with cystic fibrosis**  
Emmanuelle Bardin (Paris, France), Helene Salvador, Camille Roquencourt, Isabelle Sermet-Gaudelus, Dominique Grenet, Philippe Devillier, Stanislas Grassin Delye
- 
- OA3146 Augmentation therapy for severe alpha-1 antitrypsin deficiency improves survival but is decoupled from FEV1 decline**  
Daniel Fraughen (County Dublin, Ireland), Auyon J Ghosh, Brian D Hobbs, Tobias Meischl, Noriane A Sievi, Karin Schmid-Scherzer, Louise Clarke, Geraldine Kelly, Malcolm Herron, Suzanne Roche, Ronan C Heeney, Lameese Alhaddah, Emma Julia Leacy, Lasya Kanchi, Oliver J McElvaney, Cedric Gunaratnam, Georg-Christian Funk, Christian F Clarenbach, Tomás P Carroll, Noel Gerard McElvaney
- 
- OA3147 Patients with chronic airway disease: Insights from a sputum proteome analysis**  
Stefanie Graeter (Bern, Switzerland), Luigi Capriotti, Anna Schnell, Moritz Saxenhofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Steward, Carlos Roca, Ilka Schulze, Alexander Schaub
- 
- OA3148 Serum YKL-40 as a biomarker for predicting loss of lung function and neutrophilic airway inflammation in asthma, COPD and asthma-COPD overlap**  
Yasuhito Suzuki (Fukushima-City, Japan), Junpei Saito, Mami Rikimaru, Atsuro Fukuhara, Tomoyoshi Lee, Ryuki Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Mikako Saito, Natsumi Watanabe, Takaya Kawamata, Ryuichi Togawa, Julia Morimoto, Yuki Sato, Hiroyuki Minemura, Takefumi Nikaïdo, Naoko Fukuhara, Kenya Kanazawa, Yoshinori Tanino, Yoko Shibata
- 
- OA3149 Airway extracellular copper concentrations increase with age and are associated with oxidative stress independent of disease state.**  
Andreas Frølich (Umeå, Sweden), Rosamund E. Dove, Annelie F. Behndig, Ian S. Mudway, Anders Blomberg
- 
- OA3150 A novel mice model investigating the effect of low-dose PM2.5 exposure on lung health**  
min feng (Sidney, Australia), Brian Oliver, Hui Chen
- 
- OA3151 Ciliary dyskinesia is not affected by chronic mucus hypersecretion in severe asthma**  
Céline Kempeneers (Liège, Belgium), Romane Bonhiver, Noémie Bricmont, Maud Pirotte, Sara Engelskirchen, Catherine Moermans, Doriane Calmes, Françoise Guissard, Lionel Benchimol, Marie-Christine Seghaye, Renaud Louis, Florence Schleich
- 
- OA3152 Effect of Mepolizumab on airways remodeling in patients with late-onset severe eosinophilic asthma and fixed obstruction (preliminary data of the MESILICO study)**  
Kalliopi Domvri (Thessaloniki, Greece), Ioanna Tsiouprou, Petros Bakakos, Nikoleta Rovina, Paschalis Stropoulos, Athanasios Voulgaris, Konstantinos Katsoulis, Maria Kipourou, Paraskevi Katsaounou, Sofia Karachrysafi, Pinelopi Anastasiadou, Theodora Papamitsou, Antonia Sioga, Nikoleta Pasteli, Styliani Papaemmanouil, Angeliki Cheva, Stavros Tryfon, Evangelia Fouka, Despoina Papakosta, Konstantinos Porpodis
- 
- OA3153 Discussion and Q&A**  
All Speakers

Brown 3

Session 319

14:15 - 15:30

Oral presentation: Basic mechanisms in pulmonary hypertension



**Disease(s) :** Pulmonary vascular diseases Interstitial lung diseases**Method(s) :** Epidemiology Cell and molecular biology Imaging**Tag(s) :** Basic science, Translational**Chairs :** Christina Eichstaedt (Heidelberg, Germany), Christophe Guignabert (Paris, France)

- OA3154 Late Breaking Abstract - Use of multi-omics to uncover novel druggable targets of SOX17 in PAH**  
Eleni Vasilaki (London, United Kingdom), Rachel Walters, Yukyee Wu, Martin Wilkins, Ines Cebola, Christopher Rhodes
- 
- OA3155 Unpicking the Effects of General Control Non-depressible 2 (GCN2) Deficiency in Pulmonary Veno-Occlusive Disease**  
Max Schwiening (CAMBRIDGE, United Kingdom), Stephen Moore, Reshma Nibhani, Alexi Crosby, Mark Southwood, Ben Dunmore, Nick Morrell, Stefan Marciniak, Elaine Soon
- 
- OA3156 Empagliflozin attenuates hypoxia-induced pulmonary arterial remodeling via inhibiting NOTCH3 signaling pathway**  
Celina De Almeida (Taoyuan, Taiwan), Ying-Ju Lai
- 
- OA3157 Proteomic analysis of biomarkers associated with long-term survival in systemic sclerosis-related group 3 pulmonary hypertension in the HYPID study**  
Valentine Mismetti (Saint Etienne, France), Xavier Delavenne, David Montani, Souad Bezzeghoud, Olivier Delezay, Sophie Hodin, David Launay, Sylvain Marchand-Adam, Hilario Nunes, Edouard Ollier, Jean Pastré, Sébastien Quetant, Martine Reynaud-Gaubert, Julie Traclet, Sabrina Zeghmar, Laurent Bertoletti, Vincent Cottin
- 
- OA3158 An endothelial cell subtype is linked with altered Rho-kinase (ROCK)-associated pathways in PAH**  
Rui Benfeitas (Stockholm, Sweden), Fabrizio Facchinetti, Mirco Govoni
- 
- OA3159 Quantitative evaluation of pulmonary arteriolar structural changes in pulmonary arterial hypertension**  
Gitte Aerts (Leuven, Belgium), Lynn Willems\*, Astrid Vermaut, Vincent Geudens, Hanne Beeckmans, Joline Michiels, Ruben Celen, Charlotte Hooft, Pieterjan Kerckhof, Janne Kaes, Janne Verhaegen, Yousry Mohamady, Laura Hardy, Jan Van Slambrouck, Birger Tielemans, Birgit Weynand, Aernaut Lutun, Catharina Belge, Tom Verbelen, Geert M. Verleden, Greetje Vande Velde, Laurens J. Ceulemans, Robin Vos, Ghislaine Gayan-Ramirez, Marion Delcroix, Rozenn Quarck, Bart M. Vanaudenaerde, Laurent Godinas
- 
- OA3160 Characteristics and outcomes of patients developing pulmonary hypertension associated with proteasome inhibitors**  
Julien GRYNBLAT (Paris, France), Charles Khouri, Marie-Camille Chaumais, Laurent Savale, Alex Hlavaty, Xavier Jais, Mithum Kularatne, Gérald Simonneau, Olivier Sitbon, Frederic Perros, Marc Humbert, David Montani
- 
- OA3161 Identification of AURKB as a new actor in vascular remodeling in PAH**  
Sarah-Eve Lemay (Quebec, Canada), Mélanie Sauvaget, Manon Mouglin, Reem El Kabbout, Sandra Martineau, Sandra Breuils-Bonnet, Alice Bourgeois, Mabrouka Salem, Charlie Théberge, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet
- 
- OA3162 Low Systemic Exposure With Targeted Administration of AER-901 (Inhaled Imatinib): Results of a Phase 1 Clinical Trial**  
Gary Burgess (Canterbury (Kent), United Kingdom), Dawn Edgerton, Nolan Wood, Michelle Widmann, Joshua Ziel
- 
- OA3163 Neuroinflammation mediates cognitive dysfunction in pulmonary hypertension**  
Ping Yuan (Shanghai, China), Xiaoyi Hu, Lan Wang, Jinming Liu, Yi Wang, Xiaohuan Xia, Jialin Zheng
- 
- OA3164 Discussion and Q&A**  
All Speakers

Brown 1+2

Session 320

14:15 - 15:30

Oral presentation: Nursing role in global respiratory health

**Disease(s) :** Airway diseases Interstitial lung diseases**Method(s) :** General respiratory patient care Epidemiology Pulmonary rehabilitation Palliative care Public health**Tag(s) :** Clinical**Chairs :** José Miguel dos Santos Castro Padilha (Porto, Portugal), Rui Pedro Marques da Silva (Sobreira – Paredes, Portugal)

- OA3165 Late Breaking Abstract - Preferences for asthma decision-making: Focus groups with low-income and racial and ethnic minority adults in safety-net primary care settings**  
Maureen George (New York, United States), Samrawit Solomon, Amy Mcmenamin, Gordon Zhang, Carolina Lopez, Marija Zeremski, Andrea Cassells, Jonathan N. Tobin, Jean-Marie Bruzzese, Emily Dimango, Alanna E. Kavanaugh, Rachel Shelton

- Use of non-invasive ventilation in the palliative care of patients with chronic obstructive pulmonary disease: a scoping review**  
**OA3166** Simen Alexander Steindal (Oslo, Norway), Mari O Ohnstad, Kristin Heggdal, Marte-Marie Wallander Karlsen, Hanne Aagaard, Kari Sørensen, Vivi L Christensen, Kristin Hofsv, Monica E Kvande, Nina M Kynø, Anne Kathrine Langerud, Brith Andresen, Marie H Larsen
- 
- The extent and characterization of underdiagnosis and misclassification of COPD in Sweden**  
**OA3167** Malin Axelsson (Malmö, Sweden), Helena Backman, Bright I. Nwaru, Caroline Stridsman, Lowie Vanfleteren, Linnea Hedman, Päivi Piirilä, Juuso Jalasto, Arnulf Langhammer, Hannu Kankaanranta, Madeleine Rådinger, Linda Ekerljung, Eva Rönmark, Anne Lindberg
- 
- Assessing the impact of a dedicated advanced nurse practitioner on a complex ILD service**  
**OA3168** Lindsay Brown (Blessington (Co. Wicklow), Ireland), Fiona Hickey, Omaima Omar, Emmet Mcgrath, Michael P Keane, Cormac Mccarthy
- 
- Modifiable factors of uncontrolled asthma – the crucial role of the asthma nurse**  
**OA3169** Maja Zrnić (Golnik, Slovenia), Mariana Rezelj, Tea Mocnik
- 
- Do symptoms of anxiety correlate with lung function (FEV1) or age in patients with COPD? Results from a randomised controlled trial (RCT) of cognitive behavioural therapy (CBT) undertaken by respiratory nurses.**  
**OA3170** Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Christine Baker, Julia Newton, Carlos Echevarria, Michelle Jambon, Joanne Gray, Kim Pearce, Graham Burns, Anthony De Souza
- 
- Effectiveness of a maintenance PR programme: Preliminary results os the Rehab2Life study**  
**OA3171** Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patrício Costa, José Miguel Padilha
- 
- A standardized language for respiratory nursing care: mixed method research in Spain. Project awarded by SEPAR**  
**OA3172** Silvia Arranz Alonso (Madrid, Spain), Sonia Parra Cordero
- 
- Existing respiratory nursing curriculum, frameworks, and other documentation relevant to respiratory nursing education: A Scoping Review**  
**OA3173** Bridget Murray (DUBLIN, Ireland), Sheree Smith, Nicola Roberts, Miguel José Padilha, Andreja Šajnić, Georgia Narsavage, Helle Marie Christensen, Malin Axelsson, Hernández Carne, Betty Poot, Carol Kelly
- 
- International Coalition of Respiratory Nurses supports global initiative in raising awareness of Asthma and COPD in low- and middle-income countries**  
**OA3174** Andreja Sajnic (Zagreb, Croatia), Georgia Narsavage, Phyllis Murphie, Carne Hernández, Malin Axelsson, José Miguel Padilha, Mariana Paula Rezelj, Carol Stonham, Karen Heslop-Marshall
- 
- Discussion and Q&A**  
**OA3175** All Speakers

Blue 1+2

Session 321

14:15 - 15:30

**Oral presentation: Remote monitoring of respiratory patients****Disease(s)** : [Airway diseases](#) [Interstitial lung diseases](#)**Method(s)** : General respiratory patient care Epidemiology Pulmonary function testing**Tag(s)** : Clinical**Chairs** : David Drummond (Paris, France), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

- Late Breaking Abstract - Exploring technology preferences and reliever inhaler use in adults with asthma – survey results with behavioural segmentation analysis**  
**OA3176** Naomi Bennett-Steele (Birmingham, United Kingdom), Andrew Cumella, Anna Francis, Samantha Walker
- 
- Late Breaking Abstract - Making therapy behaviour transparent by using an app and a Bluetooth® enabled electronic nebulizer, was found to increase therapy adherence.**  
**OA3177** David Fiebig (Starnberg, Germany), Philippine Reimpell, Serena Mautone, Andreas Schmitt, Carola Fuchs
- 
- Remote MONITORing of patients with chronic obstructive pulmonary disease using a tablet system. A randomized crossover study on quality of life measurements**  
**OA3179** Malte Frerichs (Möln dal, Sweden), Kristina An delid, Anders Andersson, Monika Crona, Huiqi Li, Lowie E.G.W. Vanfleteren
- 
- Virtual ward (VW) in respiratory medicine - a fleeting premise or a sustainable enterprise?**  
**OA3180** Sivakamasundari Narayani Ampikaipakan (Norwich, United Kingdom), Claire Beard, Katherine Cooper, Rose Cary, Michael Waters, Mark Pasteur

- OA3181 Electronic monitoring with a digital smart spacer to support personalized inhaler use education in patients with asthma: the randomized controlled OUTERSPACE feasibility trial**  
Boudewijn Dierick (Groningen, Netherlands), Maria Achterbosch, Amber Eikholt, Sandra Been-Buck, Titia Klemmeier, Susanne Van De Hei, Paul Hagedoorn, Huib Kerstjens, Janwillem Kocks, Job Van Boven
- OA3182 Variability in home spirometry is associated with dyspnoea in interstitial lung disease**  
Iain Stewart (London, United Kingdom), Ankesh Gandhi, Jia Wen, Colin Edwards, Rebecca Borton, Steve Jones, Fasihul Khan, Gisli Jenkins
- OA3183 Clinical validation of real-world walking cadence in patients with COPD**  
Laura Delgado Ortiz (Barcelona, Spain), Saverio Ranciati, Ane Arbillaga-Etxarri, Eva Balcells, Joren Buekers, Heleen Demeyer, Anja Frei, Elena Gimeno-Santos, Nicholas S. Hopkinson, Corina De Jong, Niklas Karlsson, Luca Palmerini, Michael I. Polkey, Milo A. Puhan, Roberto Rabinovich, Diego Rodriguez Chiaradia, Robert Rodriguez-Roisin, Pere Toran, Ioannis Vogiatzis, Henrik Watz, Thierry Troosters, Judith Garcia-Aymerich
- OA3184 Anticipated barriers and facilitators for implementing smart inhalers in asthma medication adherence management: a qualitative study**  
Susanne J. van de Hei (Groningen, Netherlands), Nilouq Stoker, Bertine M.J. Flokstra-De Blok, Charlotte C. Poot, Eline Meijer, Maarten J. Postma, Niels H. Chavannes, Janwillem W.H. Kocks, Job F.M. van Boven
- OA3185 Laboratory and free-living gait performance in adults with COPD and healthy controls**  
Joren Buekers (Barcelona, Spain), Dimitrios Megaritis, Sarah Koch, Lisa Alcock, Clemens Becker, Stefano Bertuletti, Tecla Bonci, Philip Brown, Ellen Buckley, Sara C. Buttery, Brian Caulfield, Andrea Cereatti, Nikolaos Chynkiamis, Heleen Demeyer, Carlos Echevarria, Anja Frei, Clint Hansen, Jeffrey Hausdorff, Nicholas S. Hopkinson, Emily Hume, Walter Maetzler, Encarna M. Micó-Amigo, Luca Palmerini, Francesca Salis, Kirsty Scott, Thierry Troosters, Henrik Watz, Lynn Rochester, Silvia Del Din, Ioannis Vogiatzis, Judith Garcia-Aymerich
- OA3186 Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 322

14:15 - 15:30

### Oral presentation: The future of non-invasive ventilation: new applications, selection of patients and the value of advanced monitoring

**Disease(s) :** Sleep and breathing disorders Airway diseases Respiratory critical care Thoracic oncology

**Method(s) :** Physiology General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** Marieke L. Duiverman (Groningen, Netherlands), Claudia Crimi (Catania (CT), Italy)

- OA3187 Late Breaking Abstract - Efficacy of non-invasive ventilation with expiratory washout in stable COPD patients: A randomised cross-over pilot.**  
Ruth Semprini (Harbour View (Lower Hutt), New Zealand), Stacey Kung, Alex Semprini, Jessica Fogarin, Sascha Zoellner, Richard Beasley, Louis Kirton, Karen Oldfield, Marjan Doppen, Allie Eathorne, Georgia Hoggarth, Zamir Joya, Sajida Ismatullah
- OA3188 Comparison of Extubation Success between Prophylactic Helmet NIV and Facemask NIV in High-Risk Postextubation Patients; A Randomized Controlled Trial**  
Napat Jirawat (Bangkok, Thailand), Napplika Kongpolprom
- OA3189 The effect of prone position and helmet CPAP on ventilatory pattern**  
Antonella LoMauro (Milano (MI), Italy), Annalaura Deluca, Paolo Scarpazza, Andrea Aliverti
- OA3190 Telemonitoring of home non-invasive ventilation (NIV) patients: Friend or foe**  
Clara Bianquis (Saint-Prix, France), Kinan El Hussein, Adrien Kerfourn, Emeline Fresnel, Jean-Christian Borel, Antoine Cuvelier, Johan Dupuis, Frédéric Gagnadoux, Jésus Gonzales, Jean-François Muir, Patrick Brian Murphy, Arnaud Prigent, Claudio Anibal Rabec, Wojciech Trzepizur, João Carlos Winck, Maxime Patout
- OA3191 Pixellating ventilation: which signals are required?**  
Anna Ridgers (Heidelberg, Australia), Warren Ruehland, Liam M Hannan, David J Berlowitz, Mark E Howard
- OA3192 Continuous and bilevel positive airway pressure to reduce breathing amplitudes in patients undergoing radiotherapy**  
Judith Elshof (Groningen, Netherlands), Corry M. Steenstra, Peter W. Dijkstra, Anne G.H. Niezink, Robin Wijsman, Marieke L. Duiverman
- OA3193 Hypoxic challenge test during treatment with non-invasive ventilation: a surmountable challenge**  
Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

**OA3194 Health related quality of life of two phenotypes of COPD patients under home NIV**  
Tim Raveling (Groningen, Netherlands), Peter Wijkstra, Marieke Duiverman

**OA3195 Benefits of inspiratory muscle training in Myotonic Dystrophy: a pilot study**  
Charlotte Seijger (Heerenveen, Netherlands), Marieke Duiverman, Peter Wijkstra

**OA3196 Discussion and Q&A**  
All Speakers

## Amber 1+2 Session 323 14:30 - 16:50

### Skills workshop: SW6 Interpretation of cardiopulmonary exercise tests Tips and pitfalls in cardiopulmonary exercise testing assessment

**Aims :** to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Pulmonary vascular diseases**

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Pierantonio Laveneziana (Paris, France)

14:30	<b>Introduction</b> All Speakers	3197
14:30	<b>Relationship between oxygen uptake and work rate</b> Paolo Palange (Rome, Italy)	3198
14:30	<b>Anaerobic/lactate threshold</b> William Stringer (Long Beach, United States)	3199
14:30	<b>Ventilatory efficiency</b> J. Alberto Neder (Kingston (ON), Canada)	3200
14:30	<b>Breathing pattern and dynamic hyperinflation</b> Michele Schaeffer (Leuven, Belgium)	3201

## Amber 3+4 Session 324 14:30 - 16:50

### Skills workshop: SW9 Practicalities of spirometry and whole-body plethysmography

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s) :** **Airway diseases** **Paediatric respiratory diseases**

**Method(s) :** Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

14:30	<b>Introduction</b> All Speakers	3202
14:30	<b>Performing spirometry</b> Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)	3203
14:30	<b>Standardised static lung volume measurement using whole-body plethysmography</b> Frans H.C. De Jongh (Enschede, Netherlands)	3204
14:30	<b>Measurement of airway resistance and resistance-volume loops using whole-body plethysmography</b> Rachel Ong-Salvador (Amsterdam, Netherlands)	3205

14:30 **Reporting and interpretation of case studies**  
Gregory King (Sydney (NSW), Australia)

3206

**Gold** **Session 325** **15:30 - 17:00**

**Clinical cases: Lungs on fire: respiratory infections?**

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Respiratory infections

**Tag(s) :** Clinical

**Chairs :** Eva Polverino (Barcelona, Spain), Onno Akkerman (Groningen, Netherlands), Graham H. Bothamley (London, United Kingdom)

**Discussants :** Daiana Stolz (Freiburg, Germany), James D. Chalmers (Dundee (Angus), United Kingdom)

15:30 **Case 1 incl. panel discussion and Q&A - Author: T. Ejaz (Pakistan)**  
Daiana Stolz (Freiburg, Germany) 3207

15:52 **Case 2 incl. panel discussion and Q&A - Author: H. Liyanage (Sri Lanka)**  
James D. Chalmers (Dundee (Angus), United Kingdom) 3208

16:14 **Case 3 incl. panel discussion and Q&A - Author: K. Vijayasaritha (United Kingdom)**  
Daiana Stolz (Freiburg, Germany) 3209

16:36 **Case 4 incl. panel discussion and Q&A - Author: R. Saleh (Saudi Arabia)**  
James D. Chalmers (Dundee (Angus), United Kingdom) 3210

**Silver** **Session 326** **15:30 - 17:00**

**Clinical trials session: ALERT 2: organisation of care**

**Digital care, practical strategies, and care pathways**

**Aims :** The ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials) showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, discussants, session chairs and the audience will actively discuss the showcased trials.

**Disease(s) :** Airway diseases Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Imaging Pulmonary rehabilitation

**Tag(s) :** Clinical

**Chairs :** Darren Taichman (Boston, United States), Arzu Yorgancıoğlu (Konak, Turkey)

**Discussants :** Anita Simonds (London, United Kingdom), Frits M.E. Franssen (Maastricht, Netherlands)

**RCT Abstract - Effects of a digital inhaler on medication adherence and clinical outcomes in primary care asthma patients: a cluster RCT**

**RCT3211** Susanne J. van de Hei (Groningen, Netherlands), Liselot N. Van Den Berg, Charlotte C. Poot, Yoran H. Gerritsma, Eline Meijer, Bertine M.J. Flokstra-De Blok, Maarten J. Postma, Job F.M. Van Boven, Niels H. Chavannes, Janwillem W.H. Kocks

**Usefulness of NIV telemonitoring versus usual follow-up to reduce hypoventilation (eVENT – eHealth and VENTilation - randomized trial)**

**RCT3212** Arnaud Prigent (Rennes, France), Joëlle Texereau, Claude Schmitz, Cécile Ropars, Jean-Marc Degreef, Marion Teulier, Christian Darne, Franck Lavergne, Capucine Morelot-Panzini

**Automatic oxygen control during admission with exacerbation of COPD - a multicenter randomised controlled trial**

**RCT3213** Ejvind Frausing Hansen (Hvidovre, Denmark), Charlotte Sandau, Jens-Ulrik Jensen, Lars Pedersen, Charlotte Suppli Ulrik

**Wrap-up by discussant and discussion**

**RCT3214** Anita Simonds (London, United Kingdom)

**RCT Abstract - Minimal versus specialist equipment in the delivery of pulmonary rehabilitation: a non-inferiority RCT**

**RCT3215** Claire M. Nolan (Richmond, United Kingdom), Callum Glen, Suhani Patel, Timothy Jenkins, George Edwards, Jessica A. Walsh, Ruth E. Barker, Oliver Polgar, Jennifer Harvey, Wei Gao, Francesca Fiorentino, Matthew Maddocks, William D-C. Man

**RCT3216** **Late Breaking Abstract - Does ultrasound in suspected pulmonary embolism safely reduce referral to diagnostic imaging? – a randomized controlled trial**  
Casper Falster (Odense, Denmark), Rune Wiig Nielsen, Jacob Eifer Møller, Mikael Kjær Poulsen, Stefan Posth, Mikkel Brabrand, Christian B. Laursen

**RCT3217** **Wrap-up by discussant and discussion**  
Frits M.E. Franssen (Maastricht, Netherlands)

**RCT3218** **Closing remarks**  
All Speakers

## Coral 4+5 Session 327 15:30 - 17:00

### Hot topics: Precision medicine in airways disease: where is the science going and what we can offer in the clinic?

**Aims :** to update European Respiratory Society members on the role of precision medicine in airway diseases.

**Disease(s) :** **Airway diseases**

**Method(s) :** Epidemiology Physiology

**Tag(s) :** Translational , Basic science

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training

**Chairs :** Emer Kelly (Dublin 4, Ireland), Apostolos Bossios (Stockholm, Sweden), Omar S. Usmani (London, United Kingdom)

**15:30** **Early diagnostics in airway disease: will omics and cellular signatures really help our patients?** **3220**  
Sanjay Haresh Chotirmall (Singapore, Singapore)

**15:45** **Multiple novel classifications of COPD ( subtypes, aetiotypes, pre-COPD, early-COPD): are these helpful in offering better care for patients?** **3221**  
Shyamali Dharmage (Carlton Victoria, Australia)

**16:00** **Non-T2 asthma, the unmet need: molecular phenotyping to identify pathways for patient benefit. Are we getting any closer?** **3222**  
Richard Costello (Dublin 9, Ireland)

**16:15** **Treatable traits in bronchiectasis: will they help in bedside treatments for our patients?** **3223**  
Clémence Martin (Paris, France)

**16:30** **Discussion and Q&A** **3224**  
All Speakers

## Coral 3 Session 328 15:30 - 17:00

### Clinical cases: Lungs on fire: lung cancer?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** **Thoracic oncology** **Airway diseases** **Interstitial lung diseases**

**Tag(s) :** Clinical

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece), Joanna Chorostowska-Wynimko (Warsaw, Poland)

**Discussants :** Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany)

**15:30** **Case 1 incl. panel discussion and Q&A - Author: A. P. Cunha Craveiro (Portugal)** **3225**  
Georgia Hardavella (Athens, Greece)

**15:52** **Case 2 incl. panel discussion and Q&A - Author: N. A. Villamagua Arias (Spain)** **3226**  
Torsten Gerriet Blum (Berlin, Germany)

**16:14** **Case 3 incl. panel discussion and Q&A - Author: A. Sturm (Switzerland)** **3227**  
Georgia Hardavella (Athens, Greece)

**16:36** **Case 4 incl. panel discussion and Q&A - Author: M. Bordicchia (Italy)** **3228**  
Torsten Gerriet Blum (Berlin, Germany)

## Coral 1 Session 329 15:30 - 17:00

## Symposium: Addressing disparities and deprivation in the care of children with lung diseases: a world view

**Aims :** to address disparities and strategies to achieve equity in asthma care globally; to discuss global differences in asthma prevalence, asthma management, access to healthcare and affordability of asthma medications; to define solutions to gaps in asthma care in low-resource settings; to discuss potential social injustice and disparities and strategies to achieve equity in middle- and high-income countries.; to address issues of diagnostics and asthma care in these lower-resourced settings as well as key research priorities that may improve outcomes globally.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Journalist

**Chairs :** Nicole Beydon (Paris, France), Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany)

15:30	<b>Access to asthma medication across the life-course: what we have learnt from global data</b> Luis Garcia-Marcos Alvarez (El Palmar (Murcia), Spain)	3229
15:45	<b>Sub-Saharan Africa: impact of deprivation on respiratory infections and lung health outcomes in chronic respiratory diseases</b> Refiloe Masekela (Durban, South Africa)	3230
16:00	<b>Disparities in communities: how do we make the equation more equitable?</b> Wanda Phipatanakul (Hopkintkn, United States)	3231
16:15	<b>Eastern Europe: deprivation in the face of war and access to healthcare</b> Oleksandr Mazulov (Vinnytsia, Ukraine)	3232
16:30	<b>Discussion and Q&amp;A</b> All Speakers	3233

## Coral 2 Session 330 15:30 - 17:00

## Hot topics: Digital solutions for respiratory medicine: a new way of working

**Aims :** to review how adoption of an electronic health records system has created opportunities for respiratory patients to receive better care; to evaluate digital health services for respiratory patients; to discuss the role of big data analytics in respiratory care; to assess artificial intelligence (AI) solutions for imaging, pathology, spirometry, real-time assistance, etc; to discuss the potential drawbacks and advances of using digital technologies during the war in Ukraine.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Imaging Public health Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs :** Karen Moor (Rotterdam, Netherlands), Carlos Robalo Cordeiro (Coimbra, Portugal)

15:30	<b>Big data and AI: it is not just about imaging</b> Özçelik Neslihan (Rize, Turkey)	3235
15:45	<b>Digital health services for respiratory patients in Norway</b> Paolo Zanaboni (Tromsø, Norway)	3236
16:00	<b>Digital tools to promote medication adherence</b> Job F.M. van Boven (Groningen, Netherlands)	3234
16:15	<b>Use of digital medicine during wartime: Ukrainian experience</b> Vitalii Poberezhets (Vinnytsia, Ukraine)	3237
16:30	<b>Discussion and Q&amp;A</b> All Speakers	3238

**Purple** Session 331 15:30 - 17:00**Symposium: Post-viral lung diseases: from basic immunology to clinical phenotypes and therapy**  
Lung Science Conference session

**Aims :** to present the very best of international lung science research; to highlight new discoveries that will likely impact the future of respiratory medicine; to encourage debate and interaction between basic scientists and clinical researchers on the topic of how respiratory infections cause long-term consequences that give rise to chronic lung diseases such as asthma and pulmonary fibrosis.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Respiratory infections**

**Method(s) :** Cell and molecular biology Respiratory intensive care

**Tag(s) :** Translational

**Target audience :** Clinical researcher, Medical Student, Physician in Pulmonary Training, Scientist (basic, translational), Journalist

**Chairs :** Silke Meiners (Sülfeld, Germany), Salman Siddiqui (London, United Kingdom)

15:30	<b>What can we learn from acute virus infections for chronic disease?</b> Peter Openshaw (London, United Kingdom)	3239
15:45	<b>Long-lasting alterations in lung anti-tumour immunity by viral infections</b> Lucia Rodriguez Rodriguez (Liege, Belgium)	3240
16:00	<b>Lung regeneration for inherited interstitial pulmonary fibrosis using a novel combinatorial adeno-associated virus gene therapy</b> Pauline BARDIN (Paris, France)	3241
16:15	<b>Recapitulating morphological and functional characteristics of distal airways in tubular organoids to model post-viral obstructive diseases</b> Isabelle Dupin (Bordeaux, France)	3242
16:30	<b>Discussion and Q&amp;A</b> All Speakers	3243

15:30-16:15

**INDUSTRY SKILLS LAB WORKSHOP****SEE PAGE 1****Red 1+2** Session 334 15:45 - 17:00**Symposium: Early career member session**

**Aims :** to bring together all types of respiratory professionals in order to discuss key aspects for career development in respiratory medicine

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

15:45	<b>Environmental awareness in respiratory medicine: a clinical and scientific view</b> Lucilla Piccari (Barcelona, Spain)	3247
16:00	<b>Communicate your research: reaching the media, the public and how to use social media</b> Leticia Kawano-Dourado (Sao Paulo, Brazil)	3248
16:15	<b>How ERS activities can help to shape your career</b> Niki Ubags (Epalinges, Switzerland)	3249
16:30	<b>Mina Gaga Lecture</b> Mareike Lehmann (Marburg, Germany)	3250
16:45	<b>Discussion and Q&amp;A</b> All Speakers	3251

**Brown 3** Session 335 15:45 - 17:00**Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care**



**Disease(s) :** Interstitial lung diseases Airway diseases**Method(s) :** Palliative care Physiology Pulmonary function testing Pulmonary rehabilitation Endoscopy and interventional pulmonology**Tag(s) :** Clinical**Chairs :** Guido Vaghegini (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

- OA3252** **Late Breaking Abstract - The impact and timing of pulmonary rehabilitation in patients undergoing bronchoscopic lung volume reduction with endobronchial valves: a randomized controlled trial in patients with severe emphysema**  
Rein Posthuma (Maastricht, Netherlands), Marieke C. Van Der Molen, Jorine E. Hartman, Hester Van Der Vaart, Eline Bij De Vaate, Anouk W. Vaes, Bram Van Der Borst, Dirk Van Ranst, Martijn A. Spruit, Lowie E.G.W. Vanfleteren, Dirk-Jan Slebos
- 
- OA3253** **Blood-flow restricted cycling maximizes leg muscle effort with less ventilatory work compared to work-matched free-flow exercise: A randomized crossover study**  
Manuel Kuhn (Zurich, Switzerland), Christian F. Clarenbach, Adrian Kläy, Thomas Radtke, Sarah R. Haile, Noriane A. Sievi, Dario Kohlbrenner
- 
- OA3254** **Survival following pulmonary rehabilitation (PR): the effect of achieving the minimal important difference (MID) in walking distance.**  
Thomas Ward (Leicester, United Kingdom), Neil J Greening, Charlotte E Bolton, Sally J Singh, William D Man, Michael C Steiner, Rachael A Evans
- 
- OA3255** **Low-load blood-flow restriction strength training in patients with COPD: a randomised controlled pilot study**  
Dario Kohlbrenner (Copenhagen, Denmark), Manuel Kuhn, Anastasios Manettas, Céline Aregger, Matthias Peterer, Nicola Greco, Noriane A. Sievi, Christian F. Clarenbach
- 
- OA3256** **Muscle mRNA and protein responses to aerobic exercise training (AET) in COPD and health**  
Lorna Latimer (Rugby (Warwickshire), United Kingdom), Despina Constantin, Linzy Houchen-Wolloff, Bhavesh Popat, Dumitru Constantin-Teodosiu, Charlotte Bolton, Michael Steiner, Paul Greenhaff
- 
- OA3257** **Effects of spray cryotherapy on cough receptors and airway microenvironment in a canine model of chronic bronchitis**  
long liang (Shanghai, China), Changhui Wang
- 
- OA3258** **Nasal stimulation with L-menthol alleviates multidimensional breathlessness in patients with interstitial lung disease: a randomized controlled trial**  
Masashi Kanezaki (Kawagoe, Japan), Kunihiko Terada, Satoru Ebihara
- 
- OA3259** **Mortality in COPD: Physical capacity of physical activity?**  
Anouk W. Vaes (Horn, Netherlands), Noriane A. Sievi, Christian F. Clarenbach, Alex J. Van 'T Hul, Martijn A. Spruit
- 
- OA3260** **Pulmonary rehabilitation and physical activity: a step in the right direction? A network meta-analysis**  
James Manifold (Nottingham, United Kingdom), Yousuf A Chaudry, Sally J Singh, Tom Ward, Maxine E Whelan, Mark W Orme
- 
- OA3261** **Interventions to increase fat-free mass in COPD: a systematic review and meta-analysis**  
Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Kaveh Gaynor-Sodeifi, Hayley Lewthwaite, Jaycie Triandafilou, Leticia Belo, Mayron Faria De Oliveira, Dennis Jensen
- 
- OA3262** **Discussion and Q&A**  
All Speakers

Brown 1+2

Session 336

15:45 - 17:00

Oral presentation: From lung cancer screening to early diagnosis

**Disease(s) :** Thoracic oncology**Method(s) :** General respiratory patient care Imaging Public health Epidemiology Surgery Pulmonary function testing Cell and molecular biology Endoscopy and interventional pulmonology**Tag(s) :** Clinical**Chairs :** Neal Navani (London, United Kingdom), Maria Joana Pereira Catarata (Porto, Portugal)

- OA3263** **Late Breaking Abstract - Endobronchial ultrasound in diagnosing and staging of lung cancer by 22G TBNB versus regular 22G TBNA needles: a randomized clinical trial**  
Antonio Moretti (Amsterdam, Netherlands), Tess Kramer, Jolanda C Kuijvenhoven, Jan Von Der Thüsen, Daniëlle Cohen, Artur Szlubowski, Maciej Gnass, Maarten K Ninaber, Bart Hoppe, Rocco Trisolini, Zuzana Sestakova, Jiri Votruba, Daniël A Korevaar, Peter I Bonta, Jouke T Annema

- OA3264 Lung cancer screening by Low-Dose CT scan in France: final results of the DEP'K80 study after three rounds**  
Olivier Leleu (Abbeville Cedex, France), Nicolas Storme, Damien Basille, Marianne Auquier, Vincent Jounieaux, Sebastien Couraud
- OA3265 Exhaled breath analysis optimizes nodule management in a lung cancer screening program.**  
Kathleen Zwijsen (Wilrijk, Belgium), Reinier Wener, Eline Janssens, Eline Schillebeeckx, Elly Marcq, Jo Raskin, Jan P. Van Meerbeeck, Annemiek Snoeckx, Annelies Janssens, Kevin Lamote
- OA3266 Growth patterns of screen-detected malignant pulmonary nodules: Accuracy of doubling-time models**  
Andrew Creamer (Bristol (Avon), United Kingdom), Carolyn Horst, Jennifer Dickson, Sophie Tisi, Helen Hall, Priyam Verghese, Ruth Predecki, Aryn Bhamani, John McCabe, Jonathan Teague, Anne-Marie Hacker, Laura Farrelly, Kylie Gyertson, Anand Devaraj, Arjun Nair, Allan Hackshaw, Sam Janes
- OA3267 Fluid-specific miRNA-based signatures for lung cancer screening**  
Giovanna Casagrande (Barretos, Brazil), Rodrigo Chiarantano, Alexia Polo, Ana Carolina Laus, Isabella Tegami, Eduardo Cabral, Angela Filatieri, Rachid Oliveira, Luciane Sussuchi Da Silva, Rui Reis, Leticia Leal
- OA3268 Validation of the Danish Lung Cancer Registry**  
Anja Gouliaev (Viby J, Denmark), Torben Riis Rasmussen, Niels Lyhne Christensen
- OA3269 Identification of potential biomarkers for diagnosis of lung adenocarcinoma**  
Giovanna Casagrande (Barretos, Brazil), Isabella Tegami, Luciane Sussuchi Da Silva, Rodrigo Oliveira Cavagna, Maria Fernanda Gonçalves, Flávio Augusto Ferreira Da Silva, Eduardo Caetano Albino Da Silva, Vinicius Duval Da Silva, Pedro De Marchi, Rui Manuel Reis, Leticia Ferro Leal
- OA3270 Determinants of Therapeutic Sensitivity in EGFR-Driven Lung Cancer**  
Giorgia Foggetti (Milan, Italy), Mariana Do Carmo, Francisco Expósito, Camila Robles-Oteiza, Hongchen Cai, Virginia Guzzeloni, Federica Pedica, Gianluigi Arrigoni, Claudio Doglioni, Alessandra Bulotta, Stefano Cascinu, Giulia Veronesi, Giampiero Negri, Monte M. Winslow, Katerina Politi
- OA3271 Integrating artificial intelligence tool in multidisciplinary tumor board for predicting complications after lung cancer surgery**  
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Clarissa Uslenghi, Gabriele Maffei, Giulia Sedda, Lorenzo Spaggiari
- OA3272 The role of crural diaphragm density in respiratory complications after VATS lobectomy: a retrospective analysis**  
Alice Bellini (Forlì, Italy), Antonio Vizzuso, Sara Sterrantino, Eleonora Antognoni, Angelica Amatulli, Beatrice Siroli, Roland Barbante, Edoardo Raffaelli, Angelo Paolo Ciarrocchi, Sara Picucchi, Emanuela Giampalma, Franco Stella
- OA3273 Discussion and Q&A**  
All Speakers

Blue 1+2

Session 337

15:45 - 17:00

## Oral presentation: Challenges and novelties in rare interstitial lung diseases

Disease(s) : [Interstitial lung diseases](#)

Method(s) : Imaging Pulmonary function testing General respiratory patient care Physiology Cell and molecular biology

Tag(s) : Clinical

Chairs : Maria Molina Molina (Barcelona, Spain), Cormac McCarthy (Dublin 4, Ireland)

- OA3274 Late Breaking Abstract - Nintedanib for Lymphangiomyomatosis: an open-label phase II study**  
Sergio Alfonso Harari (Milano (MI), Italy), Davide Elia, Antonella Caminati, Jens Geginat, Francesca Luisi, Giuseppe Pelosi, Claudia Specchia, Olga Torre, Chiara Vasco, Maurizio Zompatori, Roberto Cassandro
- OA3275 Autoimmune Pulmonary Alveolar Proteinosis (aPAP) in Greece: 20 years in progress**  
Effrosyni D. Manali (Athens, Greece), Spyros A Papiris, Maria Kallieri, Lykourgos Kolilekas, Georgia Papadaki, Emmanouil Verykakis, Georgia Kontonasiou, Andriana I Papaioannou, Demosthenes Bouros, Vasiliki Apolloniatou, Elvira-Markela Antonogiannaki, Panagiotis Lyberopoulos, Nikolaos Roussakis, Konstantinos Douros, Andrea Schams, Matthias Griese
- OA3276 Preclinical studies supporting a first-in-human trial of pulmonary macrophage transplantation therapy of CSF2RA-associated PAP**  
Bruce Trapnell (Cincinnati, United States), Paritha Arumugam, Brenna Carey, Lisa Trump-Durbin, Matthew Wessendarp, Takuji Suzuki, Fnu Spoorthi, Yan Ma, Kenjiro Shima, Jennifer Stock, Claudia Chalk, Kathryn Wikenheiser-Brokamp, Carolyn Lutzko
- OA3277 Exploring the prognosis and pathogenesis of secondary pulmonary alveolar proteinosis**  
Haruyuki Ishii (Tokyo, Japan), Ryushi Tazawa, Tomohiro Handa, Yoshinori Tanino, Nobutaka Kitamura, Yoshikazu Inoue, Koh Nakata

- OA3278 New diagnostic approaches for lymphangiomyomatosis (LAM)**  
Christoph Lederer (Heidelberg, Germany), Krisztina Guth, Anikó Bohács, Verena Müller, Michael Kreuter
- 
- OA3279 Alveolar fibroblast activation and epithelial injury/repair in pulmonary lymphangiomyomatosis (LAM)**  
Vera Krymskaya (Philadelphia, United States), Kseniya Obraztsova, Alexander Mukhitov, Ryan Rue, Akansha Goel, Apoorva Babu, Michael Morley, Edward Morrissey, Susan Lin, Jillian Evans
- 
- OA3280 Phenotypic characterization of interstitial lung disease associated with mutations in SFTPC and ABCA3 in adults**  
Rémi Diesler (Lyon, France), Marie Legendre, Salim Si-Mohamed, Pierre-Yves Brillet, Lidwine Wemeau, Effrosyni D Manali, Frédéric Gagnadoux, Anne Gondouin, Sandrine Hirschi, Gwenael Lorillon, Martine Reynaud-Gaubert, Vanessa Bironneau, Elodie Blanchard, Arnaud Bourdin, Stéphane Dominique, Aurélien Justet, Julie Macey, Sylvain Marchand-Adam, Hélène Morisse-Pradier, Hilario Nunes, Spyros Papiris, Julie Tracllet, Bruno Crestani, Serge Amsellem, Nadia Nathan, Raphaël Borie, Vincent Cottin
- 
- OA3281 Reversal of interstitial lung disease after olipudase alfa enzyme replacement therapy in adults with acid sphingomyelinase deficiency**  
Francesco Bonella (Düsseldorf, Germany), Melissa Wasserstein, Roberto Giugliani, Robin Lachmann, Imre Noth, Maurizio Scarpa, Wim A Wuyts, Mario Aguiar, Nicole M Armstrong, Andreas Jessel, Monica Kumar, Sara Waters, Kenneth I Berger
- 
- OA3282 Pirfenidone in post-covid19 pulmonary fibrosis (FIBRO-COVID): Phase-II randomized clinical trial (NCT04607928)**  
Guadalupe Bermudo Peloeche (Barcelona, Spain), Belen Del Río, Vanesa Vicens-Zygmunt, Claudia Valenzuela, Rosalia Laporta, Juan Rigual, Karina Portillo, Paloma Millan, Eva Balcells, Diana Badenes, Santiago Bolívar, Jose Antonio Rodriguez-Portal, Laura Tomás, Koral Fernández De Roitegi, Jacobo Sellarés, Diego Castillo, Jaume Bordas, Yasmina Gutierrez-Rodriguez, Paloma Caballero, Javier Alarcon, Christian Tebé, Sebastian Videla, Salud Santos-Perez, Anna Ferrer, Ana Montes-Worboys, Patricio Luburich, María Molina-Molina
- 
- OA3283 Home spirometry in regular care for patients with pulmonary fibrosis**  
Gizal Nakshbandi (Barendrecht, Netherlands), C.C. Moor, M. Veltkamp, S.F.M. Nijman, M.J. Overbeek, P. Bresser, J.J.M. Geelhoed, R.E. Jonkers, A.D.M. Vorselaars, R. Mostard, M.S. Wijsenbeek
- 
- OA3284 Discussion and Q&A**  
All Speakers

## Yellow 1+2+3 Session 338 15:45 - 17:00

### Oral presentation: Positive airway pressure for sleep-disordered breathing: adherence and outcomes

**Disease(s) :** Sleep and breathing disorders

**Method(s) :** General respiratory patient care Physiology Epidemiology Public health Imaging Cell and molecular biology

**Tag(s) :** Clinical

**Chairs :** Dries Testelmans (Leuven, Belgium), Carolina Lombardi (Milano (MI), Italy)

- OA3285 Late Breaking Abstract - Cardiovascular morbidity and mortality after positive airway pressure (PAP) discontinuation in obstructive sleep apnea (OSA) patients**  
AbdelKebir Sabil (Paris, France), Claire Launois, Wojciech Trzepizur, François Goupil, Thierry Pigeanne, Sandrine Launois, Laurene Leclair-Visonneau, Philippe Masson, Acya Bizieux-Thaminy, Dany Jaffuel, Sebastien Bailly, Frédéric Gagnadoux
- 
- OA3286 CPAP Reduces Circulating Vascular Endothelial Growth Factor Levels in Patients with Coronary Artery Disease and Obstructive Sleep Apnoea: The RICCADSA Trial**  
Yeliz Celik (Istanbul, Turkey), Sanja Jelic, Afrouz Behboudi, Daniel J. Gottlieb, Susan Redline, Yuksel Peker
- 
- OA3287 The effect of CPAP therapy on coronary artery plaque volume in obstructive sleep apnoea: data from a proof-of-concept study**  
Cliona O'Donnell (Dublin 4, Ireland), Shane Crilly, Anne O'Mahony, Brian O'Riordan, Racheal Gitau, Donal O'Shea, David Murphy, Jonny Dodd, Silke Ryan
- 
- OA3288 Reduction in sympathetic tone in patients with obstructive sleep apnoea: Fixed is more effective than adapted pressure. A randomised, parallel clinical trial.**  
Renaud Tamisier (Grenoble, France), Erika Treptow, Sebastien Bailly, Marie Destors, Sebastien Baillieul, Rita Clin, Maelle Guellerin, Audrey Guerrache, Patrick Levy, Jean Louis Pépin
- 
- OA3289 Effects of peak-airflow triggered adaptive servo-ventilation on nocturnal cardiac arrhythmias in patients with heart failure and sleep apnoea**  
Michael Arzt (Regensburg, Germany), Christian M. Horvath, Christoph Fisser, John S. Floras, Samuel Sossalla, Stella Wang, George Tomlinson, Fiona Rankin, Clodagh Ryan, T. Douglas Bradley

- OA3290** **Impact of CPAP treatment on cardiovascular outcomes: a Catalan nationwide database analysis.**  
Jordi de Batlle (Lleida, Spain), Esther Gracia-Lavedan, Anna Garcia-Altés, Elisenda Martínez Carbonell, Manuel Sánchez-De-La-Torre, Ferran Barbé
- OA3291** **REM Sleep Less Than 30 Minutes Predicts Less CPAP Use in Adults with Coronary Artery Disease and Obstructive Sleep Apnoea**  
Baran Balcan (Istanbul, Turkey), Patrick J Strollo Jr, Yüksel Peker
- OA3292** **Adherence to CPAP treatment is associated with a decrease in the incidence of cardiovascular events: an individual participant data meta-analysis**  
Manuel Sanchez De La Torre (Lleida, Spain), Esther Gracia-Lavedan, Ivan D. Benitez, Alicia Sánchez-De-La-Torre, Anna Moncusí-Moix, Gerard Torres, Kelly Loffler, Richard Woodman, Robert Adams, Gonzalo Labarca, Jorge Dreyse, Christine Eulenburg, Erik Thunström, Helena Glantz, Yüksel Peker, Craig Anderson, Doug Mcevoy, Ferran Barbé
- OA3293** **Clinical and Economic Assessment of a Comprehensive Program to Improve Adherence of Continuous Positive Airway Pressure Treatment in Obstructive Sleep Apnea Patients in Spain: a randomized controlled trial with a Health Economic Model**  
Sarah Alami (Bagneux, France), David Rudilla, Hélène Pasche, Danielle C Zammit, Pablo Lázaro Y De Mercado, Pedro Landete Rodríguez
- OA3294** **Normalized hypercapnia is a strong predictor of survival in patients with home mechanical ventilation (HMV) - the population-based DISCOVERY study**  
Andreas Palm (Uppsala, Sweden), Ludger Grote, Össur Emilsson, Karin Ersson, Mirjam Ljunggren, Josefin Sundh, Magnus Ekstrom
- OA3295** **Discussion and Q&A**  
All Speakers

PS-1 in poster area

Session 340

16:00 - 17:30

## Poster session: Clinical problems in respiratory medicine (2)

Disease(s) : Airway diseases Interstitial lung diseases Pulmonary vascular diseases Thoracic oncology Respiratory critical care

Method(s) : Imaging Cell and molecular biology Endoscopy and interventional pulmonology General respiratory patient care  
Epidemiology Palliative care Surgery Pulmonary function testing Public health Physiology Respiratory intensive care

Tag(s) : Clinical

Chairs : Shailesh Balasaheb Kolekar (Herlev, Denmark), Anne Orholm Nielsen (Gentofte, Denmark)

- PA3297** **What clinical factors are predictive of outcome in Primary Spontaneous Pneumothorax management?**  
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Mohammed Raza, Najib Rahman
- PA3298** **The diagnostic implications of the pleural fluid cell differentiation**  
Wei Wei Ee (Bristol, United Kingdom), David T Arnold, Sonia Patole, Andrew Medford, John E Harvey, Steven Walker, Nick A Maskell
- PA3299** **Clinical, laboratory, and radiologic markers to differentiate benign pleural effusions**  
Güntülü Ak (Eskişehir, Turkey), Fatmanur Korul, Selma Metintas, Huseyin Yildirim, Muzaffer Metintas
- PA3300** **Differential diagnosis of pleural effusion using machine learning**  
Na Young Kim (Hwaseong-si, Gyeonggi-do, Republic of Korea), Boa Jang, Young-Gon Kim, Jaeyoung Cho
- PA3301** **Long term association between frailty and survival in patients with pleural disease**  
Eleanor Barton (Bristol, United Kingdom), Ben Carter, Alessia Verduri, Jessica Hughes, Jonathan Hewitt, Nick Maskell
- PA3302** **Impact of fluid overload on pulmonary function in Heart Failure: a cross-sectional study.**  
Alvaro Montañez (Mexico City, Mexico), Guiedani Haydé Galván Bautista, Dulce González-Islas, Arturo Orea-Tejeda, Pedro Carranza-Muñoz, Nadia Hernández-López, Rocío Sánchez-Sánchez-Santillán, Robinson Robles-Hernández, Ilse Pérez-García, Angelia Jiménez-Valentín, Mildred De La Concha-Duarte, Luz Jiménez-Gallardo, Arturo Rodríguez-Medina, Dalia Domínguez-Moya, Mauricio Reyes-Franco, Wendy Rodríguez-García
- PA3303** **Successful use of anti IL5 targeted therapy (Mepolizumab) in two cases of hypereosinophilic syndrome from India**  
Manu Chopra (Delhi, India), Suman Pramanik, Subhro Mukherjee, Meenakshi Chopra
- PA3304** **Ultrasound quantification versus the actual pleural fluid volume drained in patients undergoing medical thoracoscopy.**  
Vijayaravindh Ramachandran (Coimbatore, India), Isaac Barney, Gupta Richa, D.J. Christopher, Robinson Vimala Leena, Yadav Bijesh

- PA3305** **Metabolic alterations in post-COVID-19 patients with sarcopenia or sarcopenic-obesity: A cross-sectional study.**  
Alvaro Montañez (Mexico City, Mexico), Nadia Hernández López, Dulce González-Islas, Arturo Orea-Tejeda, Rocío Sánchez-Santillán, Ilse Pérez-García, Angelia Jiménez-Valentín, Rafael Hernández-Zenteno, Mariana Valdés-Moreno, Mildred De La Concha-Duarte, Luz Jimenez-Gallardo, Arturo Rodríguez-Medina, Dalia Domínguez-Moya, Guiedani Galván-Bautista, Pedro Carranza-Muñoz, Diana Torres-Gómez
- 
- PA3306** **Efecto del B-hidroxi-B-metilbutirato sobre la masa muscular en pacientes post-COVID-19: Ensayo clínico.**  
Angelia Jiménez Valentín (Mexico City, Mexico), Arturo Orea Tejeda, Dulce González Islas, Mildred De La Concha-Duarte, Luz Jimenez Gallardo, Arturo Rodríguez Medina, Alvaro Montañez Orozco, Benigno Valderrábano Salas, Dalia Domínguez Moya, Guiedani Galván Bautista, Pedro Carranza Muñoz, Nadia Hernández López, Rocío Sánchez Santillán, Ilse Pérez García, Fernando Casarín López
- 
- PA3307** **Muscle depletion on lung function in post-COVID-19 patients: a cross-sectional study.**  
Alvaro Montañez (Mexico City, Mexico), Arturo Rodríguez Medina, Dulce González Islas, Arturo Orea Tejeda, Dalia Moya Domínguez, Guiedani Galván Bautista, Pedro Muñoz Carranza, Susana Galicia Amor, Nadia Hernández Lopez, Rocío Sánchez Santillán, Ilse Pérez Gracia, Angelia Jiménez Valentín, Mildred De La Concha Duarte, Luz Jimenez Gallardo, Lizeth Castañeda Ordoñez, Alejandro García Gutiérrez
- 
- PA3308** **Pulmonary artery pseudoaneurysms (PAPs) in Hughes-Stovin syndrome (HSS) a new emerging concept with potential fatal disease course.**  
Catherine Joy Tubig (Quezon city, Philippines), Sherwina Juljani, Ma. Encarnita Limpin, Ma. Paz Mateo, Fernando Ayuyao
- 
- PA3309** **Alpha-1 antitrypsin Pi\*SS genotype and risk of pulmonary disease. An EARCO Research project**  
Teresa Martín Rioja (Lisboa, Portugal), Catarina Guimarães, Cristina Esquinas, Maria Torres, Maria Sucena, Marc Miravittles
- 
- PA3310** **Long-term follow-up of Pi\*ZZ alpha-1 antitrypsin deficient patients receiving intravenous alpha-1 antitrypsin augmentation therapy**  
Suzanne Roche (Dublin, Ireland), Daniel D Fraughen, Malcom Herron, Ronan Heeney, Lameese Alhaddah, Emma Leacy, Lasya Kanchi, Oliver J Mcelvaney, Mark P. Murphy, Tomás P Carroll, Cedric Gunaratnam, Noel G Mcelvaney
- 
- PA3311** **Hemoptysis: a retrospective analysis in a tertiary hospital of Greece**  
Dimitrios Potonos (Ioannina, Greece), Antonia Assioura, Konstantinos Exarchos, Antigoni Simou, Christina Aggelopoulou, Christos Kyriakopoulos, Evgenia Salla, Christos Chronis, Konstantinos Tatsis, Athanasios Konstantinidis, Athena Gogali, Konstantinos Kostikas
- 
- PA3312** **Impact of thrombomodulin on mortality in hospitalized patients with COVID-19: A cohort-study**  
Alvaro Montañez (Mexico City, Mexico), Luz Magdaly Jimenez Gallardo, Rocío Sánchez-Santillán, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Arturo Rodríguez, Dalia Domínguez-Moya, Guiedani Bautista-Galván, Benigno Valderrábano-Salas, Pedro Carranza-Muñoz, Nadia Hernández-López, Ilse Pérez-García, Angelia Jimenez-Valentín, Mildred De La Concha-Duarte, Adrián Rosas-Trujillo, Dennis Soler-Montalvo, Laura Flores-Cisneros, Rufina Gallardo-Reyes
- 
- PA3313** **What is the accuracy of pre-operative staging in identifying patients with single station N2 disease?**  
janet johnston (Manchester, United Kingdom), Christopher Craig, Patrick Goodley, Matthew Evison, Paul Bishop, Sarah Upperton, Matthew Callister, David Meek, Laura Succony, Wadood Parvez, Muhammad Tufail, John Maclay, Jayasekera Geeshath, Ian Woolhouse, Alana Livesey
- 
- PA3314** **Prevalence of Metabolic Syndrome in Covid-19 patients after 60 days-hospital discharge**  
Luis Fernando Pereira Brizola (Botucatu, Brazil), Robson Prudente, Mariana Dorna, Marcelo Lorena, Flavia Silva, Larissa Paciolo, Raissa Toledo, Luiz Machado, Estefania Franco, Maercio Santos, Edris Savadkouhi, Camila Colombo, Suzana Tanni
- 
- PA3315** **The impact of comorbidities contributing to QT prolongation in respiratory patients admitted to hospital**  
Aditya Adhikarla (Manchester, United Kingdom), Fortune Kwushue, Benjamin Allison, Andras Bikov
- 
- PA3316** **Management of hemoptysis in a pneumology department**  
Nemsi Ella (Tunis, Tunisia), Ben Jemai Emna, Chaabi Khouloud, Ben Attig Yosra, Khedhri Manel, Ben Amar Jihene, Boudaya Saddok, Zaibi Haifa, Aouina Hichem

PS-10 in poster area

Session 341

16:00 - 17:30

Poster session: Health effects of tobacco use

Disease(s) : Airway diseases Thoracic oncology

Method(s) : Epidemiology Pulmonary function testing General respiratory patient care Public health Cell and molecular biology Imaging Physiology Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Aslı Görek Dilektaşlı (Bursa, Turkey), Florin Dumitru Mihaltan (Bucuresti, Romania)

- PA3317 Is nicotine dependence associated with lung function, physical capacity and sleep quality ?**  
Fatma Guezguez (M'Saken, Tunisia), Nadia BEN LAZREG, Khoulood Kchaou, Balsam Barkous, Saloua Ben Khamsa
- 
- PA3318 Effects of yoga on pulmonary parameters, posture and body awareness among smokers**  
Caner Özbek (Istanbul, Turkey), Elif Develi
- 
- PA3319 Associations of Pipe and Cigar Use with Cardiopulmonary Outcomes: The NHLBI Pooled Cohort Study**  
Pallavi P. Balte (New York, United States), Jack E. Morris, Surya P. Bhatt, Pat Cassano, David Couper, David Jacobs Jr., Ravi Kalhan, Laura Loehr, Stephanie London, Anne Newman, George O'Connor, Joseph E Schwartz, Sachin Yende, Neal D. Freedman, Tiffany R Sanchez, Elizabeth Oelsner
- 
- PA3320 Herb vaporizers are not safe for health. Particles emissions from dry chamomile vaporization**  
Efthimios Zervas (Patra, Greece), Chara Tsipa, Niki Matsouki, Manos Konstantinidis, Zoe Gareiou
- 
- PA3321 A breathing human lung-on-chip to study cigarette smoke induced COPD**  
Arunima Sengupta (Bern, Switzerland), Aurélien Dorn, Nuria Roldan, Janick Stucki, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier T. Guenat
- 
- PA3322 Effect of Second-Hand Tobacco Smoke Exposure on Lung Functions of Children with Chronic Lung Disease**  
Beste Özsezen (Ankara, Turkey), Nagehan Emiralioglu, Dilber Ademhan Tural, Suna Sabuncuoglu, Gözde Girgin, Birce Sunman, Halime Nayir Buyuksahin, Ismail Guzelkas, Didem Alboga, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper
- 
- PA3323 "Chance" pilot study: hospitalization's impact on patients' smoking habit**  
Rafael Ricardo Salcedo Valenciano (Castellon, Spain), Salvador De La Torre Carazo, Esperanza Guzmán Ansado, Héctor Castro Villamor, Norman Andrés Villamagua, Irene Macarena Garcia Salazar, Erika Maria Dias Pires, Sergio Campos Téllez
- 
- PA3324 The Fagerström Test in current smokers with and without COPD: a cross-sectional study**  
Efthymia Papadopoulou (Thessaloniki, Greece), Anna-Bettina Haidich, Alexander G. Mathioudakis, Vasilios Karapetsas, Drosos Tsavlis, Stavros Tryfon
- 
- PA3325 E-Cigarette : New form of smoking in Tunisia**  
Soumaya Ben Saad (Ariana, Tunisia), Jallouli Nour Lahbib, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritar
- 
- PA3326 Interrelation between smoking, obesity and surfactant protein-D in patients with acute exacerbation COPD**  
Olha Shtepa (Dnipro, Ukraine)
- 
- PA3327 Water pipe smoking and Lung cancer, A case control study in Iran**  
Zahra Hessami (Tehran, Islamic Republic of Iran), Sogol Sobhani, Gholamreza Heydari
- 
- PA3328 Despite substantial decrease of smoking, exposure to passive smoking remains a risk factor for asthma and wheeze in children**  
Linnea Hedman (Luleå, Sweden), Helena Backman, Pablo Sundvall, Martin Andersson, Eva Rönmark
- 
- PA3329 Pneumothorax in tobacco and cannabis smokers in the Agadir region**  
Oussama HALLOUMI (AGADIR, Morocco), Khadija Aitnasser, Fatiha Bounoua, Aboubakr Imzil, Abdelkrim Khannous, Younes Essaid, Abdelmajid Oulahbib, Nada Boutbagha, Hanane Ikrou, Sofia Farhat, Houssam Ennaceri, Houda Moubachir, Hind Serhane
- 
- PA3330 Tobacco use among ICU patients with Candida auris infection in COVID 19 referral hospital.**  
Stamatoula Tsirikika (Athens, Greece), Asimina Raftopoulou, Vasiliki Nanou, Marina Asmanidou, Theoni Agapitou, Anastasia Kosmidou, Aristeia Christou, Eirini Mikrovassili, Evangelos Stefanidis, Gerasimos Mexatas, Ioannis Nikolopoulos
- 
- PA3331 Relationship between smoking status and inflammation markers in adolescents.**  
Khurshidbek Tashmetov (Tashkent, Uzbekistan), Naima Ubaydullaeva
- 
- PA3332 Study of smoking behaviour in asthmatic workers**  
Nidhal Belloumi (la soukra, Tunisia), latifa BEN AFIA, Dorra Brahim, Amen Moussa, Hanene Ben Said, Najla Mechergui, Meriem Mersni, Ghada Bahri, Imen Youssef, Nizar Ladhari, Nidhal Balloumi, Soraya Fenniche
- 
- PA3333 Changes in violations at tobacco point of sales between 2015 – 2022 in Istanbul**  
Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Tanzer Gezer, Osman Elbek, Pinar Ay, Fusun Yildiz, Banu Salepci, Pinar Bostan
- 
- PA3334 Profile of child labourers in a rural area of West Bengal: A Cross sectional study**  
Himanish Roy (Kolkata, India)

**PA3335 Early use of oral moist tobacco as related to respiratory symptoms: a cross-sectional analysis from the RHINESSA study**  
Juan Pablo López-Cervantes (Bergen, Norway), Christer Janson, Simone Accordini, Vivi Schlünssen, Randi J. Bertelsen, Cecilie Svanes

**PA3336 Effect of tobacco in the non-control of asthma among workers**  
Nidhal Belloumi (la soukra, Tunisia), latifa BEN AFIA, Dorra Brahim, Amira Bel Kahla, Hanene Ben Said, Meriem Mersni, Najla Mechergui, Ghada Bahri, Imen Youssef, Nizar Ladhari, Nidhal Balloumi, Soraya Fenniche

**PS-11 in poster area** **Session 342** **16:00 - 17:30**

**Poster session: Occupational upper and lower airway diseases**

**Disease(s) :** Airway diseases Interstitial lung diseases

**Method(s) :** Epidemiology Public health Pulmonary function testing Cell and molecular biology General respiratory patient care Imaging

**Tag(s) :** Clinical

**Chairs :** Sara De Matteis (Cagliari, Italy), Oriane Dumas (Villejuif, France)

**PA3337 Disease-specific mortality related to occupational exposure in Helsinki, Finland**  
Juuso Jalasto (Helsinki, Finland), Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Anssi Sovijärvi, Päivi Piirilä, Paula Kauppi

**PA3338 Global burden and trends of mortality and disability-adjusted life years for malignant and chronic respiratory disease attributable to occupational exposures, from 1990 to 2019: results from the Global Burden of Disease study 2019**  
Wigdan Farah (Rochester, United States), Oluwateniayo Ogunsan, Zhen Wang, Yewande Odeyemi

**PA3339 Mortality associated with occupational exposures among people with small airways obstruction**  
Valentina Quintero Santofimio (London, United Kingdom), Cosetta Minelli, James Potts, Roel Vermeulen, Hans Kromhout, Ben Knox-Brown, Johanna Feary, Andre F.S. Amaral

**PA3340 Household use of cleaning products and asthma control**  
Emilie PACHECO DA SILVA (Villejuif, France), Raphaëlle Varraso, Anne-Marine Lenzotti, Léopold Fezeu, Guillaume Sit, Pilar Galan, Serge Herberg, Mathilde Touvier, Christophe Paris, Oriane Dumas, Nicole Le Moual

**PA3341 Household use of irritants and sprayed cleaning products and asthma endotypes**  
Emilie PACHECO DA SILVA (Villejuif, France), Rachel Nadif, Eddy Dohoukpe, Laurent Orsi, Joane Quentin, Raphaëlle Varraso, Valérie Siroux, Oriane Dumas, Nicole Le Moual

**PA3342 The association of current asthma and exacerbation of asthma with using cleaning, disinfecting, and medical products in healthcare**  
Paul K. Henneberger (Morgantown, United States), Steven M. Rollins, Michael J. Humann, Xiaoming Liang, Feng-Chiao Su, Mohammed A. Virji

**PA3343 Assessment of small airways by impulse oscillometry in hospital cleaning staff**  
Bilun Gemicioğlu (Istanbul, Turkey), Betül Gültekin, Nejdiye Güngördü, Ilgım Vardaloglu, Kevser Sak

**PA3344 Long-term clinical outcome of irritant-induced asthma**  
Hille Suojalehto (Helsinki, Finland), Jussi Lantto, Irmeli Lindtröm

**PA3345 Occupational exposures to irritants and asthma in the CONSTANCES Cohort**  
Oriane Dumas (Villejuif, France), Guillaume Sit, Laurent Orsi, Yuriko Iwatsubo, Brigitte Dananché, Florence Orsi, Marcel Goldberg, Bénédicte Leynaert, Rachel Nadif, Céline Ribet, Nicolas Roche, Yves Roquelaure, Raphaëlle Varraso, Marie Zins, Corinne Pilorget, Nicole Le Moual

**PA3346 Zintec coated steel, a cause of occupational asthma in welders**  
Vicky Moore (Coventry, United Kingdom), Gareth Walters, Alastair Robertson, Sherwood Burge

**PA3347 Thymic stromal lymphopoietin contributes to ozone-induced pulmonary responses in mice**  
Hiroki Tashiro (Saga, Japan), Yuki Kurihara, Koichiro Takahashi, Yoshie Konomi, Shinya Kimura, Sueoka-Aragane Naoko

**PA3348 Asthma control in severe asthma and occupational exposures to inhaled asthmagens**  
Gareth Walters (Birmingham (West Midlands), United Kingdom), Christopher Reilly, Nicole Le Moual, Christopher Huntley, Hanan Hussein, Thirumala Krishna, Adel Mansur

**PA3349 Occupational exposures and asthma control among adults from Northern Finland**  
Maritta S. Jaakkola (Oulu, Finland), Penpatra Sribaiboonkij, Henna Hyrkäs-Palmu, Jouni J.K. Jaakkola

- PA3350** **Respiratory health among operators working in polymer additive manufacturing**  
Anna-Carin Olin (Göteborg, Sweden), Ann-Charlotte Almstrand, Anna Bredberg, Gunilla Runström, Helen Karlsson, Maria Assenhøj, Hatice Koca Akdeve, Håkan Tinnerberg
- PA3351** **Long-term indoor shooting exposure of special police forces induces bronchitic reactions – the Berlin Shooting Range Study**  
Christian Witt (Berlin, Germany), Rudolf Tauber, Dennis Nowak, Andrew Coats, Uta Liebers
- PA3353** **COPD in a sample of working population**  
Jordan Minov (Skopje, North Macedonia), Sasho Stolesski, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska
- PA3354** **Occupational COPD; ten years' experience from a UK occupational lung disease reporting scheme**  
Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), David Fishwick, Loren Zelic, Rheanna Pereira, Laura Byrne, Melanie Carder, Martie Van Tongeren
- PA3355** **Correlation between reduced lung attenuation in quantitative CT imaging and lung function trajectory in World Trade Center (WTC) disaster responders**  
Rafael E. de la Hoz (New York, United States), Jonathan Weber, Raúl San José Estépar, John Doucette, Juan Celedón
- PA3356** **Evaluation of Voice Quality in Pulmonary Function Tests Laboratory Technicians**  
Gökçen Ömeroğlu Şimşek (Izmir, Turkey), Melike Yüksel Yavuz, Nejdiye Güngördü

PS-12 in poster area

Session 343

16:00 - 17:30

## Poster session: The bugs in lung transplantation

Disease(s) : Respiratory critical care Interstitial lung diseases Airway diseases

Method(s) : Pulmonary function testing Transplantation Cell and molecular biology Endoscopy and interventional pulmonology Imaging Respiratory intensive care

Tag(s) : Clinical

Chairs : Vicky Gerovasili (Rickmansworth, United Kingdom), Peter Jaksch (wien, Austria)

- PA3357** **Microbiological surveillance after lung transplant: focus on fungi**  
Irene Tomarelli (milano, Italy), Filippo Maraz, Valeria Rossetti, Letizia Corinna Morlacchi, Ilaria Righi, Davide Tosi, Marco Mantero, Mario Nosotti, Francesco Blasi
- PA3358** **The pleural microbiome in lung transplant recipients and non-transplant patients**  
Carlo Mümmeler (München, Germany), Michael Gerckens, Silvia Gschwendtner, Diego Kauffmann-Guerrero, Katrin Milger, Jürgen Behr, Nikolaus Kneidinger
- PA3359** **Treatment of fungal infections in lung transplant recipients: is standard dose adjustment of tacrolimus sufficient?**  
Tanja Zijp (Groningen, Netherlands), Fadia Hadi, Stephan Bakker, Job Van Boven, Tji Gan, Daan Touw
- PA3360** **Transmission and persistent SARS-CoV-2 infection in a lung transplant recipient with Molnupiravir-induced hypermutation**  
Bjoern Frye (Freiburg, Germany), Ina Hettich, Vivien Karl, Lena Jaki, Daiana Stolz, Maike Hofmann, Jonas Fuchs
- PA3361** **Lung Transplantation for COVID-19-Related Respiratory Failure: 1-year outcome of 29 patients**  
Zsófia Kovacs (Wien, Austria), Peter Jaksch, Konrad Hötzenecker, Gabriella Muraközy
- PA3362** **Use of Favipiravir as a Broad-Spectrum Virostatic Drug in Lung Transplant Recipients**  
Andrea Zajacova (Prague, Czech Republic), Eliska Dvorackova, Luis Fernando Casas-Mendez, Ales Brix, Tereza Kotowski, Jan Havlin, Robert Lischke, Libor Fila, Petr Hubacek
- PA3363** **Program cell death 1 (PD1) and program cell death ligand 1 (PDL1) expression in pulmonary aspergillosis with and without SARS-CoV-2 virus infection.**  
Shiang-Fen Huang (Taipei, Taiwan), Kun-Ta Chou, Yu-Chi Huang, Hao-Chia Lin, Ping-Feng Wu
- PA3364** **Plasma virome dynamics after lung transplantation**  
Victoria Ruiz (Barcelona, Spain), Vicente Pérez-Brocal, Meritxell Boada-Pérez, Berta Saez, Ibai Los-Arcos, Maria Deu, Marta Zapata-Ortega, Judit Sacanell, Alba Santiago, Andrés Moya, Victor Monforte, Cristina Berastegui, Susana Gomez-Olles
- PA3365** **The impact of COVID-19 on long term lung function in lung transplant recipients: a single-center retrospective study**  
Brice Touilloux (Fribourg, Switzerland), Matthaios Papadimitriou-Olivgeris, Cédric Bongard, Nahal Mansouri, Foteini Ioakeim, John-David Aubert, Oriol Manuel, Angela Koutsokera, Alessio Casutt



- PA3366** **Late Breaking Abstract - Bedside non-invasive radiation-free lung ventilation/perfusion mapping by electrical impedance tomography in lung transplant recipients**  
Vittorio Scaravilli (MILAN, Italy), Jacopo Fumagalli, Valentina Cattaneo, Francesco Damarco, Letizia Morlacchi, Giacomo Grasselli
- PA3367** **Late Breaking Abstract - Speckle-tracking right ventricle free wall longitudinal strain: a new non-invasive highly sensitive tool for screening right ventricle function of lung transplant candidates**  
Paolo Meani (Milan, Italy), Vittorio Scaravilli, Silvia Scansani, Letizia Morlacchi, Valeria Rossetti, Marco Vicenzi, Gloria Turconi, Valeria Musso, Amedeo Guzzardella, Mario Nosotti, Francesco Blasi, Giacomo Grasselli
- PA3368** **Late Breaking Abstract - High burden of early complications in outcome of lung transplantation for non-cystic fibrosis bronchiectasis**  
Sixtine Decaux (Paris, France), Antoine Roux, Hervé Mal, Matthieu Glorion, Sandra De Miranda, Edouard Sage, Vincent Bunel, Yves Castier, Arnaud Roussel, Philippe Montravers, Pierre Mordant, Jonathan Messika
- PA3369** **Late Breaking Abstract - Diversity of endothelial cells in restrictive allograft syndrome**  
Lena Maureen Leiber (Hannover, Germany), Hande Yilmaz, Leonard Christian, Jan-Christopher Kamp, Lavinia Neubert, Tobias Welte, Christine Falk, Danny Jonigk, Jens Gottlieb, Jonas Christian Schupp

PS-13 in poster area

Session 344

16:00 - 17:30

Poster session: Effects of CFTR modulator therapy in cystic fibrosis

Disease(s) : **Airway diseases**

Method(s) : General respiratory patient care Imaging Pulmonary function testing Surgery Physiology Epidemiology Cell and molecular biology Transplantation

Tag(s) : Clinical

Chairs : Stojka Fustik (Skopje, North Macedonia), Mirjam Stahl (Berlin, Germany)

- PA3370** **Cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapy (ETI) for one-year and changes in chronic rhinosinusitis in people with cystic fibrosis (pwCF)**  
Shahid Sheikh (Columbus, United States), Mai-Lan Ho, Mariah Eisner, Courtney Gushue, Grace Paul, Karen McCoy, Meredith Lind
- PA3371** **Impact of Kaftrio on exercise capacity in children with Cystic Fibrosis**  
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Natalie Blyth, Joe Madge, Erol Gaillard
- PA3372** **Cystic fibrosis transmembrane regulator modulator therapies effect on liver function in Bulgarian patients**  
Dilyana Petkova (Sofia, Bulgaria), Mila Baycheva, V Petkova, Vera Papochieva, Kristin Genkova, Yana Andonova, Ivaylo Nikolov, Polina Shahid, Dimitrinka Miteva, Guergana Petrova
- PA3373** **Evaluation of the impact of cystic fibrosis modifier therapies on liver function in children and young adults**  
Sophie Hodgson (Glasgow, United Kingdom), Lyndsay Kennedy, Anne Devenny, Susan Kafka, Louise Thomson, Jane Davis
- PA3374** **Modulatory therapy experience in patients with cystic fibrosis in Turkey: A multi-center study**  
Pinar Ergenekon (Istanbul, Turkey), Ela Erdem Eralp, Ayse Ayzit Kilinc Sakalli, Muruvvet Yanaz, Azer Kilic Baskan, Aynur Gulieva, Sevgi Pekcan, Salih Uytun, Erkan Cakir, Bulent Karadag, Pelin Asfuroglu, Erdem Basaran, Velat Sen, Fazilet Karakoc, Esen Demir, Veysel Karakulak, Sedat Oktem, Zeynep Seda Uyan, Yasemin Gokdemir
- PA3375** **Correlations between in-vitro and clinical drug response to CFTR modulators**  
Felix Ratjen (Toronto (ON), Canada), Sanja Stanojevic, Tarini Gunawardena, Theo Moraes, Tanja Gonska, Paul Eckford, Christine Bear
- PA3376** **Exercise tolerance in cystic fibrosis patients treated with elexacaftor/tezacaftor/ivacaftor**  
Ivan Bambir (Zagreb, Croatia), Lovro Hrvoić, Lana Omerza, Ivana Todorić, Ivona Markelić, Andrea Vukić Dugac, Duška Tješić-Drinković
- PA3377** **CFTR modulators modify exhaled breath of children with cystic fibrosis within a week.**  
Emmanuelle Bardin (Paris, France), Nicolas Hunzinger, Elodie Lamy, Bingqing Zhou, Natasha Remus, Laurence Le Clainche Viala, Philippe Devillier, Frederique Chedeveigne, Stanislas Grassin Delyle, Isabelle Sermet-Gaudelus
- PA3378** **Fraction of exhaled nitric oxide increases in children treated with elexacaftor-tezacaftor-ivacaftor**  
Isaac Martin (Toronto, Canada), Felix Ratjen, Hartmut Grasemann
- PA3379** **Nutritional status of cystic fibrosis patients under CFTR modulators therapy - a 6 months experience**  
Mihaela Dediu (Timisoara, Romania), Diana Popin, Liviu Laurentiu Pop, Ioana Mihaiela Ciuca
- PA3380** **Impact of elexacaftor/tezacaftor/ivacaftor on chronic rhinosinusitis in children with cystic fibrosis.**  
Beatrice Della Gatta (Torino, Italy), Lucia Ronco, Federica Peradotto, Elisabetta Bignamini

- PA3381** **Description of the variations in airway colonization in patients with cystic fibrosis in treatment with the combination of Ivacaftor, Tezacaftor and Elexacaftor (ITE)**  
Jonathan Benito Patón (TORRENT, Spain), Sergio Iniesta González, Claudia López Pavía, Teresa Pérez Sanz, Lucía González Álvarez, Jose Vicente Arcos Machancoses, Elena Crehuá Gaudiza, Silvia Castillo Corullón
- PA3382** **Improved bone mineral density following highly effective CFTR modulator treatment in children and young adults with cystic fibrosis**  
Aleksandra Zver (Ljubljana, Slovenia), Jasna Rodman Berlot, Darja Šmigoc Schweiger, Malena Aldeco, Dušanka Lepej, Marina Praprotnik, Gaja Setnikar Kimovec, Saša Šetina Šmid, Uroš Krivec
- PA3383** **The long-term respiratory effect of Elexacaftor/Tezacaftor/Ivacaftor in people with cystic fibrosis**  
Mohamad Hadhud (jerusalem, Israel), Joel Reiter, Alex Gileles-Hillel, Ido Sadras, Eitan Kerem, Malena Cohen-Cymerknoh, Oded Breuer
- PA3384** **CFTR-modulator therapy effect assessed by CT and MBW in infants and toddlers with CF**  
Rikke Sandvik (Copenhagen, Denmark), Yuxin Chen, Marianne Skov, Frederik Buchvald, Lotte Borgwardt, Tacjana Pressler, Harm Tiddens, Kim Nielsen
- PA3385** **Possible founder effect and prevalence of the p.Cys1400Ter pathogenic CFTR mutation in Cyprus**  
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Pavlos Fanis, Panayiotis Kouis, Phivos Ioannou, Constantina Costi, Andreas Matthaïou, Tonia Adamidi, Leonidas Phylaktou, Vassos Neocleous, Panayiotis Yiallourous
- PA3386** **Late Breaking Abstract - Infertility among adults with primary ciliary dyskinesia**  
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Yin Ting Lam, Katie Dexter, Michele Manion, Sophie Christin-Maitre, Nathalie Massin, Bernard Maitre, Myrofora Goutaki, Claudia E Kuehni
- PA3387** **Late Breaking Abstract - Epidemiology, clinical features and disease severity in pediatric patients with COVID-19 in maternal and children's central hospital in Batumi, Georgia**  
Tamar Bakhtadze (Batumi, Georgia), Vakhtang Beridze, Veriko Takidze, Miranda Shervashidze

PS-14 in poster area

Session 345

16:00 - 17:30

Poster session: Update on respiratory physiotherapy in different perspectives of the field

Disease(s) : Sleep and breathing disorders Thoracic oncology Airway diseases Interstitial lung diseases Respiratory critical care Pulmonary vascular diseases

Method(s) : Pulmonary rehabilitation Epidemiology Public health Pulmonary function testing General respiratory patient care Surgery Respiratory intensive care Imaging

Tag(s) : Clinical

Chairs : Christian Osadnik (Melbourne, Australia), Jana De Brandt (Umeå, Sweden)

- PA3388** **Difference in diagnostic accuracy of several respiratory muscle assessments to predict weaning outcomes: sensitivity analyses (SA) of a systematic review and meta-analysis**  
Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Jan Verbakel, Yasir Qaiser Choudhari, Débora Ribeiro Campos, Greet Hermans, Rik Gosselink, Daniel Langer
- PA3389** **Inspiratory effort and activation of extradiaphragmatic inspiratory muscles in a difficult to wean (DTW) patient during different breathing conditions.**  
Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Beatrix Clerckx, Jan Muller, Greet Hermans, Rik Gosselink, Daniel Langer
- PA3390** **Investigation of psychometric properties of De-Morton Mobility Index in the intensive care survivors**  
Büsra Turgut (Izmir, Turkey), Ilknur Naz, Ozlem Edipoglu, Cenk Kıraklı
- PA3391** **Tissue oxygen saturation of quadriceps muscle for critically ill patients receiving mechanical ventilation**  
Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Ryuji Sugiya, Yusuke Nagae, Yuichi Tawara, Masashi Shiraishi, Yuji Higashimoto, Hironori Shigeoka
- PA3392** **Investigation of the relationship between respiratory muscle strength and endurance capacity in liver cirrhosis: a pilot study**  
Bilge Taşkın (Ankara, Turkey), Naciye Vardar-Yağlı, Melda Sağlam, Onur Keskin, Ahmet Bülent Doğrul
- PA3393** **Relationship between respiratory muscle strength and functional capacity in patients undergoing oncological abdominal surgery**  
Fatma Rümeyşa Kasap (Ankara, Turkey), Naciye Vardar Yagli, Melda Sağlam, Deniz Inal Ince, Ebru Calik Kutukcu, Derya Karakoc, Erhan Hamaloglu
- PA3394** **National observational study of first mobilization after cardiac surgery**  
Elisabeth Westerdahl (Örebro, Sweden), Johanna Lilliecrona, Monika Fagevik Olsén

- PA3395 Impact of cancer treatment on physical performance in early-stage non-small cell lung cancer**  
Kirsten Quadflieg (Hasselt, Belgium), Eva Arents, Sarah Haesevoets, Fien Hermans, Maarten Criel, Marc Daenen, David Ruttens, Michiel Thomeer, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Eric Derom, Heleen Demeyer, Chris Burtin
- PA3396 Symptoms experienced by people with lung, head and neck cancer during an exercise training program delivered as a complementary treatment to usual care**  
Karina Marcela Morro Pozo (Presidente Prudente, Brazil), Matheus Pedrosa, Vinicius Cavalheri, Paloma Borges, Thamirys Serafim, Diogo Gonçalves Ribeiro, Enio Rodrigues Maia, Dionei Ramos, Nara Ielo, Isis Grigoletto, Ercy Mara Cipulo Ramos
- PA3397 Objectively measured physical activity and clinical correlates after pulmonary embolism**  
Stacey Haukeland-Parker (Moss, Norway), Øyvind Jervan, Waleed Ghanima, Martijn A. Spruit, Mazdak Tavoly, Jostein Gleditsch, Knut Stavem, Hege Hølmo Johannessen
- PA3398 Heart Rate Recovery and Chronotropic Response on Exercise in Colorectal Cancer Survivors**  
Mehmet Fatih Sanver (Kütahya, Turkey), Naciye Vardar Yagli, Melda Saglam, Ebru Calik Kutukcu, Deniz Inal Ince, Saadettin Kilickap
- PA3399 6MWT and ISWT: Levels of agreement between different in-person and remote testing procedures in lung transplant candidates**  
Lisa Wickerson (Toronto (ON), Canada), Manoela De Paula Ferreira, Dmitry Rozenberg, Sunita Mathur, Lianne Singer
- PA3400 Patient experience with fully remote inspiratory muscle training device**  
Martin Dvořáček (Bouzov, Czech Republic), Pavla Horová
- PA3401 Investigation of respiratory muscle strength and pulmonary functions in patients with neuropsychiatric disorder**  
Furkan Özdemir (Ankara, Turkey), Naciye Vardar Yağlı, Betül Tufanoğlu, Belda Çağlayan
- PA3402 Dyspnea impacts right emotional cerebral blood flow**  
Kazuhiro Kimpara (hamamatsu, Japan), Shinichi Arizono, Yuichi Tawara, Natsumi Tanaka, Maki Takayama, Daiki Takahashi
- PA3403 Remotely delivered pulmonary rehabilitation assessments - a quality improvement project to tackle long pulmonary rehabilitation waiting list at King's College Hospital**  
Maria Koulopoulou (London, United Kingdom), Victoria Meyrick, Michelle Johnson, Charles Reilly, Arun Shuresh Kumar, Peter Cho, Caroline Jolley, Savannah Ramos-Smith
- PA3404 Development of theoretically informed audit and feedback to improve asthma self-management in UK primary care**  
Hilary Pinnock (Edinburgh (Édinburgh), United Kingdom), Kirstie McClatchey, Aimee Sheldon, Liz Steed, Jessica Sheringham, David Price, Stephanie Jc Taylor
- PA3405 Asthma in Brazil: an epidemiological analysis from 2008 to 2021**  
David Halen Araújo Pinheiro (São Paulo, Brazil), João Victor Hermógenes De Souza, Fabiano Francisco De Lima, Alberto Fernando Oliveira Justo, Vitoria Zacarias Cervera, Regina Maria Carvalho-Pinto, Celso R F Carvalho
- PA3406 Respiratory Functions, Respiratory Muscle Strength, and Postural Abnormalities in Patients with Temporomandibular Joint Dysfunction**  
Seda Saka (Istanbul, Turkey), Musab Deniz, Deniz Tuncer

PS-15 in poster area

Session 346

16:00 - 17:30

Poster session: COVID-19 diagnostics and pathogenesis

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Respiratory critical care](#)

Method(s) : Epidemiology Public health General respiratory patient care Imaging Pulmonary function testing Cell and molecular biology Respiratory intensive care

Tag(s) : Clinical

Chairs : Mattia Nigro (Opera (MI), Italy), Dumitru Chesov (Chisinau, Republic of Moldova)

- PA3407 Breath of Health: Spectroscopy Breath Test for the Detection of SARS-CoV-2**  
Dan Padawer (Jerusalem, Israel), Mutaz Karamah, Abed Qadan, Fares Darawshy, Aria Laor, Zvi G Fridlender
- PA3408 Role of Artificial-Intelligence Powered Digital-Health in Reducing Strain on Health-Care-System: First of Its Kind experience in COVID19-Pandemic.**  
Aman Ahuja (Vellore, India), Pawan Singh, Dhruva Chaudhry
- PA3409 PCR PERFORMANCE FOR SARS-CoV-2 PRIOR TO RESPIRATORY FUNCTIONAL TESTS AND THE RELATIONSHIP WITH CONTAGION RATES.**  
Maria Zuñil Moreno (Lleida, Spain), Faty B.A. Seck-Mboup, Sally Santistevé, Maria Aguilà, Mar Malla-Bañeres, Iván D. Benítez, Rosa Sarrat, Adriana Sabaté, Adriana Fulga, Clara Gort-Paniello, Ferrán Barbé, Jessica González

- PA3410 Effect of a Functional Phospholipid Metabolome-Protein Association Pathway on the Mechanism of COVID-19 Disease Progression**  
Baoqing Sun (Guangzhou (Guangdong), China), Mingshan Xue, Teng Zhang, Zhangkai J Cheng, Baojun Guo, Yifeng Zeng, Runpei Lin, Peiyan Zheng, Mingtao Liu, Qi Zhao, Xiaoping Tang
- 
- PA3411 Single-cell RNA sequencing of bronchoalveolar lavage fluid reveals potential increase in antigen presentation pathways and cellular immunity in airways of pulmonary long COVID**  
Elizabeth Guinto (Vancouver, Canada), Firoozeh V. Gerayeli, Stephen Milne, Rachel L. Eddy, Tara Stach, Chen Xi Yang, Xuan Li, Chung Yan Cheung, Julia Shun-Wei Yang, Janice M. Leung, Don D. Sin
- 
- PA3412 NEBULIZATION AND COVID-19: THE RISK OF SPREAD DURING A NEBULIZATION SESSION IS ACTUAL**  
Christophe Thibon (Bruxelles, Belgium), Laurent Vecellio, Leila Belkhir, Jean-Christophe Dubus, Annie Robert, Benoit Kabamba, Grégory Reyckler
- 
- PA3413 Omicron BA.5 - 5 days of isolation during hospital admission, is it enough?**  
Ana Rita Ribeiro (Ansião, Portugal), Catia Saraiva, Marta Domingos, Daniela Louro, Domitília Faria
- 
- PA3414 Risk factors for COVID-19: A test-negative case-control study**  
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yngvar Tveten, Harald Reiso, Carina Thilesen, Svein Arne Nordbø, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandembroucke, Anne Kristin Møller Fell
- 
- PA3415 Symptomatic prolonged viral shedding in long COVID - Our experience with remdesivir**  
Leng Cheng Sia (Kuala Lumpur, Malaysia), Yong-Kek Pang, Chee Kuan Wong, Chun Ian Soo, Nur Husna Ibrahim, Vijayan Munusamy, Thian Chee Loh, Ka Kiat Chin, Mau Ern Poh, Jiunn Liang Tan, Chong-Kin Liam
- 
- PA3416 Incidence of viral respiratory infections, excluding SARS-CoV-2, during COVID-19**  
Souid Fatima zahra (Alger, Algeria), Zerouki Ali, Benarfa Noumaira, Tareb Djouher, Chaabani Madjid, Bensersa Doria, Aggoune Nadjet, Nemra Abdelkader, Nebih Mounir, Sebahi Hamza
- 
- PA3417 Bacterial co-infection, secondary bacterial infection and patterns of antibiotic use in adult patients with COVID-19 pneumonia admitted at the Manila Doctors Hospital, Philippines**  
Jan Michael Lo (Dasmariñas City, Philippines), Jener De Castro, Jennifer Sison-San Luis
- 
- PA3418 Post COVID-19 HRCT features related to inpatient ward therapy history: A preliminary study**  
Laharsa Madison (Jakarta, Indonesia), Dianiat Kusumo Sutoyo, Fanny Fachrucha, Aziza Ghanie Icksan
- 
- PA3419 Clinical epidemiological study of hospitalized patients with severe COVID-19 – current data**  
Elena Borissova (Pleven, Bulgaria), Snejanka Ivankovska, Plamen Pavlov, Pavlina Glogovska
- 
- PA3420 Healthcare associated infections on a respiratory ward in Athens during the Covid-19 pandemic**  
Iris-Theodora Vlachantoni (Athens, Greece), Romina Chatzipetrou, Anastasia Levounets, Eirini Skontzou, Andrea Kyriacou, Lamprini Vlassi, Chrysa Kontogianni, Konstantinos Samitas, Zafeiris Sardelis, Evangelos Markozannes, Theoplasti Grigoratou, Eleftherios Zervas, Lykourgos Kolilekas
- 
- PA3421 Validity and reliability evidence of Fear of COVID-19 Scale in Greek people with Chronic Obstructive Pulmonary Disease.**  
Andreas Daskalakis (N. Smyrni - Athens, Greece), Stavroula Giannoulaki, Irini Patsaki, Maria Moutzouri, George Koumantakis, Aikaterini Haniotou, Afroditi Evangelodimou, Irini Grammatopoulou
- 
- PA3422 Lung ultrasonography in post-COVID-19 follow-up in correlation with chest computed tomography.**  
Katarzyna Zimna (Warszawa, Poland), Małgorzata Sobiecka, Dorota Wprostkiewicz, Monika Szturmowicz, Witold Tomkowski
- 
- PA3423 Late Breaking Abstract - Change in post-COVID-19 long term symptoms after use of intranasal chlorpheniramine during the acute phase: Inquiry after two randomized controlled trials**  
Franck Rahaghi (Weston, United States), Estela Pineda, Mari Tesch, Farbod Rahaghi, Fernando Valerio-Pascua
- 
- PA3424 Late Breaking Abstract - Association with changes in pulmonary artery diameters and outcomes before, during and after COVID-19 hospitalization: Retrospective Study**  
Aybuke Selcuk (Berlin, Germany), Derya Kocakaya, Şehnaz Olgun Yildizeli, Sait Karakurt
- 
- PA3425 Late Breaking Abstract - Increased SARS-CoV-2 infection in asthmatic primary bronchial epithelial cells defined with single cell RNA-sequencing**  
Matt Johansen (Camperdown, Australia), Sobia Idrees, Fia Boedijono, Stefan Miemczyk, Duc Nguyen, Kristy Nichol, Peter Wark, Alen Faiz, Philip Hansbro

**Late Breaking Abstract - Host response changes and phenotypes in lymphopenic COVID-19 patients and their association with mortality**

PA3426 Erik Michels (Amsterdam, Netherlands), Brent Appelman, Justin De Brabander, Rombout Van Amstel, Christine Van Linge, Osoul Chouchane, Tom Reijnders, Alex Schuurman, Titia Sulzer, Augustijn Klarenbeek, Renée Douma, Lieuwe Bos, W. Joost Wiersinga, Hessel Peters-Sengers, Tom Van Der Poll

PS-16 in poster area

Session 347

16:00 - 17:30

Poster session: Pleural malignancy at the cutting edge: clinical studies, translation, and mechanisms

Disease(s) : Thoracic oncology Airway diseases

Method(s) : General respiratory patient care Epidemiology Endoscopy and interventional pulmonology Surgery Cell and molecular biology Physiology Palliative care Imaging

Tag(s) : Translational

Chairs : Selina Tsim (Glasgow (Glasgow), United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom)

PA3427 **Comparing the Success Rate of Pleurodesis with Thoracoscopic Talc Poudrage Combined with Indwelling Pleural Catheter versus Thoracoscopic Talc Poudrage in Patient with Malignant Pleural Effusion, A Randomized, Non-inferiority Clinical Trial**

Vorawut Thanthitaweevat (Bangkok, Thailand), Jitanong Sootlek

PA3428 **Symptom-guided drainage and autopleurodesis rates in patients with Indwelling Pleural Catheters (IPCs) for malignant pleural effusions**

Isaac Fong (Singapore, Singapore), Wui Mei Chew, Kah Yee Tham, Marnie Tamayo Gutierrez, Aza Taha, Sandra Hui, Imran Bin Mohamed Noor

PA3429 **Getting the basics right. Optimal catheter size for the pleurodesis of recurrent malignant pleural effusions**

Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Konstantinos Stefanidis, Evangelos Fergadis, Stylianos Michelis, Ioannis Provas, Georgios Gkantinas, Theodoros Fachouridis, Ioannis Stamatatos, Theoni Kiknadze, Antonios Katsantonis, Georgios Anagnostopoulos, Georgios Benakis, Antonios Antoniadis, Nikolaos Tzatzadakis, Efstathios Metaxas

PA3430 **Ultrasonic Elastography-guided Pleural Biopsy for the Diagnosis of Pleural Effusion, An Observational Prospective Multicentric Study**

Mingming Deng (Beijing, China), Gang Hou

PA3431 **Cell block in malignant pleural fluids- a safe tool in the evaluation of histopathological predictive factors.**

Daniela Xhemalaj (Tirana, Albania), Fatmir Caushi, Ilir Skenduli, Jonida Tula, Elona Hysenbelli, Jolanda Nikolla, Elvira Kozma, Elona Hila, Silva Bala

PA3432 **Determining the clinical utility of a breath test to screen an asbestos-exposed population for pleural mesothelioma.**

Kathleen Zwijsen (Wilrijk, Belgium), Joris Van Cleemput, Caroline Jonckheere, Tom Richart, Kristiaan Nackaerts, Veerle Surmont, Jan P. Van Meerbeeck, Kevin Lamote

PA3433 **Cutting-edge tools for lung cancer-related pleural effusion detection**

Tan Shu Feng (Ipoh, Malaysia), Ummi Nadira Daut, Jamalul Azizi Bin Abdul Rahaman, Mohammad Zulkarnain Bidin, Siti Hajar Binti Umar

PA3434 **An update regarding the Meso-ORIGINS study: part of the PREDICT-Meso International Accelerator**

Mark Neilly (Glasgow, United Kingdom), Selina Tsim, John Maclay, Rocco Bilancia, Anna Bibby, Timothy Gatheral, Alina Ionescu, Andrew Griffiths, Avinash Aujayeb, Najib Rahman, Janet Fallon, Christopher Craig, Michelle Macdougall, John Corcoran, Rakesh Panchal, Mahendran Chetty, Kevin Lamote, Gordon Cowell, Crispin Miller, Robert Rintoul, Jan Van Meerbeeck, Joshua Roche, Alexandra Macpherson, Laura Alexander, Julie Roberts, Jacqui Gourlay, Joanne Megarry, Nicola Walker, Kevin Blyth

PA3435 **Dactinomycin could prime immune cell therapy via activation of tumour cell STING**

Yu Zhao (Headington, Oxford, United Kingdom), Nikolaos I Kanellakis, Yanchun Peng, Beibei Wang, Adan Pinto Fernandez, Megat Bin Abd Hamid, Xuan Yao, Elie Antoun, Simeon Draganov, Tao Dong, Najib M Rahman

PA3436 **Patient-derived organoids of malignant pleural mesothelioma**

Francesca Gonnelli (Ancona, Italy), Luca Volpini, Federica Monaco, Marco Tomasetti, Francesca Barbisan, Gaia Goteri, Lory Santarelli, Lina Zuccatosta, Federico Mei

PA3437 **Primary cilium associated BBSome gene expression during inflammatory stress in mesothelial cells and primary mesothelioma cells.**

Erasmia Rouka (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsiou, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotirios Zarogiannis

- PA3438** **Phenotype and characterisation of the immunosuppressive mechanisms of malignant pleural effusion fluid**  
Nikolaos I. Kanellakis (Oxford, United Kingdom), Yu Zhao, Zheqing Zhang, Megat Abd Hamid, Yanchun Peng, Tao Dong, Najib M. Rahman
- PA3439** **Multicenter analysis of procedural burden and diagnostic delay in patients with malignant pleural effusions**  
Louis Yeung (Sydney, Australia), Simon Graffen, Jonathon Parker, Andrew Oaten, Vineeth George
- PA3440** **Seven year retrospective analysis of the pleural procedure service at Singleton hospital**  
Jennifer Park (Swansea, United Kingdom), Matthew Renwick, Mohammad Sanim Yasar, Narendrababu Rampura Chinnappa
- PA3441** **Understanding trends of malignant pleural effusion and ascites in metastatic intra-abdominal cancers**  
Beenish Iqbal (Oxford, United Kingdom), Anand Sundaralingam, Dinesh Addala, Poppy Denniston, Suzy Guo, Rob Hallifax, Najib M Rahman
- PA3442** **Prevalence and clinical significance of non-expandable lung in malignant pleural effusion in Asians**  
Charles Wong (Hong Kong, Hong Kong), Hei-Shun Cheng, Chun-Wai Tong, Pui-Hing Chiu, Flora Pui-Ling Miu, Loretta Yin-Chun Yam
- PA3443** **Clinical characteristics of pleural effusion with exudative and transudative borderline properties**  
Akiko Sano (Osaka, Japan), Hiroyuki Sano, Osamu Nishiyama, Yuji Tohda, Hisako Matsumoto
- PA3444** **The continued burden of pleural mesothelioma; a review of 10 years experience at this hospital Trust**  
Qasim Gohir (Telford, United Kingdom), Julia Mcadam, Emma Crawford, Olivia Boshier, Muhammad Saleem, Koottalai Srinivasan, Harmesh Moudgil
- PA3445** **Malignant pleural mesothelioma. Description of 70 cases in the last decade.**  
Fernando Garcia Prieto (Getafe, Spain), Sara Calero Pardo, María Teresa Rio Ramirez, Cristina Matesanz López, Jose Maria Diaz Garcia, Beatriz Raboso Moreno, Araceli Abad Fernandez

PS-17 in poster area

Session 348

16:00 - 17:30

## Poster session: Comprehensive management in pulmonary fibrosis

Disease(s) : **Interstitial lung diseases** **Sleep and breathing disorders** **Airway diseases**Method(s) : General respiratory patient care Cell and molecular biology Pulmonary function testing Physiology Public health  
Epidemiology Imaging Transplantation

Tag(s) : Clinical

Chairs : Martina Koziar Vasakova (Praha 10, Czech Republic), Thomas Skovhus Prior (Egå, Denmark)

- PA3446** **Trends in lung transplantation (LTx) in Spain among patients suffering or not from IPF (2016 -2020)**  
Ana Isabel Higes Diaz (Madrid, Spain), Belen Lopez-Muñiz Ballesteros, Christian Alonso Correa Gonzalez, Cristina Sánchez Fernández, Rodrigo Jiménez García, Ana Lopez De Andres, Javier De Miguel Díez
- PA3447** **Dyspnea scale and 1-min sit-to-stand test can predict frailty status in interstitial lung disease patients**  
Keiji Oishi (Ube, Japan), Maki Asami-Noyama, Tasuku Yamamoto, Kazuki Hamada, Ryo Suetake, Syuichiro Ohata, Kenji Sakamoto, Yoriyuki Murata, Yoshikazu Yamaji, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga
- PA3448** **Combined scores from cardiopulmonary exercise tests can predict mortality in patients with interstitial lung disease**  
Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng
- PA3449** **Lung dysbiosis index as a biomarker for interstitial lung disease**  
Kristel Svalland Knudsen (Bergen, Norway), Rune Nielsen, Xenia Roda, Gunnar Reksten Husebø, Andreu Paytuvi, Walter Sanseverino, Sverre Lehmann, Tomas Mikal Eagan
- PA3450** **Antacid and patient survival in idiopathic pulmonary fibrosis**  
Jin-Young Huh (, Republic of Korea), Jin Woo Song
- PA3451** **Investigation of pepsin levels in bronchial lavage in patients with interstitial lung disease and chronic cough**  
Selen Ala (Samsun, Turkey), Nurhan Köksal, Bahattin Avcı, Tibel Tuna, Yusuf Taha Güllü
- PA3452** **The eating and drinking experience in patients with IPF: a qualitative study**  
(, ), Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson
- PA3453** **NUTRITIONAL STATUS IN IDIOPATHIC PULMONARY FIBROSIS**  
Esther Sánchez Alvarez (Málaga, Spain), Eva B. Cabrera Cesar, Rocio Fernández Jiménez, Francisco Espildora Hernandez, José Manuel García Almeida, Jose Luis Velasco Garrido

- PA3454 Co-designing a Core Outcome Set for and with patients with Pulmonary Fibrosis (COCOS-IPF project): a joint patient-professional effort**  
Vivien Somogyi (Heidelberg, Germany), anouk delameillieure, Silja Schenk, Zehra Nur Toreyin, Nazli Uckuyu, Omer Selim Unat, Eda Sen, Nikola Stenzel, Michael Kreuter, Nesrine Mogulkoc, Wim Wuyts, Liam Galvin, Steve Jones, Pippa Powell, Polina Starchenko, Jeanette Boyd, Natalia Liagka, Sabrina Bajwah, Allison Tong, Thomy Tonia, Valerie Vaccaro, Fabienne Dobbels
- PA3455 Trajectories of health-related quality of life (HRQL) in patients with idiopathic pulmonary fibrosis (IPF)**  
Amy Olson (Ridgefield, United States), Jamie L Todd, Laurie D Snyder, Peide Li, Megan L Neely
- PA3456 Utility of EXACT®, a patient-reported outcome instrument, for idiopathic pulmonary fibrosis-related cough**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Thomas Sciascia, Toby Maher, Philip L. Molyneaux
- PA3457 Cough monitoring and quality of life in patients with interstitial lung diseases measured by a smartphone application-based technique**  
Byoung Soo Kwon (Seoul, Republic of Korea), Dayeon Han, Catherine Song, Jiyoun Jung, Jong Sun Park
- PA3458 Characteristics of idiopathic pulmonary fibrosis -associated cough. A case-control study**  
Eeva Saari (Kuopio, Finland), Minna Mononen, Hannele Hasala, Anne Lätti, Johanna Kaulamo, Hanna Nurmi, Riitta Kaarteenaho, Minna Purokivi, Heikki O Koskela
- PA3460 Effect of BI 1015550, a preferential PDE4B inhibitor, on FEV1/FVC ratio in IPF**  
Vincent Cottin (Lyon, France), Arata Azuma, Toby M Maher, Claudia Valenzuela, Marlies S Wijsenbeek, Yi Liu, Susanne Stowasser, Donald F Zoz, Luca Richeldi
- PA3461 The extent of emphysema plays a role in morbidity-mortality in patients with CPFE and IPF**  
Filippo Gozzi (Modena, Italy), Jaume Bordas-Martinez, Naiara Santos-Erice, Guadalupe Bermudo-Peloché, Cristian Tebé-Cordomí, Marta Lopez-Sanchez, Stefania Cerri, Enrico Clini, Salud Santos-Pérez, Maria Molina-Molina, Vanesa Vicens-Zygmunt
- PA3462 Comparison of emphysematous COPD patients with or without Combined Pulmonary Fibrosis and Emphysema (CPFE)**  
Muzaffer Onur Turan (Izmir, Turkey), Sebnem Karasu, Ceyda Anar, Bunyamin Sertogullarindan
- PA3463 Win ratio approach to assessing the effect of nintedanib on a hierarchical composite endpoint in patients with progressive pulmonary fibrosis**  
Claudia Valenzuela (Madrid, Spain), Kevin R Flaherty, Yoshikazu Inoue, Dirk Koschel, Jin Woo Song, Corinna Miede, Michiel Oldenburg, Martin Kolb
- PA3464 Relevance of the systematic sleep study on idiopathic pulmonary fibrosis (IPF)**  
Jaume Bordas Martinez (barcelona, Spain), Neus Salord Oleo, Vanesa Vicens Zygmunt, Rosana Blavia Aloy, Sandra Pérez Ramos, Eliseo Prado Gala, María D. Calvo Sánchez, Ana Montes-Worboys, Guadalupe Bermudo Peloché, Salud Santos Pérez, Carmen Monasterio Ponsa\*, María María Molina Molina\* (\* Equal Contribution)
- PA3465 Impact of air pollution on survival in idiopathic pulmonary fibrosis according to the MUC5B polymorphism**  
Lucile Sese (Paris, France), Raphaël Borie, Caroline Kannengiesser, Vincent Cottin, Dominique Israel-Biet, Bruno Crestani, Jacques Cadranet, Cécile Chenivresse, Stéphanie Guillot-Dudoret, Dominique Valeyre, Isabella Annesi Maesano, Hilario Nunes

PS-18 in poster area

Session 349

16:00 - 17:30

Poster session: New tools for risk assessment in the interstitial lung disease setting

Disease(s) : [Interstitial lung diseases](#)

Method(s) : General respiratory patient care Imaging Pulmonary function testing Pulmonary rehabilitation Epidemiology Physiology

Tag(s) : Clinical

Chairs : Diego Castillo Villegas (Barcelona, Spain), Fabio Arimura (São Paulo (SP), Brazil)

- PA3466 PF-ILD and PPF criteria as predictors for mortality in RA-ILD**  
Phuong Phuong Diep (Oslo, Norway), Emily Langballe, Asad Chaudhary, Torhild Garen, Are Martin Holm, Henrik Mangseth, Øyvind Molberg, Anna-Maria Hoffmann-Vold, Michael T Durheim

- PA3467 RA-ILD – new insights into disease burden from an international patient survey**  
Michael Kreuter (Heidelberg, Germany), Katerina Antoniou, Jeroume Avouac, Elisabeth Bendstrup, Graham Brown(+), Ivan Castellvi, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieude, Liam Galvin, Klaus Geissler, Clive Green, Joseph Jacob, Steve Jones, Andreas Krause, Preston Long, Britta Maurer, Erika Mosor, Toby M Maher, Polina Pchelnikova, Jef Van Rompay, Nelleke Tak, Jeska De Vries-Bouwstra, Claudia Valenzuela, Marlies Wijsenbeek, Anna Maria Hoffmann-Vold

- PA3468 Screening for ILD in RA: a survey of 1132 patients with RA**  
Anna Maria Hoffmann-Vold (Oslo, Norway), Katerina Antoniou, Jerome Avouac, Elisabeth Bendstrup, Graham Brown, Ivan Castellvi, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieude, Liam Galvin, Joseph Jacobs, Steve Jones, Andreas Krause, Preston Long, Britta Krause, Erika Mosor, Toby M Maher, Polina Pchelnikova, Nelleke Tak, Jeska De Vries-Bouwstra, Claudia Valenzuela, Marlies Wijzenbeek, Michael Kreuter
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- PA3469 Interstitial lung disease in connective tissue disease: data from an Italian Multidisciplinary Unit**  
Alberto Bracciali (Prato, Italy), Sara Torracchi, Elisabetta Rosi, Matteo Drigo, Rubina Giulia Girolamo, Francesco Bonomi, Federico Lavorini, Serena Guiducci, Sara Tomassetti
- 
- PA3470 Clinical score composite of DLCO, mMRC, and 6-minute walking distance provides prognostic value in patients with fibrotic lung disease: A Prospective observational Study**  
Pin-Kuei Fu (Taichung, Taiwan), Yu-Wan Liao
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- PA3471 Risk factors for SSc-ILD progression using the new PPF guideline and INBUILD PF-ILD criteria**  
Oliver Distler (Zurich, Switzerland), Anna-Maria Hoffmann-Vold, Liubov Petelyska, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkekjær, Cathrine Brunborg, Cosmino Bruni, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durham, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carima Mihai, Øyvind Molberg
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- PA3472 ILD associated with systemic sclerosis: predisposing factors for progressive fibrosing ILD**  
Sheila Ramjug (Altrincham, United Kingdom), Christopher Markus, Jennifer Helm, Hayley Fox, Muditha Samaranyaka, Michael Hughes
- 
- PA3473 Real world incidence & prevalence of PF-ILD in a systemic sclerosis cohort**  
Mahin Ahmad (Heswall, United Kingdom), Rosalind Benson, Theresa Barnes, Madhusudan Paravasthu, Freddy Frost, Veronica Yioe, Lisa Spencer
- 
- PA3474 Factors prognostic of rapid progression of systemic sclerosis-associated interstitial lung disease (SSc-ILD)**  
Oliver Distler (Zurich, Switzerland), Jérôme Avouac, Anna-Maria Hoffmann-Vold, Vanessa Smith, Gerrit Toenges, Margarida Alves, Masataka Kuwana
- 
- PA3475 The Feasibility of Home Spirometry and Oximetry Monitoring In Patients With Interstitial Lung Disease**  
Wan Lin Ng (Dublin, Ireland), Anja Schweikert, Rebecca Borton, Donough Howard, Laura Durcan, Killian Hurley
- 
- PA3476 ILD progression varies in subtypes of connective tissue diseases**  
Phuong Phuong Diep (Oslo, Norway), Emily Langballe, Cosimo Bruni, Håvard Fretheim, Helena Andersson, Silje Reiser, Ragnar Gunnarsson, Øyvind Palm, Torhild Garen, Øyvind Midtvedt, Øyvind Molberg, Trond Mogens Aaløkken, Michael Thomas Durham, Oliver Distler, Anna-Maria Hoffmann-Vold
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- PA3477 Decline in BMI is a predictor of functional progression in pulmonary fibrosis associated with connective tissue disease**  
Alexandra Nagy (Budapest, Hungary), Bernadett Mák, Veronika Müller
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- PA3478 Living with chronic cough: experiences, burden and management in ILD – a qualitative Study**  
Shirley Quach (Concord, Canada), Matisse Lebouedec, Renata Mancopes, Dina Brooks, Ana Oliveira
- 
- PA3479 Argentine registry of autoimmune interstitial lung disease: EPIMAR 2 baseline data**  
Juan Ignacio Enghelmayer (Ciudad Autónoma Buenos Aires, Argentina), Silvia Quadrelli, Norma Naval, Patricia Aruj, Viviana Moyano, Adrian Gaser, Maria Laura Alberti, Santiago Auteri, Soledad Altube, Javier Abdala, Brenda Varela, Maria Otaola, Lilian Caponi, Gabriela Tabaj, Luciana Molinari, Federico Zenon, Eugenia Perticone, Joaquin Maritano, Marcela Usandivaras, Fabian Caro, Matias Castro, Beatriz Gil, Fernando Piumatti, Javier Sebastiani, Diana Lancellotti, Federico Campins, Diego Goffredo, Antonella Gamarra, Gabriela Manonelles, Jorge Garcia Gonzalez, German Arce, Raul Lisanti, Silvia Del Valle Escotorin, Paula Gonzalo, Francisco Paulin, Florencia Vivero
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- PA3480 Functional improvement at one year in fibrotic interstitial lung diseases (ILD) – impact of baseline biomarkers and anti-inflammatory therapies**  
Guangyu Shao (Linz, Austria), Paul Thöne, Bernd Lamprecht, Bernhard Kaiser, David Lang
- 
- PA3481 Malaysian real-world data to describe progressive pulmonary fibrosis (PPF) in a clinical setting**  
Syazatul Syakirin Sirol Aflah (Kuala Lumpur, Malaysia), Noraishah Sulaiman, Mohd Syahin Shahira Lilah, Ming Yi Khoo, Wooi Leong Leow
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- PA3482 The natural history of interstitial pneumonia with autoimmune features compared to connective tissue disease-associated interstitial lung disease – prospective single-centre study preliminary results**  
Ewa Miadlikowska (Łódź, Poland), Joanna Miłkowska-Dymanowska, Adam Jerzy Biały, Wojciech Jerzy Piotrowski
- 
- PA3483 Late Breaking Abstract - AI-powered decision support helps pulmonologists to diagnose ILD more accurately.**  
Julie Maes (Leuven, Belgium), Paul Desbordes, Karolien Van Orshoven, Maarten De Vos, Markus Steinwender, Erich Helfenstein, Corina Marginean, Nicolas Henzi, Peter Cerkl, Patrick Heeb, Stephan Keusch, Gianluca Calderari, Paul Boetticher, Bernhard Baumgartner, Daiana Stolz, Marioara Simon, Daniela Gompelmann, Wim Janssens, Marko Topalovic



**PA3484** **Late Breaking Abstract - Characterization of high responders in the phase 2a IPF AIR trial of C21 using baseline quantitative CT image analysis**  
Elliott Bussell (Cambridge, United Kingdom), Rohit Batta, Elin Rosendahl, Muhunthan Thillai, Alessandro Ruggiero, Thomas Bengtsson, Cecilia Ganslandt, Philip Molyneaux, Toby Maher

**PA3485** **Late Breaking Abstract - Inhaled pirfenidone (AP01) forced vital capacity (FVC) data from the ATLAS study vs placebo from 3 historical idiopathic pulmonary fibrosis (IPF) randomised controlled trials (RCTs)**  
Nazia Chaudhuri (Limavady, United Kingdom), Lisa Lancaster, Scott Palmer, Peter George, Felix Woodhead, Lyn Baranowski, Deepthi Nair, Andrey Pavlov, Colin Reisner

PS-19 in poster area

Session 350

16:00 - 17:30

Poster session: Pulmonary hypertension in lung disease and hypoxia

Disease(s) : [Interstitial lung diseases](#) [Pulmonary vascular diseases](#) [Airway diseases](#)

Method(s) : Epidemiology General respiratory patient care Imaging Cell and molecular biology Transplantation Respiratory intensive care Public health

Tag(s) : Clinical

Chairs : Deimante Hoppenot (Kaunas, Lithuania), Da-Hee Park (Hannover, Germany)

**PA3486** **PH-ILD management and unmet need in Europe: a clinician survey**  
Luke Howard (London, United Kingdom), Stefano Ghio, Federica Meloni, John Cannon, Hilario Nunes, Jose Cifrian-Martinez, Raquel Rojo, Andreas Günther, David Montani, Karl Pehk, Miriam Delgado

**PA3487** **The Effect of Subcutaneous Treprostinil on Pulmonary Hypertension Associated with Interstitial Lung Disease**  
Roela Sadushi-Kolici (Wien, Austria), Inbal Shafran, Helmut Prosch, Nika Skoro-Sajer, Christin Gerges, Irene Lang

**PA3488** **Improved survival after treatment with pulmonary vasodilator therapies in patients with sarcoidosis-associated pulmonary hypertension: results from an international registry**  
Laura Price (London, United Kingdom), Vasilis Kouranos, Robert Baughman, Chloe Bloom, Oksan Shlobin, Steven Nathan, Rohit Gupta, Colm McCabe, Chinthaka Samaranayake, Thomas Mason, Elisabetta Renzoni, Athol Wells, John Wort

**PA3489** **Safety and tolerability of inhaled treprostinil with phosphodiesterase-5 inhibitors in patients with pulmonary hypertension due to interstitial lung disease**  
David Zisman (Weston, United States), Hilary Dubrock, Christopher King, Sheila Weaver, Steven Nathan, Franck Rahaghi, Hyoshin Kim, Youlan Rao, Eric Shen, Aaron Waxman

**PA3490** **Artificial Intelligence and Computed Tomography to improve quantification and prognostication of lung disease in precapillary pulmonary hypertension**  
Krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Liam Delany, Samer Alabed, Smitha Rajaram, Catherine Hill, Christopher Johns, Alex Rothman, Roger Thompson, Jim Wild, Robin Condliffe, David Kiely, Andrew Swift

**PA3491** **Reduced pulmonary vascular density in severe pulmonary hypertension associated with chronic lung disease**  
Agustin Roberto Garcia (BARCELONA, Spain), Iván Vollmer Torrubiano, Isabel Blanco, Ruben San José Estepar, Diego Andrés Rodríguez Chiaradia, Clara Martín Ontiyuelo, Manuel Lopez Meseguer, Pietro Nardelli, Fernanda Hernandez Gonzales, Jesus Ribas, Adelaida Bosacoma Armora, Xavier Pomares Amigo, Salud Santos Perez, Maria Molina Molina, Jacobo Sellares Torres, Farbod N Rahaghi, Raul San Jose Estepar, Joan Albert Barberà

**PA3492** **Predicting Pulmonary Pharmacokinetics of Inhaled Liposomal Treprostinil (L606) and Treprostinil Solution in Healthy Adult**  
Pei Kan (Taipei, Taiwan), Ko-Jie Chen

**PA3493** **PH-ILD patient characteristics and burden of disease in Europe: a clinician survey**  
David Montani (Le Kremlin-Bicêtre, France), Stefano Ghio, Federica Meloni, John Cannon, Hilario Nunes, Jose Cifrian-Martinez, Raquel Rojo, Andreas Günther, Luke Howard, Karl Pehk, Gabriela Jeanneret

**PA3494** **Artificial intelligence to detect pulmonary hypertension in idiopathic pulmonary fibrosis: Study design**  
Laura Price (London, United Kingdom), Alexandra Arvanitaki, Gerhard Paul Diller, Bhashkar Mukherjee, Alexandra Lawrence, Vasilis Kouranos, Thomas Semple, Wei Li, Natali Chung, Phillip Marino, Surinder Birring, Colm McCabe, Michael Gatzoulis, John Wort

**PA3495** **Use of pulmonary vasodilator therapy in anti-synthetase syndrome-associated pulmonary hypertension**  
Thomas Mason (London, United Kingdom), Chinthaka Samaranayake, Colm McCabe, Kostas Dimopoulos, Vasilis Kouranos, John Wort, Laura Price

**PA3496** **Multi-institutional Development and External Validation of Nomograms for the Prediction of Diagnosis and Survival in COPD with Severe Pulmonary Hypertension**  
Yuqin Chen (Guangzhou, China), Dansha Zhou, Chi Hou, Jian Wang

- PA3497** **CircPMS1 promotes proliferation of pulmonary artery smooth muscle cells, pulmonary microvascular endothelial cells, and pericytes under hypoxia**  
Xiaoyi Hu (Shanghai, China), Shang Wang, Hui Zhao, Yaqin Wei, Yuxia Huang, Rong Jiang, Jinming Liu, Ping Yuan
- PA3498** **Pulmonary hypertension in patients with Progressive Fibrosing Interstitial Lung disease(PF-ILD)referred for Lung transplantation:Retrospective study from India.**  
Manjunath M N (Hyderabad, India), Vijil Rahulan, Moiz Lalani, Owais Tisekar, Samuel Priyaranjan, Prabhath Dutta, Sonali Arora, Sandeep Attavar
- PA3499** **Prediction of survival in patients with pulmonary hypertension associated with interstitial lung disease treated with pulmonary vasodilators**  
Jun Fukihara (Seto, Japan), Reoto Takei, Hajime Sasano, Yasuhiko Yamano, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh
- PA3500** **Effect of Targeted Pulmonary Arterial Hypertension Therapy on Arterial Oxygenation in Patients With Pulmonary Hypertension Associated With Lung Disease: A Systematic Review and Meta-analysis**  
Rodrigo Torres Castro (Barcelona, Spain), Isabel Blanco, Lucilla Piccari, Agustin Roberto García, Clara Martin Ontiyuelo, Elena Gimeno Santos, Ana Ramírez, Anna Sardine, Joan Albert Barberà
- PA3501** **An open-label, pharmacodynamic trial investigating vascular effects of the angiotensin II type 2 receptor (AT2R) agonist (ATRAG) C21**  
Rohit Batta (Maidenhead, United Kingdom), Cecilia Ganslandt, Erik Rein-Hedin, Folke Sjöberg, Göran Tornling, Thomas Bengtsson, Kamilla Overbeck, Elin Rosendahl, Barbara Bjerring, Johan Raud, Carl-Johan Dalsgaard
- PA3502** **Severity of pulmonary hypertension in lung disease: impact of the 2022 guidelines on the REHAR registry population**  
Diego Rodríguez Chiaradia (Barcelona, Spain), Lucilla Piccari, Marta Arjona, Virginia Pérez-González, Isabel Blanco, Gregorio Pérez-Peñate, Juan Antonio Domingo, Roberto Del Pozo, Ernest Sala, Raquel López, Xavier Pomares, Amaya Martínez, Cristina Sabater, Alberto García, Agueda Aурtenetxe, Leyre Chasco, Salud Santos, Andrés Tenes, Maria Asunción Nieto, Luis Jara-Palomares, Diego Rodríguez
- PA3503** **Pulmonary Hypertension International Survey of Health Impacts (PHISH): a global patient questionnaire**  
Joseph Newman (Cambridge, United Kingdom), Isla Sanderman, Millicent Stone, Gergely Meszaros, Gerald Fischer, Joanna Pepke-Zaba, . Pulmonary Vascular Research Institute: Patient Engagement And Empowerment Working Group
- PA3504** **What role does the NLRP3 Inflammasome play in Systemic Sclerosis-Associated Pulmonary Arterial Hypertension (SScPAH)?**  
Jennifer Rossdale (Bristol, United Kingdom), Sergey Smirnov, Victoria Flower, Raveen Kandan, Kevin Carson, Oliver Watkinson, Daniel Augustine, John Graby, Sarah Skeoch, Gerry Coghlan, Rob Mackenzie Ross, John Pauling, Amanda Mackenzie, Jay Suntharalingam
- PA3505** **Correlations between lung injury and peripheral vascular manifestations in patients with systemic sclerosis: a preliminary study**  
Barbara Ruaro (Trieste, Italy), Paola Confalonieri, Riccardo Pozzan, Stefano Tavano, Chiara Bozzi, Selene Lerda, Marco Confalonieri, Francesco Salton

PS-2 in poster area

Session 351

16:00 - 17:30

Poster session: COVID-19, infectious and interstitial pulmonary diseases from a primary care perspective

**Disease(s)** : [Interstitial lung diseases](#) [Airway diseases](#) [Respiratory critical care](#) [Pulmonary vascular diseases](#) [Thoracic oncology](#) | [Sleep and breathing disorders](#)

**Method(s)** : Epidemiology General respiratory patient care Imaging Physiology Pulmonary function testing Public health Respiratory intensive care Pulmonary rehabilitation

**Tag(s)** : Clinical

**Chairs** : Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia), Alan Kaplan (Stouffville (ON), Canada)

- PA3506** **RELATIONSHIP BETWEEN EARLY MENARCHE AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN**  
Ingrid Guerra Azevedo (São paulo, Brazil), Maria Do Socorro Luna Cruz, Saionara Maria Aires Da Câmara, Álvaro Campos Cavalcanti Maciel, Elizabel De S. Ramalho Viana
- PA3507** **RELATIONSHIP BETWEEN MATERNAL AGE OF FIRST BIRTH AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN**  
Ingrid Guerra Azevedo (São paulo, Brazil), Saionara Maria Aires Aires Da Câmara, Maria Do Socorro Luna Cruz, Mayra Quintana Villarrol, Álvaro Campos Cavalcanti Maciel, Elizabel De S. Ramalho Viana
- PA3508** **AI models for respiratory diseases from spirometry alone: validation based on UK Biobank**  
Ahmed Elmahy (Leuven, Belgium), Julie Maes, Paul Desbordes, Maarten De Vos, Marko Topalovic

- PA3509** **Prevalence of interstitial lung disease (ILD) in symptomatic individuals with normal spirometry in primary care**  
Suhani Patel (London, United Kingdom), Anthony Sunjaya, Ethaar El-Emir, Jennifer Harvey, Elizabeth Fleming, Ingram Karen, George Edwards, Timothy Jenkins, Gillian Doe, Samantha Kon, Karl Sylvester, Toby Maher, Philip Molyneaux, William Man
- PA3510** **Service evaluation of a pilot healthcare scientist led OSA clinic in primary care**  
Rhodri Curtis (Cardiff, United Kingdom), Joleta Hooper-Lee, Alex Perkins
- PA3511** **Novel screening protocol for early detection of lung involvement in sero- and ACPA-positive rheumatoid arthritis**  
Frank Reichenberger (Munich, Germany), Martin Welcker, Martin Hoffmann, Werner Von Wulffen, Florian Popp
- PA3512** **BETA-LACTAMASE ACTIVITY IS A BIOMARKER FOR THE PREDICTION OF THE EFFICACY OF ANTIMICROBIAL THERAPY.**  
Farkhod Mukhsinov (Tashkent, Uzbekistan), Irina Liverko
- PA3513** **Pulmonary embolism during tuberculosis: clinical features and outcomes**  
Tarak Cherif (Ariana, Tunisia), Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Soumaya Ben Saad, Fatma Tritar
- PA3514** **COVID-19 pandemic: challenges, facts and risks of antibiotic resistance**  
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova
- PA3515** **Post-COVID consultation at Winterthur Cantonal Hospital - follow-up over six months**  
Markus Hofer (Zürich, Switzerland), Swantje Beyer, Sarah Egli, Anne-Kathrin Rauh, Juergen Hetzel, Irina Nast, Markus Wirz
- PA3516** **Impact of post-covid-19 condition on health and activities of daily living: a population-based cohort study**  
Maarten Van Herck (Horn, Netherlands), Demi M E Pagen, Céline J A Van Bilsen, Stephanie Brinkhues, Kevin Konings, Casper D J Den Heijer, Suhreta Mujakovic, Henriëtte L G Ter Waarbeek, Chris Burtin, Daisy J A Jansen, Christian J P A Hoebe, Martijn A Spruit, Nicole H T M Dukers-Muijers
- PA3517** **Prediction of the development of traction bronchiectasis and parenchymal bands in patients discharged after treatment for COVID-19**  
Rebecca Saray Marchesini Stival (Rio Grande (RS), Brazil), Ariele Haagsma, Rafaella Bernardelli, Bruno Pedrazzani, Karin Storrer, Nayanne Oliveira, Luisa Abbott, Maria Leticia Tebet, Maria Fernanda Vieira, Cristina Baena
- PA3518** **Long Covid (LC) is still unrecognized in Greece. A barrier to adequate treatment.**  
Paraskevi Katsaounou (Athens, Greece), Martha-Spyridoula Katsarou, Archontoula Antonoglou, Antonis Kontaxakis, Ioanna Kotsamidi, Vassiliki Vakouftsi, Maria Saroglou, Helen Iasonidou
- PA3519** **Patient care in the last days of life – Prescription patterns in a Pneumology Ward**  
Pedro Viegas (Vila Nova de Gaia, Portugal), Leonor Roseta, Eloisa Silva, Ana Cristina Ferreira, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro
- PA3520** **Symptom management in the last days of life in a Respiratory Ward**  
Pedro Viegas (Vila Nova de Gaia, Portugal), Leonor Roseta, Eloisa Silva, Ana Cristina Ferreira, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro
- PA3521** **Possible changes in diagnoses before and during Covid-19 with focus on the respiratory tract**  
Pia Lindberg (Tyresö, Sweden), Seika Lee, Gunnar Ljunggren, Åsa Wheelock, Axel Carlsson
- PA3522** **Development of patient resources for chronic breathlessness: Needs analysis**  
Christine Jenkins (McMahons Point (NSW), Australia), Anthony Paulo Sunjaya, Allison Martin, Clare Arnott, Guy Marks
- PA3523** **Predictors of successful separation from high flow nasal cannula oxygen therapy in severe COVID-19 patients admitted in a tertiary hospital in Bacolod City, Philippines**  
Rencel Beljera (Bacolod City, Philippines), Rock Jr. Camiña, Paolo Hilado

PS-20 in poster area

Session 352

16:00 - 17:30

Poster session: Imaging studies in COVID pneumonia and other lung diseases

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#) [Respiratory critical care](#) [Thoracic oncology](#) [Pulmonary vascular diseases](#)Method(s) : Imaging Physiology Pulmonary function testing Respiratory intensive care Endoscopy and interventional pulmonology  
Epidemiology Public health Surgery

Tag(s) : Clinical

Chairs : [Ádám Domonkos Tárnoki](#) (Budapest, Hungary), [Rozemarijn Vliegenthart](#) (Groningen, Netherlands)

- PA3525** **Comparison of Conventional Clinical and Laboratory Findings with 18F-FDG PET/CT and 68Ga Citrate PET/CT in terms of Diagnostic Utility and Disease Activity Among Sarcoidosis Patients**  
bahar kubat (İSTANBUL, Turkey), Mehmet Cüneyt Tetikkurt, Haluk Burçak Sayman

- PA3526 CT imaging differences between different Covid-19 strains**  
Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic
- 
- PA3527 CT findings as prediction of long covid**  
Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic
- 
- PA3528 Quantitative CT lung alterations and lung function in COVID-19 associated ARDS: 1-year follow-up**  
Riccardo Ripamonti (Vimercate, Italy), Bianca Corrà, Silvia Pagani, Stefania Raschi, Pierfranco Usai, Cristiano Bonacina, Roberta Cattaneo, Monica Bernareggi, Chiara Melacini, Serena Bencini, Martina Piluso, Francesca D'Arcangelo, Luca Parachini, Chiara Milano, Roberta Ciceri, Angela Brancaforte, Marcello Intotero, Paolo Scarpazza
- 
- PA3529 Persisting radiological abnormalities following covid-19 are common and correlate with impaired Quality of Life**  
Hannah Bayes (Glasgow, United Kingdom), Robert Sykes, Andrew J Morrow, Kenneth Mangion, Alex Mcconnachie, Alasdair Mcintosh, Giles Roditi, Claire Rooney, Katherine Scott, David Stobo, Colin Berry, Colin Church
- 
- PA3530 Differences in CT presentation of covid 19 between vaccinated and unvaccinated patients**  
Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic
- 
- PA3531 Computed tomography (CT) characteristics of vanishing lung syndrome in patients after severe COVID-19 pneumonia**  
Svitlana Opimakh (Kyiv, Ukraine), Yurii Feshchenko, Viktoria Ignatieva, Mykola Lynnyk, Galyna Gumeniuk, Mykola Gumeniuk, Maryna Polianska, Nataliia Musienko
- 
- PA3532 Multislice CT in the visualisation of thromboembolism of small branches of pulmonary arteries in COVID-19**  
Elmira Chuvakova (Astana, Kazakhstan), Lina Zaripova, Timur Sarsengaliyev, Manana Peradze, Abay Baigenzhin
- 
- PA3533 Incidentaloma in covid 19**  
Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković
- 
- PA3534 Medical management strategies in epidemic**  
Dušan Ivković (Niš, Republic of Serbia), Stevan Ivković, Aleksandar Ivković
- 
- PA3535 CT findings in asymptomatic patients with covid 19**  
Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković
- 
- PA3536 Post COVID-19 HRCT Thorax sequelae, a one year follow up study**  
Rajesh Agrawal (Bareilly, India), Rajat Agarwal, Javied Ahmad Malik
- 
- PA3537 Thromboembolic complications during SARS-CoV-2 infection in the elderly**  
Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub Fehri
- 
- PA3538 Pneumonectomy in the surgery of pulmonary Hydatid cysts: A therapeutic option that is sometimes unavoidable**  
Sarrah Zairi (Tunis, Tunisia), Kaouther Ben Amara, Imen Bouassida, wifek SAIDANI, Hazem Zribi, Mehdi Abdennadher, Imen Sahnoun, Adel Marghli
- 
- PA3539 Radiation exposure in primary spontaneous pneumothorax patients.**  
Bart P.C. Hoppe (Leiden, Netherlands), Gijs C.M. Ven, Tijmen, J.W.T. Van De Wel, Rajen, S.R.S. Ramai, Pieter E. Postmus
- 
- PA3540 Changes in lung volumes during bronchoalveolar lavage according to bedside position. Case Series**  
Ignacio Fernández Ceballos (Buenos Aires, Argentina), Julieta Gonzalez Anaya, Juan Martín Nuñez Silveira, Emilio Steinberg, Leiniker Navarro Rey, Gabriel Elias Vega, Ivan Huespe, Indalecio Carboni Bisso, Marcos Las Heras, Rodriogo Cornejo
- 
- PA3541 Severity and radiological score in nasal polyposis associated with asthma : comparison between asthmatic and non-asthmatic patients**  
Rim Hammami (Sfax, Tunisia), Souha Kallel, Mohamed Amin Chaabouni, Omar Walha, Najla Bahloul, Sirine Ayedi, Elleuch Ahmed Dhiaa, Sami Kammoun, Ilhem Charfeddine
- 
- PA3542 Computerized tomography evaluation of pleural effusion before medical thoracoscopy**  
Filip Popović (Zagreb, Croatia), Marta Koršić, Fran Seiwert, Sonja Badovinac, Lela Bitar, Marko Jakopović, Miroslav Samaržija
- 
- PA3543 Late Breaking Abstract - CT-based diaphragm analysis to evaluate the diaphragm configuration with increasing COPD severity**  
Jens Thomas Bakker (GRONINGEN, Netherlands), Jorine E. Hartman, Karin Klooster, David A. Lynch, Marieke C. Van Der Molen, Jean-Paul Charbonnier, Michail Tsiaousis, Rozemarijn Vliegenthart, Dirk-Jan Slebos

**PA3544 Late Breaking Abstract - Deep learning-based outcome prediction in pulmonary fibrosis using synthetic HRCT**  
Simon Walsh (London, United Kingdom), Xiaodan Xing, John Mackintosh, Lucio Calandriello, Yingying Fang, Shiyi Wang, Sheng Zhang, Yang Nan, Mario Silva, Athol Wells, Guang Yang, Tamera Corte

## PS-3 in poster area

## Session 353

16:00 - 17:30

## Poster session: Respiratory mechanics, structure-function, and modelling studies

Disease(s) : Respiratory critical care Airway diseases Interstitial lung diseases Pulmonary vascular diseases

Method(s) : Physiology Pulmonary function testing Pulmonary rehabilitation Respiratory intensive care Public health Imaging  
General respiratory patient care

Tag(s) : Translational

Chairs : Raffaele Dellaca (Milano (MI), Italy), Katarzyna Górska (Warszawa, Poland)

**PA3545 Improved gas exchange during high-frequency percussive ventilation: comparison of intratracheal and extrathoracic oscillations**  
Ferenc Peták (Szeged, Hungary), Walid Habre, John Diaper, Roberta Südy, Davide Bizzotto, Raffaele Dellacà, Álmos Schranc

**PA3546 Effects of positive and negative end-expiratory pressures on gas exchange and haemodynamics during flow-controlled ventilation: an experimental study**  
Álmos Schranc (Geneva, Switzerland), John Diaper, Roberta Südy, Walid Habre, Gergely Albu, Philippe Bijlenga, Hervé Quintard

**PA3547 Ventilation-perfusion matching assessed by volumetric capnography: differences between positive- and negative-pressure mechanical ventilation in rats**  
Bence Ballók (Szeged, Hungary), Gergely H. Fodor, Fruzsina Kun-Szabó, Ibolya Tóth, Petra Somogyi, József Tolnai, Barna Babik, Ferenc Peták

**PA3548 Viscoelastic behavior of sheep respiratory system during mechanical ventilation**  
Camilla Ziliani (Milano (MI), Italy), Fabio Acocella, Giuliano Ravasio, Roberto Galli, Anna Kyriakoudi, Matteo Pecchiari

**PA3549 Establishing reference values for the end-expiratory lung volume (EELV) in a common model of respiratory research**  
Gergely H. Fodor (Szeged, Hungary), Ferenc Rárosi, Bence Ballók, Fruzsina Kun-Szabó, Ibolya Tóth, Petra Somogyi, Ferenc Peták

**PA3551 Evaluation of the spatial spirometry indicators using electrical impedance tomography**  
Wang Chun Kwok (Hong Kong, Hong Kong), Fedi Zouari, Pak To Cheung, Adrien Touboul, Venice Sin, Eddie C. Wong, Iris Y. Zhou, Terence Chi Chun Tam, Russell W. Chan

**PA3552 Distribution of regional lung ventilation in upright healthy subjects determined by electrical impedance tomography**  
Inez Frerichs (Kiel, Germany), Barbara Vogt, Kathinka Deuss, Victoria Hennig, Claas Strodthoff

**PA3554 Computational fluid dynamic analysis of the effect of airflow vibration in nasal cavity**  
MASATO MIWA (TOKYO, Japan), Soichiro Fujimura, Nagisa Yanagi, Masahiro Nakamura, Fumihiko Matsumoto, Makoto Yamamoto

**PA3555 Effects of breathing frequency on the capnogram shape factors in healthy subjects**  
József Tolnai (Szeged, Hungary), Gergely Fodor H., Ibolya Tóth, Petra Somogyi, Bence Ballók, Barna Babik, Ferenc Peták

**PA3556 Understanding the determinants of CO gas-transfer test through a computational lung model**  
Christos Nikolaou (London, United Kingdom), Wenjia Bai, Brody H Foy, Salman Siddiqui

**PA3557 Examining the relationship between pulmonary vascular structure and function in chronic obstructive pulmonary disease: a cross-sectional analysis.**  
Sophie Collins (EDMONTON, Canada), Miranda Kirby, Joshua Perka, Andrew Weinkauff, Gaurav Veer Singh, Stephanie Thompson, Benjamin M. Smith, Sean Van Diepen, Michael Stickland

**PA3558 Association of Forced Oscillation Technique measurements with respiratory system compliance and resistance in a 2-compartment physical model of the respiratory system**  
Laurent Plantier (Tours Cedex 9, France), Valentin Cerfeuillet, Laurine Allimonnier, Sandrine Le Guellec

**PA3559 Use of oscillometry in clinical practice**  
Elisabeth Edvardsen (Oslo, Norway), Ingvild Bjellmo Johnsen

**PA3560 The Utility of Forced Oscillation Technique in the Assessment of Obstructive Lung Disease among Adult Patients**  
Nikko John Dalisay (Angeles City, Philippines), Bernice Ong-Dela Cruz, Ma. Encarnita Limpin

**PA3561** **Airspace diameter map - a quantitative measurement of all pulmonary airspace to characterize structural lung diseases**  
Sanja Blaskovic (Bern, Switzerland), Pinelopi Anagnostopoulou, Elena Borisova, Dominik Schittny, Yves Donati, David Haberthür, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampanoni, Constance Barazzone, Johannes C. Schittny

**PA3562** **Diabetes Enhances Impairments in Pulmonary Function and Exercise Capacity in Patients with Non-Alcoholic Steatohepatitis (NASH)**  
Chul-Ho Kim (Rochester, United States), Kade Fritz, Jack Lavey, Bruce Johnson, Kymberly Watt, Alexander Niven, Jinkyung Cho

**PA3563** **Does the level of obesity impact on the respiratory function in adults?**  
Antonella LoMauro (Milano (MI), Italy), Gabriella Tringali, Franco Codecasa, Alessandro Sartorio, Andrea Aliverti

## PS-4 in poster area

## Session 354

16:00 - 17:30

## Poster session: Intensive care unit settings and acute respiratory failure

Disease(s) : Respiratory critical care Thoracic oncology Airway diseases

Method(s) : General respiratory patient care Respiratory intensive care Epidemiology Public health Cell and molecular biology Palliative care Pulmonary rehabilitation Surgery

Tag(s) : Clinical

Chairs : Christoph Fisser (Regensburg, Germany), Stefano Nava (Bologna (BO), Italy)

**PA3565** **Post-intubation cardiac arrest events in patients of acute respiratory failure: compare neuromuscular blockers (NMBs) for rapid sequence intubation (RSI)**  
Yi-Ting Chen

**PA3566** **The clinical score composite of six factors can guide DNR decisions in elderly patients with severe community acquired pneumonia: a retrospective multicenter cohort study.**  
Yu-Cheng Wu (Taichung City, Taiwan), Pin-Kuei Fu

**PA3567** **Decrease tissue oxygen saturation influenced acute skeletal muscle weakness in patients with critically ill patients**  
Ryuji Sugiyama (Osakasayama, Japan), Shinichi Arizono, Yuta Kimoto, Masashi Shiraishi, Kazuyuki Tabira, Yuichi Tawara, Tamotsu Kimura, Yuji Higashimoto, Hironori Shigeoka

**PA3568** **Risk factors associated with Hantavirus Cardiopulmonary Syndrome in Chile.**  
Ricardo Fritz (Santiago, Chile), Francisco Arancibia, Ruvistay Gutiérrez-Arias, Claudia Sepulveda, Carlos Guerra, Cesar Paulsen

**PA3569** **Risk factors for asthma related intensive care unit (ICU) admissions: Analysis of 1.4 million patients in England**  
Nikita Simms-Williams (Birmingham, United Kingdom), Prasad Nagakumar, Rasiah Thayakaran, Nicola Adderley, Krishnarajah Nirantharakumar, Adel Mansur, Shamil Haroon

**PA3570** **Development and validation of deep-learning-based sepsis and septic shock early prediction system in real-world ICU data**  
woo hyun cho (Yongsan, Republic of Korea), Taehwa Kim, Hye Ju Yeo, Yunwon Tae, Kyungjae Cho, Dongjoon Yoo, Yeha Lee

**PA3571** **Expansion of anaerobic bacteria in the lung microbiome of critically ill patients is associated with altered immune landscape and worsened outcomes.**  
Jared Schlechte, Amanda Zucoloto, Ian-Ling Yu, Christopher Doig, Mary Dunbar, Christina Thornton, Braedon McDonald

**PA3572** **Outcomes of lung cancer patients admitted to a medical intensive care unit (ICU)**  
Glenn Yong (Singapore, Singapore), John Abisheganaden, Sennen Lew

**PA3573** **A prospective study of circulating omentin-1 in critically ill patients with sepsis**  
Irene Karampela (Athens, Greece), Natalia Vallianou, Gerasimos-Socrates Christodoulatos, Dimitrios Tsilingiris, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga

**PA3574** **Thirty-one-month outcomes of utilizing business intelligence tool for data-driven decision support to enhance compliance with lung protective strategy**  
Yu-Chu Kuo (, Taiwan), How-Yang Tseng, Chieh-Lung Chen, Wei-Cheng Chen

**PA3575** **Modeling using risk factors for delirium in elderly patients admitted to an intensive care unit.**  
SUNG WON CHANG (Seoul, Republic of Korea), Kyung Soo Chung, Chi Rayng Chung, Jong Min Lee, Je Hyeong Kim, Jae Jeong Shim, Young Seok Lee

**PA3576** **Impact of socioeconomic factors on pneumological emergency response**  
Klaas F. Franzen (Luebeck, Germany), Holger Maurer, Charlotte Söling, Daniel Drömann

- PA3577 Prognostic value of serum omentin-1 in critically ill patients with sepsis**  
Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Natalia Vallianou, Dimitrios Tsilingiris, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga
- PA3578 Association of breathing reserve with post-operative pulmonary complications in an elective surgical cohort**  
Inbar Aberman (Wrexham, United Kingdom), Matthew Knight, Manisha Shah, Rahuldeb Sarkar
- PA3579 Association between early blood urea nitrogen-to-albumin ratio and one-year post-hospital mortality in critically ill surgical patients: a propensity score-matched study**  
Pei-Ya Liao (Taichung, Taiwan), Chao Wen-Cheng
- PA3580 Prediction of healthcare-associated infection using Quantiferon monitoring in pneumonia patients**  
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Taehwa Kim
- PA3581 Risk factors for long-term invasive mechanical ventilation: a retrospective longitudinal study using German health claims data**  
Franziska Trudzinski (Heiderberg, Germany), Julia D Michels, Benjamin Neetz, Jan Meis, Michael Müller, Axel Kempa, Claus Neurohr, Armin Schneider, Felix Herth, Joachim Szecsenyi, Elena Biehler, Thomas Fleischhauer, Michael Wensing, Simone Britsch, Janina Schubert-Haack, Thomas Grobe, Timm Frerk
- PA3582 COPD Care Bundle in Emergency Department Observation Unit Reduces Emergency Department Revisits**  
Pierpaolo Maietta (mercogliano (AV), Italy)
- PA3583 ICU experience of the Respiratory Syncytial Virus Season after 2 years into the COVID-19 pandemic in a single institution**  
Lurisha Coopposamy (Pretoria, South Africa), Ameena Goga

## PS-5 in poster area

## Session 355

16:00 - 17:30

## Poster session: From basic to translational sleep breathing disorders

Disease(s) : **Sleep and breathing disorders** **Airway diseases**

Method(s) : General respiratory patient care Imaging Public health Cell and molecular biology Physiology Epidemiology Pulmonary function testing

Tag(s) : Translational

Chairs : Stefania Redolfi (Cagliari, Italy), Ludger Grote (Göteborg, Sweden)

- PA3584 Intermittent hypoxia mediates cancer development and progression through HIF-1 and miRNA regulation**  
GIORGIA MORIONDO (Barletta, Italy), Piera Soccio, Mélanie Minoves, Giulia Scioscia, Maria Pia Foschino Barbaro, Jean-Louis Pépin, Anne Briançon-Marjollet, Donato Lacedonia
- PA3585 Sleep apnoea indices associated with markers of inflammation and cardiovascular disease -A proteomic study in the MUSTACHE-cohort**  
Mirjam Elisa Ljunggren (Uppsala, Sweden), Xingwu Zhou, Jenny Theorell-Haglöw, Christer Jansson, Karl Franklin, Össur Emilsson, Eva Lindberg
- PA3586 Association of obstructive sleep apnea hypopnea syndrome with brain iron deposition**  
Sotirios Zarogiannis (Larisa, Greece), Dimitrios Raptis, Ioannis Lampropoulos, Olga Sinani, Dimitra Siachpazidou, Lamprini Pouliou, Georgia Rapti, Chrysoula Marogianni, Eftychia Kapsalaki, Chaido Pastaka, Foteini Malli, Konstantinos Gourgoulialis, Georgia Xiromerisiou
- PA3587 Intermittent hypoxia can induce apoptosis of macrophage**  
Yina Wang (Changsha (Hunan), China), Xiao Xiao, Silei Deng, Jingjie Kuang, Yuanguo Chen, Yayong Li
- PA3588 Intermittent hypoxia up regulates mTOR expression in hepatic macrophages through CX3CL1/CX3CR1**  
Yina Wang (Changsha (Hunan), China), Silei Deng, Xiao Xiao, Yuanguo Chen, Yayong Li
- PA3589 Tracking of respiratory effort during hypopneas in sleep apnea patients by analysis of energy ratio of breathing sounds using PneaVoX sensor**  
Martin Glos (Berlin, Germany), Songül Karaca, Jade Vanbuis, Margaux Blanchard, Paria Pourriahi, Meghna Jha, Ingo Fietze, Thomas Penzel
- PA3590 Experience with the mandibular advancement device (MAD) in the sleep-disordered breathing clinic.**  
Pablo Giménez Ruiz (Valencia, Spain), Alberto Martínez Aracil, Amparo Lluch Bisbal, Judith Murillo Cortés, Rafael Navarro Iváñez, Estrella Fernández Fabrellas
- PA3591 Two birds, one stone: a RCT investigating the efficacy of dexamfetamine for treating obesity and obstructive sleep apnoea**  
Natalie Gauci (Kingswood, Australia), Hazer Khalifa, Donald Lee, David Coulshed, Emily Hibbert, Kaye Foster-Powell, Alison Poulton

- PA3592** **The effect of low dose CO<sub>2</sub> on sleep quality in healthy subjects**  
Shanfeng Liang (Guangzhou, China), Dongxiao Lu, Qishan Wei, Baiting He, Luguang Wu, Yingxin Wu, Joerg Steier, Andrew Wellman, Yuanming Luo
- PA3593** **Gender transition from female to male as a risk factor for sleep-disordered breathing**  
Samuel Genzor (Olomouc, Czech Republic), Jan Mizera, Jakub Vanek, Jan Prasko, Petr Jakubec, Monika Zurkova, Jiri Kufa
- PA3594** **Obesity and self-reported symptoms as determinants of responses to atomoxetine and aroxbutynin for sleep apnea**  
Ludovico Messineo (Boston, United States), Scott Sands, Andrew Wellman, Ali Azarbarzin
- PA3595** **TRANSCUTANEOUS NOCTURNAL CAPNOGRAPHY - AN UNDERUSED TOOL?**  
Laura Abad Chamorro (Oviedo, Spain), Gemma Rubinos Cuadrado, Maria José Vázquez López, Irene Fernández Suárez, Patricia Rodríguez Menéndez, Ina Iordanova Guerassimova, Pablo Lozano Cuesta, Ines Ruíz Álvarez, Juan Francisco Nieves Salceda, Laura Martínez Vega, María Rodil Riera, Eduardo Sánchez Vázquez, Isabel Martínez Gozález-Posada, Patricia Álvarez Álvarez, Ángela Lanza Martínez, Ramon Fernández Álvarez
- PA3596** **Neck structures, risk factor for obstructive sleep apnea**  
Norbert Wellmann (TIMISOARA, Romania), Alexandru Cătălin Motofeala, Monica Steluța Marc
- PA3597** **Estimating obstructive sleep apnea endotypes from the oxyhemoglobin saturation signal**  
Ludovico Messineo (Boston, United States), Ali Azarbarzin, Neda Esmaeili, Atqiya Aishah, Daniel Vena, Gonzalo Labarca, Laura Gell, Hu Wen-Sin, Hyung-Chae Yang, Scott Sands, Andrew Wellman
- PA3598** **Gender difference in residual sleepiness at 1-year of CPAP treatment**  
Pasquale Tondo (Foggia, Italy), Simone Sorangelo, Anela Hoxhallari, Giulia Scioscia, Matteo Siciliano, Rosa Leccisotti, Matteo Bradicich, Giorgia Moriondo, Piera Soccio, Giuseppe Mansueto, Roberto Sabato, Maria Pia Foschino Barbaro, Donato Lacedonia
- PA3599** **Systematic Review and Pathway Analysis of differentially expressed microRNAs in Obstructive Sleep Apnea**  
Barbara Santos (Coimbra, Portugal), Laetitia Gaspar, Ana Capitão, Alexandrina Ferreira Mendes, Claudia Cavadas, Irina S. Moreira, Ana Rita Álvaro
- PA3600** **Late Breaking Abstract - Dysanapsis in adult obstructive sleep apnoea patients and its association with asthma.**  
Hina Qiam (NORWICH, United Kingdom), Masood Ur Rasool, Prasanna Sankaran, Sadiyah Hand
- PA3601** **Late Breaking Abstract - Association between obstructive sleep apnea syndrome (OSAS) and QRS duration in women**  
Derlen Ozgec (Nicosia, Cyprus), Cenk Conkbayır, Mustafa Akansoy

## PS-6 in poster area

## Session 356

16:00 - 17:30

## Poster session: Precision medicine considerations and inhalation efficacy in airway diseases

Disease(s) : **Airway diseases** **Respiratory critical care**

Method(s) : General respiratory patient care Cell and molecular biology Respiratory intensive care Epidemiology Pulmonary function testing Public health

Tag(s) : Clinical

Chairs : Ellen Tufvesson (Lund, Sweden), Morten Hvidtfeldt (Lejre, Denmark)

- PA3602** **Absolute blood eosinophil counts among 3,763 healthy, asthmatic, and COPD subjects across India.**  
Priyanka Dhumal (Pune, India), Virendra Singh, Malay Sarkar, Arjun Padmanabhan, Rajesh Swarnakar, Devasahayam Christopher, Mohankumar Thekkinkattil, Raja Dhar, Jitendra Ingole, Arpan Shah, Gayathri Joshy, Sonali Trivedi, Nagesh Dhadge, Shrikant Krishmurthy, Saurabh Karmakar, Sameer Arbat, Vijay Tyagi, Saibal Moitra, Sahebrao Toke, B Archana, Suresh Anantraj, Surya Kant Tripathi, Zuber Ahmed, Sanjay Kochar, Sapna Madas, Swapnil Gadhave, Sundeep Salvi
- PA3604** **Treatable trait guided asthma management: biomarker changes and responder analysis**  
James Fingleton (Wellington, New Zealand), Rob Mclachlan, Jenny Sparks, Richard Beasley, Alvar Agusti, Peter G Gibson, Ian Pavord, Jo Hardy, Mark Weatherall, Allie Eathorne, Vanessa M McDonald
- PA3605** **The impact of smoking history on baseline characteristic in patients with severe asthma in the German Asthma Net (GAN)**  
Leonie Biener (Bonn, Germany), Slagjana Stoshikj, Jonas Brugger, Roland Buhl, Eckard Hamelmann, Stephanie Korn, Christian Taube, Katrin Milger-Kneidinger, Christian Schulz, Hendrik Suhling, Margret Jandl, Rainer Ehmman, Olaf Schmidt, Marco Idzko, Dirk Skowasch
- PA3606** **The impact of pretreatment blood eosinophils count (BEC) in the efficacy of Allergen Immunotherapy (AIT)**  
Antonios Christopoulos (Patras, Greece), Maria-Elpida Christopoulou, Ioannis Christopoulos, Georgios Tsirikos, Panagiota Tsiri, Eva Theohari, Electra Koulousousa, Vasiliki Sotiropoulou, Demitris Komninos, Argyrios Tzouvelekis



- PA3607 Fractional exhaled nitric oxide as a biomarker in patients with uncontrolled asthma**  
William Busse (Madison, United States), Ian D. Pavord, Michael E. Wechsler, Ignacio J. Davila, Arman Altincatal, Megan Hardin, Xavier Soler, Harry Sacks, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe
- PA3608 The effect of lung emptying on the airway deposition of aerosol drugs**  
Janos Tamas Varga (Budapest, Hungary), Árpád Farkas, Gábor Tomisa, Georgina Szénási, Péter Czaun, Alpár Horváth
- PA3609 Aerosol delivery during high flow nasal oxygenation: breath enhanced nebulization.**  
Gerald Smaldone (Stony Brook, United States)
- PA3610 BDP/FF FDC protects against bronchospasm induced by PEG, a BNT162b2 COVID-19 vaccine excipient**  
Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Facciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani
- PA3611 The effect of lung emptying on the breathing parameters characterizing the inhalation of aerosol drugs**  
Botond Havadtoi (Budapest, Hungary), Izolda Réti, Norbert Ilyés, Árpád Farkas, Alpár Horváth, Balázs Sánta, Tamás Kovács, Péter Czaun, Gabriella Gálffy
- PA3612 Anti-IL-5/5Ra biologics improve work productivity and activity in severe asthma.**  
PP Hekking (Rotterdam, Netherlands), Hanna Kuiper - Van Der Valk
- PA3613 Improving access to biologic treatments for patients with severe asthma**  
Angela Cooper (Stoke on Trent, United Kingdom), Holly Minshall, Elfatih Idris
- PA3614 Consistency of Medication Delivery with Breath Actuated Technology when Simulated with Differing Inhalation/Exhalation Ratios**  
Mark Nagel (London (ON), Canada), Rubina Ali, Cathy Doyle, Jason Suggett
- PA3615 ORBE II study: clinical characteristics and outcomes after treatment with benralizumab according to baseline blood eosinophil count**  
Alvaro Martinez Mesa (Malaga, Spain), Jose Luis Velasco Garrido, Ismael Garcia Moguel, Carlos Martinez, Ruben Andujar, Carmen Cañete, Rocío Díaz Campos, Loles Arnao, Gabriel Niza, Javier Nuevo, Elisa Luzon Alonso, Alicia Padilla
- PA3616 ORBE II study: clinical characteristics and outcomes after treatment with benralizumab according to smoking status**  
Carlos Martínez Rivera (Barcelona, Spain), Francisco Casas, Marta Palop, Luis Cassini, Laia Secall, Maria Jose Escarpenter, Javier Nuevo, Elisa Luzón Alonso, Alicia Padilla Galo
- PA3617 Can patients with FEV1 ≥80% achieve improvements with benralizumab treatment? An ORBE II study subanalysis according to lung function**  
Marina Blanco Aparicio (A Coruña, Spain), Eva Martínez Moragón, Andrea Trisán Alonso, Borja Valencia Azcona, Pilar Ausín Herrero, Eugenia Navarrete Rouco, Marta González Sierra, Javier Nuevo Rivero, Elisa Luzón Alonso, Alberto Levy Naón
- PA3618 Long-term efficacy and tolerability of dupilumab in patients with moderate-to-severe type 2 asthma stratified by baseline characteristics**  
Michael E. Wechsler (Denver, United States), Linda Rogers, Giorgio Walter Canonica, Arman Altincatal, Megan Hardin, Xavier Soler, Paul J. Rowe, Yamo Deniz, Harry Sacks, Juby A. Jacob-Nara
- PA3619 Unprimed electrostatic plastic bottle spacer delivered more salbutamol aerosol to airways than antistatic valved holding chambers**  
Hyouk-Soo Kwon (Seoul, Republic of Korea), Ji-Yoon Oh, Ji-Hyang Lee, Yu Ri Kang, Young-Soon Yoon, Woo-Jung Song, Tae-Bum Kim, You Sook Cho
- PA3620 Late Breaking Abstract - Evaluation of the bronchoconstriction potential and safety profile of the novel environmentally-friendly HFA-152a propellant compared to the marketed HFA-134a propellant in a randomized clinical trial of adults with mild asthma**  
Michela Salvadori (Parma, Italy), Dave Singh, Brian Laker, James W Dodd, Luca Girardello, Kusum S Mathews, Gianluigi Poli
- PA3621 Late Breaking Abstract - Baseline characteristics impact on asthma exacerbation risk: individual patient trial data analysis**  
Pierluigi L. Paggiaro (Pisa (PI), Italy), David Price, Nicolas Roche, Sebastian Moreira, Manish Verma, Shalini Girotra, Maximilian Plank, Sean Oosterholt, Oscar Della Pasqua

PS-7 in poster area

Session 357

16:00 - 17:30

Poster session: Chronic obstructive pulmonary disease exacerbations

**Disease(s) :** **Airway diseases** **Respiratory critical care**

**Method(s) :** General respiratory patient care Cell and molecular biology Epidemiology Public health Pulmonary function testing  
Respiratory intensive care Imaging

**Tag(s) :** Clinical

**Chairs :** Fabiano Di Marco (Milan, Italy), Kathrin Kahnert (München, Germany)

<b>PA3622</b>	<b>Evaluation of ACCEPT to predict COPD exacerbations in NOVELTY</b> Rod Hughes (Sheffield (South Yorkshire), United Kingdom), Samuel Lewis, Adam Taylor, Eleni Rapsomaniki, Hana Müllerová, Cecilia Kristensson, Andrew Harper, Pierre-Régis Burgel, Mohsen Sadatsafavi, Caroline Owen, . For The Novelty Scientific Community And The Novelty Study Investigators
<b>PA3623</b>	<b>Impact of Intrinsic and Extrinsic Environmental Factors on Acute Exacerbations of Chronic Airway Disease</b> Ying-Yin Chen (Douliou, Taiwan), Hung-Chueh Peng, Chen-Wen Lin, Yen-Chen Hsein, Chung-Yu Chen
<b>PA3624</b>	<b>Chronic rhinosinusitis in COPD is associated with increased exacerbation risk</b> Anders Andersson (Göteborg, Sweden), Joel Bergqvist, Anne Lindberg, Caddie Zhou, Fredrik Nyberg, Johan Hellgren, Caroline Stridsman, Lowie E.G.W. Vanfleteren
<b>PA3625</b>	<b>Recognising exacerbations in Early COPD</b> Jordina Mah (London, United Kingdom), Andrew Ritchie, Gavin Donaldson, James Allinson, Aaron Braddy-Green, Chloe Bloom, Hassan Shahbakhti, Mairi Macleod, Dexter Wiseman, Luana Alves-Moreira, Malin Fageras, Kristoffer Ostridge, Olaf Jöns, Enrica Bucchioni, Chris Compton, Paul Jones, Karen Mezzi, Jørgen Vestbo, Peter Calverley, Jadwiga Wedzicha
<b>PA3626</b>	<b>Validation of the Rome proposal for severity of acute exacerbation of chronic obstructive pulmonary disease</b> Hyo Jin Lee (Seoul, Republic of Korea), Jung-Kyu Lee, Tae Yun Park, Eun Young Heo, Deog Kyeom Kim, Hyun Woo Lee
<b>PA3627</b>	<b>Comparison of eosinophilic and noneosinophilic exacerbations of COPD: phenotyping of the next relapse</b> Balazs Antus (Budapest, Hungary), Csilla Paska, Imre Barta
<b>PA3628</b>	<b>Association between changes in thoracic muscle mass assessed by high resolution computed tomography and exacerbations in patients with COPD- 1-year follow-up</b> Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyrman Alsted, Marina Sahakyan, Esben Bolvig Mark, Pernille Veiss-Pedersen, Rasmus Brath Christensen, Henrik Højgaard Rasmussen, Jens Brøndum Frøkjær, Lasse Riis Østergaard, Ulla Møller Weinreich
<b>PA3629</b>	<b>Frailty: a multifaceted challenge in Chronic Obstructive Pulmonary Disease</b> Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche
<b>PA3630</b>	<b>Patient-reported symptoms as drivers of COPD exacerbation risk in routine care</b> Hana Müllerová (Cambridge, United Kingdom), Clementine Nordon, Stefan Franzén, Laura Belton, Clement Erhard, Nifasha Rusibamayila, Rod Hughes, Pierre-Régis Burgel, Mohsen Sadatsafavi, Christer Janson, For The Novelty Scientific Community And The Novelty Study Investigators
<b>PA3631</b>	<b>Comparison of hospitalised AECOPDs secondary to SARS-CoV-2 versus other respiratory viruses</b> Martin MacDonald (Ferny Creek, Australia), Louis Chhor, Stefan Saggese, Garun Hamilton
<b>PA3632</b>	<b>Association between weather and emergency department visits for acute exacerbation of chronic obstructive pulmonary disease patients with acute respiratory failure</b> Man-Ju Ting (New Taipei City, Taiwan), Yating Chen, Yeong-Long Hsu, Shih-Lung Cheng
<b>PA3633</b>	<b>Malnutrition : An independent risk factor of an early readmission for acute exacerbation in COPD</b> Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche
<b>PA3634</b>	<b>Platelet count and platelet-to-lymphocyte ratio as biomarkers on the onset of a severe COPD exacerbation</b> Andreas Schönberg-Moe (EIKSMARKA, Norway), Balázs Csoma, András Bikov, Veronika Müller, Zsófia Lázár
<b>PA3635</b>	<b>Identifying opportunities for earlier diagnosis of high-risk COPD patients in Australia: an observational study</b> Andrew Dickens (Cambridge, United Kingdom), Christine Jenkins, Alexander Evans, Kerry Hancock, Anita Sharma, Belinda Cochrane, Paul Leong, Brian Ko, Florian Heraud, Porsche Le Cheng, Alexander Roussos, Sinthia Bosnic-Anticevich, Fabio Botini, Victoria Carter, Angelina Catanzariti, Clare Ghisla, Thao Le, Chantal Le Lievre, Ruth Murray, Kanchanamla Ranasinghe, Deb Stewart, Marije Van Melle, Rebecca Vella, Russell Wiseman, David Price
<b>PA3636</b>	<b>Analysis of sputum microbial metagenome in COPD based on exacerbation frequency and lung function: a case control study</b> Bingbing Wang (Shanghai, China), Shuanshuan Xie, Changhui Wang

- PA3637 Burden of chronic obstructive pulmonary disease (COPD) and risk factors for acute exacerbation: results of phase IV SWORD study**  
Sheetu Singh (Jaipur (Rajasthan), India), Bharat Bhushan Sharma, Arvind Sharma, Krishna Kumar Sharma, Kp Suraj, Tariq Mehmood, Kumar Utsav Samaria, Surya Kant, Nishtha Singh, Tejraj Singh, Aradhana Singh, Rajeev Gupta, Parvaiz Koul, Sundeep Salvi, Virendra Singh
- PA3638 Biochemical markers as predictors of outcomes in COPD exacerbations**  
Ana Sofia Maciel Campos Da Silva (Sesimbra, Portugal), Rita Enriquez, Joana Duarte, Andreia Daniel, Inês Claro, Margarida Barata, Maria Alvarenga Santos, Teresa Martín, Nídia Caires, Filipa Todo Bom
- PA3639 Pulmonary exacerbations in alpha-1 antitrypsin deficiency and usual COPD**  
Paul Ellis (Solihull, United Kingdom), Joshua De Soyza, Ketan Patel, John Ripollone, Alice Turner, Michael Newnham
- PA3640 Predictive factors of intensive care unit admission in COPD exacerbations**  
Asma Knaz (Sousse, Tunisia), Aissa Sana, Benzarti Wafa, Benbdira Baraa, Imen Gargouri, Ahmed Abdelghani
- PA3641 Predictors of acute exacerbations in COPD: a systematic review**  
Marjolein Brusse-Keizer (Enschede, Netherlands), Charlotte Cecile Bucsán, Anke Lenferink, S H B Van Dijk, W J C Van Beurden, P D L P M Van Der Valk, C J M Doggen, J Van Der Palen

## PS-8 in poster area

## Session 358

16:00 - 17:30

## Poster session: Clinical aspects in asthma

Disease(s) : **Airway diseases**

Method(s) : Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Pavol Pobeha (Košice, Slovakia), Antonio Spanevello (Milano, Italy)

- PA3642 Sensitivity and Specificity of the 2022 European Respiratory Society (ERS) Guidelines for the Diagnosis of Asthma in Adults**  
Andrew Simpson (Hull, United Kingdom), Sarah Drake, Ran Wang, Laura Healy, Hannah Wardman, Miriam Bennett, Clare S Murray, Stephen J Fowler, Angela Simpson
- PA3643 Medical care access and asthma-related hospitalization**  
Yossr Aloulou (Manouba, Tunisia), Hana Blibech, Houda Snene, Marwa Bougacha, Rym Cheour, Amal Zemzemi, Nadia Mehiri, Sameh Belhadj, Nozha Ben Salah, Bechir Louzir
- PA3644 Impact of protocolised care on difficult-to-treat asthma outcomes**  
Nicole Yu-Fang Sieow (Singapore, Singapore), Kundan Saripalli, Yiong Huak Chan, Wilson Chan, Anthony Yii, Xue Ning Choo, Tunn Ren Tay
- PA3645 Asthma frequent fliers: phenotypes, endotypes and current hospital healthcare utilisation – can we do better?**  
Charlotte Buchalter (Hertfordshire, United Kingdom), Rama Vancheeswaran
- PA3646 Longitudinal lung function trajectories in adults with severe asthma.**  
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Julie Marsh, Brendan Cooper, Ali Bahron, Adel Mansur
- PA3647 Does a normal symptom score for asthma exclude abnormal airway resistance in mildly symptomatic asthma Patients?**  
Ilgin Vardaloglu (Istanbul, Turkey), Mert Karatas, Bilun Gemicioglu
- PA3648 Relation of changes in PEF and FEV1 in exercise challenge in children**  
Leon Csonka (Tampere, Finland), Antti Tikkakoski, Jussi Karjalainen, Lauri Lehtimäki
- PA3649 Internal consistency reliability of the VCDQ for Inducible Laryngeal Obstruction**  
Siobhan Ludlow (Cheshire, United Kingdom), Bethany Tidmarsh, Charles Pantin, Stephen Fowler
- PA3650 Respiratory muscle strength investigation in asthma patients with post-COVID-19 syndrome and significant dyspnea**  
Svitlana Opimakh (Kyiv, Ukraine), Yurii Feshchenko, Galyna Gumeniuk, Mykola Gumeniuk, Maryna Polianska, Viktoria Ignatieva, Inna Zvol, Svitlana Moskalenko, Nataliia Vlasova, Iryna Chumak, Liudmyla Halai
- PA3651 Identifying undiagnosed asthma in symptomatic adults with normal pre- and post-bronchodilator spirometry**  
Sheojung Shin (Ottawa, Canada), George Whitmore, Louis-Philippe Boulet, Marie-Ève Boulay, Andréanne Côté, Céline Bergeron, Catherine Lemièrre, M. Diane Lougheed, Katherine L Vandemheen, Gonazlo Alvarez, Sunita Mulpuru, Shawn Aaron

- PA3652** **The impact of time-of-day on the diagnostic performance of tests for asthma**  
Ran Wang (Manchester (Greater Manchester), United Kingdom), Stephen Fowler, Robert Maidstone, Laura Healy, Sarah Drake, Lesley Lowe, Angela Simpson, Clare Murray, Hannah Durrington
- PA3653** **Impact on clinical practice of the ERS/ATS 2022 recommendation on defining bronchodilator response.**  
Monique Hardy (Roermond, Netherlands), Martijn Cuijpers, Herman-Jan Pennings
- PA3654** **The control of asthma in association with body mass index and the age of asthma onset**  
Vladyslava Kachkovska (Sumy, Ukraine)
- PA3655** **Difference between spirometry and oscillometry in detecting bronchodilator response in asthma.**  
Lotte Bult (Rotterdam, Netherlands), A Roos, G J Braunstahl, J C C M In 'T Veen
- PA3656** **Characterization of the patients attended in the Emergency Room due to asthmatic exacerbation**  
Daniel Enrique Vega Lizarazo (Malaga, Spain), Javier López, Alvaro Martinez, Eva Cabrera, Maria Carmen Fernández, José Luis Velasco
- PA3657** **Effectiveness of a comprehensive pulmonary rehabilitation program in difficult to treat bronchial asthma**  
Nicoletta R. Morelli (Den Haag, Netherlands), Eline Bij De Vaate, Peter Klijn
- PA3658** **Financial incentives to improve asthma management: a systematic review**  
Jasmine Hine (London, United Kingdom), Bohee Lee, Andy Bush, Anna Desimoni, Chris Griffiths, Gaby Judah, Louise Fleming
- PA3659** **Impact of socio-economic status on asthma control and therapeutic compliance in the Tunisian population**  
Houda Rouis (Ariana, Tunisia), Hana Dhifallah, Chirine Moussa, Donia Jridi, Chaima Turki, Oumayma Aggouni, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
- PA3660** **Work-related asthma and occupational asthma: what are the differences?**  
Nidhal Belloumi (la soukra, Tunisia), Siwar Chemingui, Meriem Mersni, Imen Youssef, Najla Mechergui, Hanene Ben Said, Ghada Bahri, Souraya Fenniche, Nizar Ladhari
- PA3661** **CONNECT3: design and rationale for a study of the BF DigiHaler System in adult patients with asthma**  
Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Richard Costello, Job F.M. Van Boven, Jennifer K. Quint, Janwillem Kocks, Randall Brown, Guilherme Safioti

## PS-9 in poster area

## Session 359

16:00 - 17:30

## Poster session: Pulmonary function monitoring

Disease(s) : **Airway diseases**

Method(s) : Physiology Pulmonary function testing Epidemiology Imaging General respiratory patient care

Tag(s) : Clinical

Chairs : Marco Contoli (Ferrara (FE), Italy), Kristian Brat (Brno, Czech Republic)

- PA3662** **Comparison of bronchodilator reversibility to spirometry and oscillometry in the ATLANTIS study**  
Franz Aaron Clemeno (London, United Kingdom), Janwillem Kocks, Leonardo Fabbri, Monica Kraft, Alberto Papi, Klaus Rabe, Maarten Van Den Berge, Dave Singh, Maxim Kots, Christopher Brightling, Salman Siddiqui
- PA3663** **Use of the CAPTURE case-finding tool to identify COPD patients who may need treatment**  
Jinping Zheng (Guangzhou (Guangdong), China), Yun Li, Fuqiang Wen, Qianli Ma, Rongchang Chen, Yongchang Sun, Tiantian Liu, Chenjuan Gu, Shuling Hu, Jie Song, Chris Compton, Nanshan Zhong, Paul Jones
- PA3664** **Spinal Muscular Atrophy patients are capable of meeting the ATS/ERS 2019 criteria for spirometry, evaluated by ArtiQ.QC**  
Benoit Cuyvers (Leuven, Belgium), Paul Desbordes, Ahmed Elmahy, Maarten De Vos, Marko Topalovic
- PA3665** **Relationships Between High-Resolution Computed Tomographic Features and Lung Function Trajectory in Patients with Asthma**  
JONG SOOK PARK (Bucheon, Republic of Korea), Jai Soung Park, Kyung Eun Shin, Choon-Sik Park, Joo-Hee Kim
- PA3666** **Preserved ratio impaired spirometry: fewer small airway dysfunction than COPD**  
Yumi Fujita (Shizuoka, Japan), Toshihiro Shirai, Shuichi Sugiyama, Taisuke Akamatsu, Keita Hirai, Yasuhiro Gon
- PA3667** **Lung volumes by CT and plethysmography: are we measuring the same? Data from the CanCOLD study**  
Tobias Lorenz Mraz (Wien, Austria), Miranda Kirby, Robab Breyer-Kohansal, Emiel F M Wouters, Wan Tan

<b>PA3668</b>	<b>Phenotyping asthma with airflow obstruction in middle-aged and older adults: a CADSET Clinical Research Collaboration</b> Xander Bertels (Gent, Belgium), Ahmed Edris, Judith Garcia-Aymerich, Rosa Faner, Howraman Meteran, Torben Sigsgaard, Peter Alter, Claus Vogelmeier, Núria Olvera, Nazanin Zounemat-Kermani, Alvar Agustí, Gavin Donaldson, Jadwiga Wedzicha, Guy Brusselle, Helena Backman, Eva Rönmark, Anne Lindberg, Judith Vonk, Kian Fan Chung, Ian Adcock, Maarten Van Den Berge, Lies Lahousse
<b>PA3669</b>	<b>Small Airway Dysfunction (SAD) in older patients: analysing lung function data from the SAFFRON study</b> Maximillian Thomas (Birmingham, United Kingdom), Alison Mansfield, Michael Armitage, Ketan Patel, Aditya Krishnan, Emily Ho, Marie Kershaw, Priya Chukowry, Alice Turner
<b>PA3670</b>	<b>Revisiting Hutchinson's paradigm: PRISm or vital capacity?</b> Caspar Schiffers (Vienna, Austria), Emiel Wouters, Tobias Mraz, Marie-Kathrin Breyer, Otto Burghuber, Sylvia Hartl, Robab Breyer-Kohansal
<b>PA3671</b>	<b>The comparison of new and old European Respiratory Society/American Thoracic Society criteria for airway responsiveness in patients with asthma</b> Nina Trepčić (Novi Sad, Republic of Serbia), Marko Nemet, Ivan Kopitović, Marija Vukoja
<b>PA3672</b>	<b>Bayesian modelling of combined FEV1 and FVC vital lung function trajectories: relationship with airflow obstruction and PRISm</b> Núria Olvera Ocaña (Barcelona, Spain), Àlvar Agustí, James Ross, Rosa Faner
<b>PA3673</b>	<b>Detection of Small Airway Disease with Oscillometry in Asthmatics</b> Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Dellaca, Owat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffers, Charles G. Irvin, Robab Breyer-Kohansal
<b>PA3674</b>	<b>Association of a polygenic risk score for chronic obstructive pulmonary disease with lung function across the lifespan</b> Natalia Hernandez-Pacheco (Stockholm, Sweden), Anna Kilanowski, Ashish Kumar, John A Curtin, Núria Olvera, Sara Kress, Xanders Bertels, Lies Lahousse, Laxmi Bhatta, Raquel Granell, Sergi Mari, Jose R Bilbao, Yidan Sun, Tarik Karramass, Simon Kebede Merid, Gang Wang, Jenny Hallberg, Maribel Casas, Judith Garcia-Aymerich, Mariona Bustamante, Göran Pershagen, Antonios Georgelis, Lesley Lowe, Angela Simpson, Ulrike Gehring, Roel Ch Vermeulen, Torben Sigsgaard, Vivi Schlünssen, Graham Roberts, Anna Bergström, Judith M Vonk, Janine Felix, Liesbeth Duijts, Nic Timpson, Guy Brusselle, Ben Brumpton, Arnulf Langhammer, Stephen Turner, John W Holloway, Syed Hasan Arshad, Adnan Custovic, Paul Cullinan, Clare S Murray, Maarten Van Den Berge, Inger Kull, Tamara Schikowski, Jadwiga A Wedzicha, Gerard Koppelman, Rosa Faner, Alvar Agustí, Marie Standl, Erik Melén, O N Behalf Of The Ers Cadset Clinical Research Collaboration
<b>PA3675</b>	<b>Patient attitudes towards digital peak flow monitoring in asthma</b> Sachin Ananth (London, United Kingdom), Serena Alpi, Thomas Antalfy
<b>PA3676</b>	<b>Relationship between impulse oscillometry and spirometry parameters in adults with pulmonary obstructive diseases</b> Marta Martin Lana (Zaragoza, Spain), Beatriz Herrero Cortina, Guillermo Samuel Loscertales Vacas, Ana Garcia Esteban, Xunxiao Lin, Lucia Elosua Prats, Patricia Iñiguez De Heredia Monforte, Jorge Luis Hurtado Ortega, Elena Borobia Irache, Ana Cristina Aguelo Velilla
<b>PA3677</b>	<b>How many lung function interpretations can an expert make in one hour based on the 2021 ERS/ATS standards?</b> Julie Maes (Leuven, Belgium), Paul Desbordes, Nadia Stachowicz, Janine Kaspers, Rami Arfoosh, Matthew Hegewald, Maarten De Vos, Marko Topalovic
<b>PA3678</b>	<b>Comparison of spirometry and both spectral and intra-breath oscillometry for the prediction COPD symptoms</b> Paolo Medina-Iglesias (Montreal, Canada), Hugo Morin, Carol Artico, Zoltan Hantos, Ronald Dandurand
<b>PA3679</b>	<b>Correlation and concordance of arterial oxygen saturation measured by arterial blood gases and pulse oximetry according to anatomical location</b> Cristhian Correa (Madrid, Spain), Virginia Gallo González, Rosa María Rojas Moreno-Tomé, María Del Carmen Suárez Rubio, Rafael Pesquera Criado, Daniel López Padilla, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu
<b>PA3680</b>	<b>Sharing recruitment sites with a precision-medicine based study</b> Guillaume Desachy (Mölnådal, Sweden), Anel Mahmutovic, Andrew Harper, John Tillinghast, Jason Cooper

17:30-19:00

INDUSTRY EVENING SYMPOSIUM

SEE PAGE 1

17:30-19:00

INDUSTRY EVENING MINI SYMPOSIUM

SEE PAGE 1

No Room Session 369 07:00 - 08:00

Public: Take the Active Option @ Congress

Aims : Build awareness of the Healthy Lungs for Life campaign and help people to get active at congress

07:15-08:15

INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

08:00-08:45

INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

Amber 3+4 Session 375 08:00 - 10:40

Skills workshop: SW13 Thoracic ultrasound basic principles

Aims : To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

Disease(s) : Thoracic oncology Interstitial lung diseases

Method(s) : Imaging General respiratory patient care

Tag(s) : Clinical

Target audience : Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Physician in Pulmonary Training

Chairs : Christian B. Laursen (Odense, Denmark)

08:00	<b>Introduction</b> Christian B. Laursen (Odense, Denmark)	3750
08:20	<b>Normal Thoracic Cavity</b> Helen Medill (Bristol (Avon), United Kingdom), Casper Falster (Odense, Denmark)	3751
08:20	<b>Pleural effusion and/or pleural thickening</b> Gilles Mangiapan (Creteil, France), Pia Iben Pietersen (Odense C, Denmark)	3752
08:20	<b>Case studies</b> Najib M. Rahman (ABINGDON, United Kingdom)	3753
08:20	<b>Guided interventions</b> Soren Helbo Skaarup (Aarhus C, Denmark), Rahul Bhatnagar (Bristol, United Kingdom)	3754

PS-1 in poster area Session 376 08:00 - 09:30

Poster session: Critical care and management of chronic respiratory failure

Disease(s) : Airway diseases Interstitial lung diseases Respiratory critical care Sleep and breathing disorders Thoracic oncology

Method(s) : Pulmonary rehabilitation Epidemiology General respiratory patient care Palliative care Physiology Respiratory intensive care Pulmonary function testing Surgery Public health

Tag(s) : Clinical

Chairs : Natasha Smallwood (Melbourne (VIC), Australia), Chair to be confirmed

PA3755	<b>The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure</b> Fangbo Zhao (Changchun (Jilin), China), Hongjing Lin
PA3756	<b>A contemporaneous comparison of functional recovery in ECMO and non-ECMO survivors of acute respiratory failure</b> Andrea Levine (Baltimore, United States), Noel Britton, Mackenzie Snyder, Binta Njie, Sara Viola, Hatoon Abbas, Waqas Bhati, Ryan Lee, Siu Yan Yeung
PA3757	<b>Delivering home mechanical ventilation: Evaluating a regional outreach service.</b> Laura Tregidgo (London, United Kingdom), Christopher Steward, Roy Enriquez, Nicholas Skipper, Sasha Fudio, Nicholas Hart, Georgios Kaltsakas, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Patrick B Murphy, Rebecca F D'Cruz

- PA3758 Ventilatory support and telemonitoring in patients with neuromuscular disease: a prospective study.**  
Claudia Simeire Albertini (São Paulo (SP), Brazil), Diogo Fernandes Dos Santos, Ana Elizabeth Cunha Guimarães De Almeida, Laerte Honorato Borges Junior, Vinicius Oliveira, Maria Fernanda Prado Rosa, William Nicoleti Turazza Da Silva, Daniela Name Chaul Vidigal, Isabella Cristina Guimarães De Almeida
- 
- PA3759 Long term outcome of patients treated with home NIV according to pulmonary rehabilitation (PR) attendance**  
Léa Razakamanantsoa (Paris, France), Typhaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout
- 
- PA3760 PaCO<sub>2</sub> vs etCO<sub>2</sub> correlations in Amyotrophic Lateral Sclerosis patients during routine out-patient follow-up**  
Dario D'Amato (Grumo Appula, Italy), Paola Pierucci, Gualtiero Ermando Romano, Marialuisa De Candia, Simone Rizzelli, Pierluigi Intiglietta, Alessandro Palumbo, Luciana Labate, Nicola Valerio, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpagnano
- 
- PA3761 Pilot clinical study on the safety, tolerance and comfort of thoracic vibratory therapy by electrostimulation. Phase 1. The ELECTROVEST study.**  
Maria Del Pilar Cejudo Ramos (Sevilla, Spain), Antonio Y. Méndez Alonso, Inmaculada Ortiz Molina, Rosa Vazquez Sanchez, Lola Nuñez Ollero, Fernando Diaz Guerrero, Mar Elena, Sergio Tejero Garcia, Miguel Angel Giráldez Sánchez, Esther Quintana Gallego
- 
- PA3762 Breathlessness and exercise performance to predict mortality in long-term oxygen therapy**  
Filip Björklund (Karlskrona, Sweden), Andreas Palm, Jwan Abdulrazak Gorani, Zainab Ahmadi, Josefin Sundh, Jenny Theorell Haglöw, Mirjam Ljunggren, Ludger Grote, Karin Wadell, Magnus Ekström
- 
- PA3763 Evaluation of a novel domiciliary long term oxygen therapy assessment service**  
Kathleen McGee (Glasgow, United Kingdom), Michael Mcgettrick, Katherine Rooney, Christopher Wills, Hannah Bayes
- 
- PA3764 Enhancing advance care planning and palliative care for respiratory patients: A 4-year review of integrated respiratory palliative MDT**  
Muhammad Salman Rashid (Leeds, United Kingdom), Suzie Gillon, Mike Stockton, Ellie Kane, Ash Birtles, Alison Boland
- 
- PA3765 Advances in Telemonitoring of Home Mechanical Ventilation (Brazil): Outcomes and update**  
Claudia Simeire Albertini (São Paulo (SP), Brazil), João Paulo Silveira, Maria Clariane Berto Hayashi, Vinicius Oliveira, Gerardo Ferrero, Debora Nunes Da Silva, Miguel Victor Deganutti Krause
- 
- PA3766 Title: Effects of exercises on lung function of NCFB and healthy subjects evaluated by impulse oscillometry system**  
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Daniele Oliveira Dos Santos, Ana Lara De Castro Rodrigues, Larisse Souza Reis, Jéssica Perossi, Sulamita Pereira Rosa, Larissa Perossi, Hugo Celso Dutra De Souza, José Antônio Baddini-Martinez
- 
- PA3767 Determination of parameters associated with physical activity levels in spinal cord injury**  
Kubra Kardes (BAĞCILAR, Turkey), Yasemin Buran Cirak, Emine Atici, Burcu Isikci, Yunus Emre Tutuneken, Nurgül Durustkan Elbasi
- 
- PA3768 Oropharyngeal dysphagia in COPD patients**  
Anne Sophie Malishchuk (Rouen, France), Armand Bonne, Rimeh Ayari, Eric Verin
- 
- PA3769 Pulmonary rehabilitation following hospitalised exacerbations in people with bronchiectasis**  
Jennifer Kilduff (London, Ireland), Claire Nolan, Suhani Patel, Anand Shah, Janet Stowell, William Man
- 
- PA3770 Infant tracheostomy-consider the need for long term ventilation (LTV) in infants needing tracheostomy for airway issues**  
Siddhant Lalwani (Birmingham, United Kingdom), Swathi Sanapala, Channa Panagamuwa, Prasad Nagakumar, Isobel Brookes
- 
- PA3771 Patients' clinical and psychological status in different COVID-19 waves: a quanti-qualitative study**  
Marina Maffoni (Montescano, Italy), Martina Vigorè, Valeria Torlaschi, Alessandra Gorini, Maria Teresa La Rovere, Roberto Maestri, Maurizio Bussotti, Sergio Enea Masnaghetti, Francesco Fanfulla, Antonia Pierobon
- 
- PA3772 Building healthcare professionals consensus on non-pharmacological patient care priorities during hospitalisation and post-discharge phases following acute exacerbation of chronic obstructive pulmonary disease (AECOPD)**  
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sanjay Ramakrishnan, Sally Singh
- 
- PA3773 Prehabilitation in lung cancer surgery: A review and meta-analysis of RCT studies**  
Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Evangelia Chatzimichali, Evangelia Liverakou, Aikaterini Katsandri, Ioannis Kalomenidis, Paraskevi Katsaounou

- PA3774** **The Successful Procedures Of weaning from Tracheostomy (SPOT) study: preliminary analysis of predictive factors for failure and validation of the QsQ score**  
Dejan Radovanovic (Milano (MI), Italy), Marina Gatti, Debora Spitaleri, Stefano Pini, Marina Saad, Andrea Gramegna, Michele Mondoni, Stefano Aliberti, Fabiano Di Marco, Stefano Centanni, Francesco Blasi, Pierachille Santus

**PS-10 in poster area** **Session 377** **08:00 - 09:30**

**Poster session: Monitoring in chronic airway disease (1)**

**Disease(s) :** **Airway diseases**

**Method(s) :** General respiratory patient care Public health Pulmonary function testing Epidemiology Imaging

**Tag(s) :** Clinical

**Chairs :** Marieann Högman (Uppsala, Sweden), Giuseppe Guida (ORBASSANO (TO), Italy)

- PA3775** **Assessment of Small Airway Flow Parameters: A Comparative Study between Realistic and Idealistic Computational Models**  
Yousry Khaled Mohamed Elmahdy Mohamady (Leuven, Belgium), Vincent Geudens, Charlotte De Fays, Iwein Gyselincx, Lucia Aversa, Pieter-Jan Kerckhof, Gitte Aerts, Astrid Vermaut, Hanne Beeckmans, Karen Maes, Lynn Willems, Marie Vermant, Emanuela Elsa Cortesi, Tinne Goos, John McDonough, Laurent Godinas, Rozenn Quareck, Wim Wuyts, Robin Vos, Laurens Ceulemans, Dirk Van Raemdonck, Ghislaine Ramirez, Wim Janssens, Marcel Filoche, Bart Vanaudenaerde

- PA3776** **Clinical usefulness of exhaled breath temperature in asthma management**  
Mami Rikimaru (Fukushima, Japan), Junpei Saito, Yasuhito Suzuki, Atsuro Fukuhara, Tomoyoshi Lee, Ryuki Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Natsumi Watanabe, Takaya Kawamata, Julia Morimoto, Ryuichi Togawa, Yuki Sato, Hiroyuki Minemura, Takefumi Nikaido, Naoko Fukuhara, Kenya Kanazawa, Yoshinori Tanino, Yoko Shibata

- PA3777** **Association of blood eosinophils and exhaled nitric oxide with exacerbations in patients with asthma, COPD, and asthma+COPD: the NOVELTY study**  
Susan Muiser (Groningen, Netherlands), Hana Müllerova, Laura Belton, Clement Erhard, Nifasha Rusibamayila, Alvar Agustí, Rosa Faner, Ian Pavord, Hiromasa Inoue, David Price, José Olaguibel, Huib Kerstjens, Maarten Van Den Berge

- PA3778** **Establishment of the alpha-1 research registry analyzing demographic and participant specific characteristics**  
Jeanine D'Armiento (New York, United States), Alison Keaveny, Laura Fonseca, Charlie Strange, James Michael Wells, Nadine Nuchovich, Randel Plant, Monica Goldklang

- PA3779** **Recognizing asthma risk scenarios: individualized inhaler usage and inhalation parameter profiles from an electronic inhaler with integrated sensors**  
Guilherme Safioti (Stigtomta, Sweden), Mark L. Levy, Flavia Hoyte, Giselle Mosnaim, Michael Wechsler, Nathalie Magnus, Katja Sagalovich, Sinthia Bosnic-Anticevich, Janwillem Kocks

- PA3780** **Preventing hospital readmissions of COPD patients : alerting rules on vital signs for remote patient monitoring**  
Yann Le Guillou (Cesson-Sévigné, France), Florian Tilquin, Sylvain Le Liepvre, Graziella Brinchault, Tiphaine Guy, Fanny Thépault

- PA3781** **COPD Screening and Ventilatory Function Assessment based on smartwatch sensor signals**  
Yibing Chen (Beijing, China), Lu Cao, Dahui Zhao, Song Meng, Dan Li, Wenjuan Chen, Jing Li, Kailun Xia, Lixin Xie

- PA3782** **RS and PRISM: symmetric reductions in FEV1 and FVC?**  
Tobias Lorenz Mraz (Wien, Austria), Caspar Schiffers, Emiel Wouters, Marie-Kathrin Breyer, Otto Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

- PA3783** **Validation of the Obstructive Lung Disease Questionnaire in a primary care cohort, with additional focus on ACO in primary and tertiary care**  
Liz Cuperus (Rotterdam, Netherlands), Cathelijne Van Zelst, Huib Kerstjens, Rudi Hendriks, Maureen Rutten-Van Molken, Jacqueline Muilwijk-Kroes, Gert-Jan Braunstahl, Hans In 'T Veen

- PA3784** **Exploratory study of a risk prediction artificial intelligence model to diagnose asthma and COPD in Mexico**  
Ramses Hernandez (Mexico, Mexico), Roxana Rodriguez, Oscar Villalva, Joaquin Pimentel, Jose Luis Miguel, Miguel Angel Villasis

- PA3785** **Utility of the Oscillometer in the detection of small airways dysfunction (SAD) in patients with respiratory symptoms and normal lung function**  
Raja Dhar (Kolkata (West Bengal), India), Sushmeeta Chhowala

- PA3786** **Impulse oscillometry findings in subjects with preserved ratio impaired spirometry (PRISM)**  
Andrei Malinowski (Uppsala, Sweden), Gunnar Engström, Suneela Zaigham, Johan Sundström, Christer Janson, Per Wollmer



- PA3787 Double Pulmonary diffusing capacity for NO and CO (DLNO/CO) in patients with COPD: implications beyond traditional lung function assessments**  
Emilie Maufroy (Bruxelles, Belgium), Silvia Perez Bogerd, Kevin Forton, Corentin Scoubeau, Thomas Schaefer, Alain Michils, Alain Van Muylem, Vitalie Faoro
- PA3788 Nutrition Risk Index: A predictive metric of severity and subsequent lung impairment in COPD**  
Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche
- PA3789 The effect of mobile health application on symptom control, self-efficacy and chronic disease management in COPD**  
Bilun Gemicioglu (Istanbul, Turkey), Neşe özdemir, Nuray Enç
- PA3790 Comparing testing parameters for forced oscillation technique among healthy Indians with published reference norms**  
Madhuri Batyala (Mumbai, India), Shantanu Tilak, Lancelot Pinto
- PA3791 Predictors of Pulmonary hypertension in chronic obstructive pulmonary disease**  
Lamia Shaaban (Assiut, Egypt), Ashraf Zin El-Abdeen Mohamed, Amira Emad El-Din, Ali Mohamed Tohami, Waleed Gamal
- PA3792 FeNO@Home: a proof of concept protocol for home monitoring fractional exhaled nitric oxide in patients with asthma**  
Enrico Marco Heffler (Milano, Italy), Giovanni Paoletti, Tim Harrison, Matthew J Martin, Kai-Michael Beeh
- PA3793 How up-to-date is the Electronic Health Record?**  
Job van der Palen (Enschede, Netherlands), Maarit Albers, C.C. Bucsán
- PA3794 Prevalence of subjects enrolled in CPASS who have peak flow rate: height ratio of < 2.2 liters/sec/meter<sup>2</sup>**  
Shane Villamonte (Manila, Philippines), Guinevere Agra, Celeste Mae Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, Roland Panaligan, Tim Trinidad

PS-11 in poster area

Session 378

08:00 - 09:30

Poster session: Environment, occupation, and lung diseases

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#) [Pulmonary vascular diseases](#)

Method(s) : Cell and molecular biology Public health Epidemiology General respiratory patient care Imaging Pulmonary function testing Physiology

Tag(s) : Translational

Chairs : Christopher C. Huntley (Bromsgrove, United Kingdom), Benoit Nemery (Leuven, Belgium)

- PA3795 Outcome of artificial stone silicosis in an Italian cluster of patients**  
Paola Mason (Padova (PD), Italy), Marco Biasioli, Filippo Liviero, Piero Maestrelli, Stefania Vio
- PA3796 Silicosis in rutilated quartz miners in Brazil**  
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Jefferson Benedito Pires De Freitas, Rafael Futoshi Mizutani, Gustavo Corrêa De Almeida, Mario Terra-Filho, Ubiratan De Paula Santos
- PA3797 Occupational trends in asbestos-related pleural disease (ARPD): data from the SWORD scheme**  
Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), Rheanna Pereira, Laura Byrne, Ireny Y. K. Iskandar, Melanie Carder, Christopher Barber, Martie Van Tongeren
- PA3798 Asbestos exposure, a cause of pleuroparenchymal fibroelastosis (PPFE)?**  
Christopher C. Huntley (Bromsgrove, United Kingdom), Sherwood Burge, Alastair Robertson, Madava Djeraman, John Reynolds, Gareth Walters
- PA3799 Decrease of DLCO and VC is associated with asbestos-related changes on TCT**  
Alexandra Marita Preisser (Hamburg, Germany), Lennart Ströker, Kersten Peldschus, Robert Herold, Volker Harth
- PA3800 The Nintedanib in Progressive Pneumoconiosis Study (NiPPs): early data from Australia.**  
Aruvi Thiruvarduchelvan (Lidcombe, Australia), Louise Hart-Brown, Mark Bloch, Deborah Yates
- PA3801 RELATIONSHIP BETWEEN AIR POLLUTION IN COMUNIDAD DE MADRID AND THE DEVELOPMENT OF CHRONIC RESPIRATORY FAILURE IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS**  
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Cristina Mariscal Aguilar, Carlos Carpio, Ester Zamarrón, Daniela Alloca, Isabel Esteban, María Fernández-Velilla, Gema Bonilla, Isabel Esteban, Rita Regojo, Concepción Prados, Rodolfo Álvarez-Sala
- PA3802 Potential biomarkers for the diagnosis of patients with fibrotic hypersensitivity pneumonitis**  
Silvia Sánchez-Díez (Barcelona, Spain), Xavier Muñoz, David Espejo, Susana Gómez-Ollés, Iñigo Ojanguren, Christian Romero-Mesones, María-Jesús Cruz

- PA3803 Exposure to mould in dwellings and respiratory/allergic/systemic symptoms in Italian children**  
Sara Maio (Pisa (PI), Italy), Giuseppe Sarno, Sandra Baldacci, Anna Angino, Iliaria Stanisci, Sofia Tagliaferro, Patrizia Silvi, Giovanni Viegi
- PA3804 Lung function, mercury exposure and chronic mountain sickness in gold miners at 5100m**  
Ahmet Sevik (Zuerich, Switzerland), Dominic Gilliland, Renaud Persoons, Benoit Champigneulle, Julien Brugniaux, Samuel Verges, Michael Furian
- PA3805 Effects of hypobaric hypoxia on workers in a ski resort**  
Pedro José Romero Palacios (Peligros, Spain), Bernardino Alcázar Navarrete, Antonio Luis Arrebola Moreno, Juan Antonio Holgado Terriza, María Wenceslao Puya Pérez
- PA3806 Lung deposition patterns of anthracosis is related to air pollution environment by geolocalization in a temporal manner**  
Maria Julia Faci do Marco (Ribeirão Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimermam, Mateus Magalhães Lage Moraes, Alexandre Todorovic Fabro
- PA3807 Soot particles induce cytotoxicity, oxidative stress and inflammatory responses in structural lung cells linked to adverse health effects from exposure to polluted air.**  
Anna-Karin Larsson-Callerfelt (Lund, Sweden), Nilofar Faruqui, Sofie Orell, Camilla Dondi, Jenny Rissler, Konstantina Vasilatou, Ian Mudway, Monica Karedal, Michael Shaw
- PA3808 Association between Covid-19 pandemic and shift work: the COVISTRESS online survey**  
Elvia Giovanna Battaglia (Milano (MI), Italy), Monica Puligheddu, Rosamaria Lecca, Matteo Figorilli, Maria Livia Fantini, Maëlys Clinchamps, Frederic Dutheil, Pierluigi Cocco
- PA3809 Comparison of the immune response of respiratory healthcare workers to booster vaccination against SARS-CoV-2 and to a subsequent viral infection**  
Imre Barta (Budapest, Hungary), Viktória Szél, Imola Mán, Lilla Lőrinczi, Balázs Antus
- PA3810 Long-term risk of COVID-19 after extreme smoke exposure**  
Michael J. Abramson (Melbourne (VIC), Australia), Tyler Lane, Matthew Carroll, Brigitte Borg, Tracy Mccaffrey, Caroline Gao, Catherine Smith, David Brown, David Poland, Shantelle Allgood, Jillian Ikin
- PA3811 Exposure to air pollution and respiratory diseases in adults: an innovative multipollutant approach**  
Sara Maio (Pisa (PI), Italy), Salvatore Fasola, Alessandro Marcon, Anna Angino, Sandra Baldacci, Maria Beatrice Bilò, Roberto Bono, Claudio Gariazzo, Stefania La Grutta, Pierpaolo Marchetti, Pietro Pirina, Giuseppe Sarno, Patrizia Silvi, Camillo Silibello, Giulia Squillacioti, Massimo Stafoggia, Iliaria Stanisci, Sofia Tagliaferro, Giuseppe Verlato, Giovanni Viegi
- PA3812 Clinical and inflammatory profile before and after specific inhalation challenge in individuals with suspected occupational asthma to persulfate salts**  
M<sup>a</sup> Jesus Cruz Carmona (Barcelona, Spain), MARIA SAEZ LOPEZ, Silvia Sánchez-Diez, Christian Romero Mesones, David Espejo, Ifiigo Ojanguren, María Jesús Cruz, Xavier Muñoz
- PA3813 Lung function impairment and COPD in workers from production of chemical materials for construction and engineering**  
Dragan Mijakoski (Skopje, North Macedonia), Sasho Stoleski, Jordan Minov, Aneta Atanasovska, Dragana Bislimovska, David Zdraveski, Jovanka Karadzinska-Bislimovska
- PA3814 Influence of PM and NO2 exposure on long-term risk of hospital admissions due to COPD exacerbations in 3 Polish agglomerations**  
Artur Badyda (Warszawa, Poland), Piotr Dąbrowiecki, Agata Dąbrowiecka, Anna Piórkowska, Andrzej Chciałowski

PS-12 in poster area

Session 379

08:00 - 09:30

Poster session: Recent advances in behavioural science in chronic respiratory disease

Disease(s) : Respiratory critical care | Airway diseases | Thoracic oncology | Sleep and breathing disorders | Interstitial lung diseases | Pulmonary vascular diseases

Method(s) : Public health | General respiratory patient care | Pulmonary rehabilitation | Epidemiology | Respiratory intensive care | Physiology

Tag(s) : Clinical

Chairs : Marieke Verkleij (Amsterdam, Netherlands), Jeannette Jacobs-Peters (Nijmegen, Netherlands)

- PA3815 The influencing factors of depressive symptom trajectories among COPD patients**  
Cui Wang (Beijing, China), Hongbo Chen, Peiyuan Liu, Ziqiu Zou, Shaomei Shang

- PA3816** **Impact of Shared Decision Making on medication adherence in patients with COPD and/or asthma: The ANANAS study.**  
Maria Achterbosch (Groningen, Netherlands), Priya Vart, Liset Dijk, Van, Job Boven, Van
- 
- PA3817** **Improving depression symptoms in COPD patients through home-based pulmonary rehabilitation with health coaching**  
Maria Benzo (Rochester, United States), Madison Roy, Roberto Benzo
- 
- PA3818** **COPD-related anxiety: A systematic review of patient perspectives.**  
Camilla Fischer Christiansen (Børkop, Denmark), Anders Løkke, Vibeke Bregnballe, Thomas Prior, Ingeborg Farver-Vestergaard
- 
- PA3819** **COVID-19 vaccination hesitancy in the European population aged 50+**  
Anna Boros (Warszawa, Poland)
- 
- PA3820** **The use of a questionnaire underpinning Capability, Opportunity, and Motivation to determine the psychological and behavioural barriers to adherence in patients with asthma (The COM-Behaviour asthma study).**  
Alice Munns (Kent, United Kingdom), Laura Wiffin, Daphne Kaklamanou, Ina Kostakis, Alessandra Fasulo, Thomas Brown, Anoop Chauhan
- 
- PA3821** **Neurocognitive and Neuropsychiatric Sequelae of Long COVID (LC) patients (pts)**  
Paraskevi Katsaounou (Athens, Greece), Evniki Ntinopoulou, Maria Karytinou, Sofia Margariti, Sofia Sideri, Katerina Poprelka, Theodoros Fasilis, Panayiotis Patrikelis, Maria Stefanatou, Archodoula Adonoglou, Sofia Pappa, Stylianos Gatzonis
- 
- PA3822** **Emotions associated with bouts of cough. A study in patients with refractory/unexplained chronic cough**  
Ebymar Arismendi Nunez (Vilassar de Dalt, Barcelona, Spain), Luis Puente-Maestu, Ignacio Dávila, Santiago Quirce, Francisco Javier González-Barcala, Luis Cea-Calvo, Marta Sanchez Jareño, Cristina Rivas-Pardinas, Christian Domingo-Ribas
- 
- PA3823** **Measuring the stigma of long COVID: principles and practices transferrable to other stigmatizing respiratory conditions**  
Ronald Damant (Edmonton (AB), Canada), Liam Rourke, Ying Cui, Grace Lam, Maeve Smith, Desi Fuhr, Jacqueline Tay, Rhea Varughese, Cheryl Laratta, Angela Lau, Eric Wong, Mike Stickland, Giovanni Ferrara
- 
- PA3824** **A qualitative study explaining family-management of children's and young people's asthma in the changing COVID-19 context**  
Grace Lewis (Leeds, United Kingdom), Linda Milnes, Alexandra Adams, Jürgen Schwarze, Alistair Duff
- 
- PA3825** **Non-Invasive Ventilation (NIV) in people affected by COVID-19 pneumonia: evaluation between acute and rehabilitation settings**  
Eleonora Volpato (Milano (MI), Italy), Paola Pierucci, Valentina Poletti, Lavinia Di Palma, Alessandro Pilon, Giovanna Elisiana Carpagnano, Laura Fagetti, Paolo Banfi
- 
- PA3826** **Sleep disorders between COVID-19 survivors with different levels of fear of COVID**  
Alvaro Montañez (Mexico City, Mexico), Liseth Sarai Castañeda Ordóñez, Viridiana Peláez Hernández, Diana Everanda Torres Gómez, Mauricio Reyes Franco, Adrián Rosas Trujillo, Fernando Casarin López, Ana Patricia Pedro Portillo, Nadia Hernández López, Mildred Corina De La Concha Duarte, Guiedani Galván Bautista, Arturo Rodríguez Medina, Luz Jiménez Gallardo, Rocío Sánchez Santillán, Arturo Orea Tejada
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- PA3827** **The usefulness of relationships assessing between personality dimensions as an element differentiating patients with obstructive sleep apnea.**  
Paweł Kwiecień (Warsaw, Poland), Joanna Domagała-Kulawik
- 
- PA3828** **Effectiveness of brief referral methods for smoking cessation – a literature review**  
Mads Hansen (Odense C, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke
- 
- PA3829** **Anxiety, depression and PTSD in COVID-19 survivors with and without invasive mechanical ventilation**  
Alvaro Montañez (Mexico City, Mexico), Fernando Casarin López, Viridiana Pelaez Hernandez, Adrian Rosas Trujillo, Celia Deyanira Ledesma Ruiz, Ana Patricia Pedro Portillo, Diana Everanda Torres Gómez, Mauricio Reyes Franco, Liseth Sarai Castañeda Ordóñez, Arturo Orea Tejada, Rocio Sanchez, Guiedani Galván, Nadia Hernández López, Arturo Rodriguez, Mildred Corina De La Concha Duarte
- 
- PA3830** **Reassessing the mental health of Respiratory High Care Unit (RHCU) staff in the aftermath of the COVID-19 pandemic**  
Hannah Badawy (solihull, United Kingdom), Catherine Salisbury, See Ling Tan, Abhimanyu Lal

**PA3831 Psychological affectation in caregivers of respiratory failure patients by age groups**  
Alvaro Montañez (Mexico City, Mexico), Diana Everanda Torres Gómez, Viridiana Peláez Hernández, Liseth Saraí Castañeda Ordóñez, Mauricio Reyes Franco, Fernando Casarín López, Adrián Rosas Trujillo, Ana Patricia Pedro Portillo, Nadia Hernández López, Mildred Corina De La Concha Duarte, Guiedani Galván Bautista, Arturo Rodríguez Medina, Luz Jiménez Gallardo, Rocío Sánchez Santillán, Arturo Orea Tejada

**PA3832 Autonomic alterations measured by temperature in COVID-19 survivors with and without IMV**  
Adrian Rosas Trujillo (CDMX, Mexico), Viridiana Peláez Hernández, Mauricio Reyes Franco, Diana Everanda Torres Gómez, Fernando Casarín López, Liseth Saraí Castañeda Ordóñez, Celia Deyanira Ledesma Ruíz, Ana Patricia Pedro Portillo, Mildred Corina De La Concha Duarte, Arturo Rodríguez Medina, Nadia Hernández López, Guiedani Galván Bautista, Luz Magdaly Jiménez Gallardo

**PA3833 Smoking behavior of the Tunisian physicians**  
Ines Moussa (Bizerte, Tunisia), Hana Mrassi, Hanen Smadhi, Ines Akrouf, Leila Fekih, Lamine Megdiche

**PA3834 A survey exploring the characteristics of current and former smokers with suspected lung cancer**  
Ingeborg Farver-Vestergaard (Vejle, Denmark), Mojtaba Saei, Morten Borg, Ole Hilberg, Anders Løkke

PS-13 in poster area

Session 380

08:00 - 09:30

## Poster session: COVID-19 biomarkers

Disease(s) : Respiratory critical care Airway diseases

Method(s) : Cell and molecular biology Physiology Respiratory intensive care Imaging Pulmonary function testing Public health General respiratory patient care

Tag(s) : Translational

Chairs : Ignacio Martin-Loeches (Dublin, Ireland), Jessica Rademacher (Hannover, Germany)

**PA3836 Krebs Von den Lungen-6 as a predictive indicator for the risk of secondary pulmonary fibrosis and its reversibility in COVID-19 patients**  
Runpei Lin (GuangZhou, China), Mingshan Xue, Teng Zhang, Hao Chen, Yifeng Zeng, Ning Li, Zhifeng Huang, Luqian Zhou, Xiaohua Douglas Zhang, Baoqing Sun

**PA3837 Oxidative stress parameters and leukocyte telomere dynamic change in patients with COVID-19 infection – three weeks of follow up**  
Marina Roksandić Milenković (Beograd, Republic of Serbia), Dejan Dimic, Nemanja Dimic, Jelena Kotur Stevuljevic, Azra Guzonjic, Danica Cuic, Dejan Zujovic

**PA3838 Balance between neutrophil extracellular trap formation and DNase activity in COVID-19 patients: a prospective cohort study**  
Renaud Prével (Bordeaux, France), Geoffrey Garcia, Sylvie Colomer-Labrousse, Alexandre Duvignaud, Etienne Clequin, Charles Dussiau, David-Alexandre Tregouët, Denis Malvy, Julien Goret, Maria Mamani-Matsuda, Antoine Dewitte, Chloe James

**PA3839 Levels of inflammatory and cardiac biomarkers as a predictor factor for complications and outcomes in hospitalized COVID-19 patients**  
Nona Rovira Ribalta (Solsona, Spain), Catia Cilloniz, Ruben López-Aladid, Ana Motos, Josep Lluís Bedini, Alba Soler-Comas, Roberto Cabrera, Kasra Kiarostami, Blanca Llonch, Laia Fernández-Barat, Antoni Torres

**PA3840 Altered red blood cell metabolism in COVID-19: A source of biomarkers to predict evolution**  
Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Francesc Puchades, Martina Palomino-Schätzlein, Rita Ortega-Vallbona, Noelia Carrión Collado, José Raúl Herance, Miguel García Del Toro, Estrella Fernández-Fabrellas, Juan José Tamarit

**PA3841 Altered peripheral blood neutrophil profiles are associated with persistent symptoms post-COVID19**  
Chloe Hughes (Dundee, United Kingdom), Merete Long, Holly Keir, Yan Hui Giam, Thomas Pembridge, Amy Gilmour, Amelia Shoemark, David Connell, Faisal Khan, James Chalmers

**PA3842 Evaluating the utility of a serum calprotectin lateral flow test in acute lung infection**  
Amy Gilmour (Dundee, United Kingdom), Chloe Hughes, Merete B Long, Holly R Keir, Yan Hui Giam, Hani Abo-Leyah, Thomas Pembridge, Lilia Delgado, Rebecca C Hull, Benjamin Jm New, Rebecca Dowey, Helena Turton, Alison M Condliffe, James D Chalmers, A A Rodger Thompson

**PA3843 TSLP gene polymorphisms and alarmin protein levels in COVID-19**  
Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Wattie, Lesley Wiltshire, Jennifer Le Roux, Eric Cheng, Thivya Srinathan, Terence Ho, Roma Sehmi, Mylinh Duong, Gail Gauvreau

<b>PA3844</b>	<b>Phenotypic Characteristics of Hospitalized Patients with COVID-19 Pneumonia Using Machine Learning Consensus Clustering Approach</b> Nuttinan Nalinthasnai (Bangkok, Thailand), Dararat Eksombatchai, Viboon Boonsarngsuk, Pongdhep Theerawit, Yuda Sutherasan, Detajin Junhasavasdikul, Somnuek Sangkanuparph, Tanapat Tassaneyasin, Ratchainant Thammasudjarit, Tananchai Petnak
<b>PA3845</b>	<b>Cytokine and chemokine signature of COVID-19 and predictive markers</b> Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Wattie, Lesley Wiltshire, Jennifer Le Roux, Eric Cheng, Thivya Srinathan, Terence Ho, Roma Sehmi, Mylinh Duong, Gail Gauvreau
<b>PA3846</b>	<b>Soluble Bradykinin as a clinical prognostic marker for SARS-CoV2?</b> Pajanivel Ranganadin (PONDICHERRY (Tamil Nadu), India), Agiesh Kumar Balakrishnan, Vignesh Mariappan
<b>PA3847</b>	<b>COVID-19 pneumonia: when do eosinophils matter?</b> Nicol Bernardinello (Trecenta (RO), Italy), Dylan Pasin, Giulia Grisostomi, Chiara Giraud, Gioele Castelli, Elisabetta Coconcelli, Anna Maria Cattelan, Paolo Spagnolo, Elisabetta Balestro
<b>PA3848</b>	<b>miR-21-5p high expression levels in younger hospitalized COVID-19 patients are associated with mortality and critical disease</b> Ramcés Falfán-Valencia (Ciudad de México (CDMX), Mexico), Brandon Bautista-Becerril, Karol J Nava-Quiroz, Ingrid Fricke-Galindo, Ivette Buendía-Roldán, Gloria Pérez-Rubio, Leslie Chávez-Galán, Angel Camarena, Rafael Dj Hernández-Zenteno
<b>PA3849</b>	<b>Vitamin D values in post-COVID syndrome patients are lower than in control groups</b> Jens Bräunlich (Leipzig, Germany)
<b>PA3850</b>	<b>Procalcitonin to rule out early bacterial coinfection in COVID-19 critically ill patients</b> Francesco Bindo (Cusano Milanino, Italy), Flavia Galli, Anna Motos, Laia Fernandez-Barat, Enric Barbeta, Sofia Misuraca, Andrea Palomeque, Ferran Barbé, Antoni Torres
<b>PA3851</b>	<b>Who gets persistent symptoms and why - analysing the plasma proteome in long COVID</b> Emma Denny (London, United Kingdom), Spyros I Vernardis, Robert Chapman, Rebecca Evans, Brintha Selvarajah, Arjun Nair, Joseph Jacob, Toby Hillman, Melissa Heightman, Jeremy S Brown, Markus Ralser, Joanna C Porter
<b>PA3852</b>	<b>Predictors of mortality among COVID-19 patients in Shebin El Kom Chest Hospital</b> Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Sarah El-Sayed Zaki Zaki, Ahmed Abd El-Rahman Ali, Asmaa Metwally Abd El-Tawab
<b>PA3853</b>	<b>Ferritin to Procalcitonin (F/P) ratio in patients with COVID19 pneumonia versus bacterial pneumonia. Do we have a reliable and challenging biomarker?</b> Radmila Dmitrovic (Belgrade, Republic of Serbia)
<b>PA3854</b>	<b>Late Breaking Abstract - Erdosteine and its metabolite MET-1 modulate innate immunity and stress oxidative state in SARS-CoV-2 infection</b> Sergio Strizzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Radovanovic, Daria Trabattoni, Pierachille Santus

**PS-14 in poster area** **Session 381** **08:00 - 09:30**

**Poster session: Pleural and miscellaneous infections**

**Disease(s) :** **Airway diseases** **Respiratory critical care**

**Method(s) :** Endoscopy and interventional pulmonology Epidemiology General respiratory patient care Respiratory intensive care Public health Imaging Pulmonary rehabilitation Surgery

**Tag(s) :** Clinical

**Chairs :** Eric Mortensen (Simsbury, United States), Valentina Agnese Ferraro (Rosa' (VI), Italy)

<b>PA3855</b>	<b>A scoping review of outcome measures in randomised controlled trials of pleural infection</b> Jessica Hughes (BRISTOL, United Kingdom), Sarah Rudd, Alice Milne, Nick Maskell, David Arnold
<b>PA3856</b>	<b>RAPID Score: Mortality and hospitalization risk stratification in pleural empyema</b> Maria João Lúcio (linda a velha, Portugal), Eva Brysch, Margarida Guerreiro, Fernando Nogueira
<b>PA3857</b>	<b>Incidence and clinical outcomes of pneumonia patients with pleural effusions in 28 urgent care clinics</b> Nathan Dean (Murray, United States), Jackie Eve, Allison Butler, James Hart, Thea Sakata, Eddie Stenejhem, Y. C. G. Lee
<b>PA3858</b>	<b>Intrapleural use of tissue plasminogen activator and DNase in management of pleural infection.</b> Prashanth Shetty (Aston Clinton, United Kingdom), Alex Francioni, Adeel Jafri

PA3859	<b>Clinical features of pneumothorax associated with COVID-19: a single-centre retrospective analysis</b> Kohei Fujita (Kyoto, Japan), Toshiyuki Iwata, Osamu Kanai, Hiroaki Hata, Masayuki Hashimoto, Hiroyuki Tanaka, Takao Odagaki, Tadashi Mio
PA3860	<b>Association between time-to-treatment and prognosis of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients; A multi-centre, retrospective observational cohort study (RE-VISION-PCP)</b> Haruka Fujioka (Kamogawa, Japan), Yuya Homma, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima
PA3861	<b>Chronic non-infectious lung conditions in HIV-infected children at Chris Hani Baragwanath Academic Hospital. Kegode E1, Verwey C1, Sipambo N1. 1 University of Witwatersrand, South Africa</b> everlyne kegode (johannesburg, South Africa)
PA3862	<b>Prognostic factors of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients: A multicentre, retrospective, observational cohort study (RE-VISION-PCP)</b> (, Japan), Haruka Fujioka, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima
PA3863	<b>Efficacy and safety of low-dose versus conventional-dose trimethoprim-sulfamethoxazole treatment for pneumocystis pneumonia in non-human immunodeficiency virus-infected patients: A multi-centre, retrospective observational cohort study (RE-VISION-PCP)</b> Tatsuya Nagai (Kamogawa, Japan), Haruka Fujioka, Yuya Homma, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima
PA3864	<b>Impact of bronchoalveolar lavage on the management of immunocompromised hosts</b> Kathleen Jahn (Basel, Switzerland), Meropi Karakioulaki, Desiree Schumann, Hans Hirsch, Karoline Leuzinger, Letizia Grise, Stefano Aliberti, Giovanni Sotgiu, Michael Tamm, Daiana Stolz
PA3865	<b>Clinical outcomes of haematological patients undergoing bronchoscopy in a registry of immunocompromised patients evaluated for pulmonary infections.</b> Eugene Gan (Singapore, Singapore), Brian Chua, You Xin Puan, Timothy Toh, Saripalli Kundan Reddy, Isaac Fong, Deshawn Tan, Yi Hern Tan
PA3866	<b>Burden of hospitalized adult pertussis in France, 2008-2020</b> Denis Macina (LYON, France), Mickael Arnaud, Johanna Despres, Ana Antunes, Regis Verdier, Juan C Vargas Zambrano
PA3867	<b>Antibiotic treatment strategies in a Danish cohort of patients with lung abscesses.</b> Søren Sperling (Aarhus N, Denmark), Victor Næstholt Dahl, Jakob Kirkegaard Vaarst, Christian Borbjerg Laursen, Tina Nørregaard Gissel, Pia Holland Gjørup, Andreas Fløe, Elisabeth Bendstrup
PA3868	<b>Pulmonary nocardiosis as an emerging infection in non-cystic fibrosis bronchiectasis</b> Mariapia Niceforo (Pisa, Italy), Miriam De Francesco, Roberta Gaeta, Federica Di Giorgi, Davide Chimera, Federico L. Dente, Roberta Pancani, Massimiliano Desideri, Francesco Pistelli, Laura Carrozzi
PA3870	<b>Impact of immune status on the clinical characteristics, treatment outcomes and mortality of pulmonary nocardiosis: A retrospective analysis in a tertiary care hospital from a low to middle-income country</b> Yasmin Rahim (Kettering, United Kingdom), Syed Muhammad Zubair, Muhammad Mustansir Mehdi Khan, Hamza Ahmed Ibad, Muhammad Irfan
PA3871	<b>Lung contusion due to military chest injury as a risk factor for bacterial pneumonia and other respiratory infections.</b> Oleh Yakovenko (Lutsk, Ukraine), Eduard Khodosh, Iryna Hrytsiuk, Tetiana Yakovenko
PA3873	<b>Bacteriological spectrum and drug susceptibility in post tuberculosis bronchiectasis</b> Tehreem Ahmad (Karachi, Pakistan), Faisal Faiyaz Zuberi
PA3874	<b>The Neutrophil-to-Lymphocyte ratio as a biomarker of severity in bronchiectasis</b> Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hana Mrassi, Sarra Ben Sassi, Sarra Trimech, Chirine Zaier, Imen Sahnoun, Leila Douik El Gharbi

PS-15 in poster area

Session 382

08:00 - 09:30

Poster session: Lung cancer challenges in real clinical settings

Disease(s) : Thoracic oncology Interstitial lung diseases Airway diseases Pulmonary vascular diseases

Method(s) : Epidemiology General respiratory patient care Imaging Pulmonary function testing Endoscopy and interventional pulmonology Public health Surgery

Tag(s) : Clinical

Chairs : Armin Frille (Leipzig, Germany), Amadea Heitmann (London, United Kingdom)

- PA3875 Development and validation of a predictive score of venous thromboembolism in patients with lung cancer: Tunisian Survey**  
Houda Rouis (Ariana, Tunisia), Chirine Moussa, Islem Mejri, Hela Kamoun, Soumaya Debiche, Nourchene Khalfallah, Linda Ben Hamida, Amel Khattab, Zied Moctamri, Mohamed Amine Megdiche, Sonia Maâlej
- 
- PA3876 Treatment with low-molecular-weight heparin negatively effects lung cancer patient survival**  
Julia Held (Hannover, Germany), Marc A. Schneider, Tobias Welte, Sabina Janciauskiene, Thomas Muley
- 
- PA3877 Thromboembolic events in lung cancer patients : what special features?**  
Nidhal Belloumi (la soukra, Tunisia), Lenda Ben Hmida, Chaima Habouria, Sirine Daoud, Hend Abid, Imen Bachouch, Fatma Chermiti, Soraya Fenniche
- 
- PA3878 ETIOLOGICAL PROFILE OF SUPERIOR CAVE SYNDROME**  
meryem zadi (CASABLANCA, Morocco)
- 
- PA3879 The Assess Respiratory Risk in Surgical Patients in Catalonia (ARISCAT) score overestimates postoperative complications' risk in thoracic surgery.**  
Georgia Hardavella (Athens, Greece), Ioannis Karampinis, Maria Salomidou, Irma Bracka, Theodoris Daskalos, Antonia Zachariou, Elli Keramida, Elena Bellou, Fotis Kyriakou, Despoina Zorpidou, Panagiotis Demertzis, Nikolaos Anastasiou
- 
- PA3880 The clinicopathological characteristics of 1139 cases of small cell lung cancer patients**  
Lei Li (Chengdu (Sichuan), China), Liang Zhou, Weimin Li
- 
- PA3881 Clinicopathologic characteristics of NSCLC patients with uncommon EGFR mutations in Korea**  
YOO JUNG LEE (Incheon, Republic of Korea), Chang Dong Yeo, Chan Kwon Park, Sung Kyoung Kim, Ju Sang Kim, Yong Hyun Kim, Jin Woo Kim, Seung Joon Kim, Sang Haak Lee, Hye Seon Kang
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- PA3882 Clinicopathological features and prognostic factors of lung adenocarcinoma in never smokers**  
Lan Yang (Chengdu, China), Dan Liu, Weimin Li
- 
- PA3883 Agreement between clinical and pathologic stage in NSCLC: the T component**  
Diogo André Barroso Ferreira (Vila Nova De Famalicão, Portugal), Patrícia Castro, Marta Castro, Margarida Dias, Daniel Coutinho, Eloísa Silva, José Miranda, Ana Barroso
- 
- PA3884 Survival of patients with KRAS G12C mutated stage IV non-small cell lung cancer with and without brain metastases treated with immune checkpoint inhibitors**  
Anneloes L. Noordhof (Leeuwarden, Netherlands), Esther M. Swart, Ronald A. M. Damhuis, Peter W. A. Kunst, Dirk K. M. De Ruysscher, Lizza E. L. Hendriks, Wouter H. Van Geffen, Mieke J. Aarts
- 
- PA3885 Nationwide real-world overall survival in advanced EGFR mutated NSCLC using different TKI.**  
Rolof G.P. Gijtenbeek (Leeuwarden, Netherlands), Ronald A.M. Damhuis, Anthonie J. Van Der Wekken, Lizza E.L. Hendriks, Harry J.M. Groen, Wouter H. Van Geffen
- 
- PA3886 Lung cancer associated to idiopathic pulmonary fibrosis: prediction ranking and data mining analysis**  
Giulia Maria Stella (Pavia (PV), Italy), Sara Lettieri, Silvia Mancinelli, Lucia Del Frate, Anisa Cala, Chandra Bortolotto, Davide Piloni
- 
- PA3887 Impact of COPD on lung cancer symptom burden: A population-based study**  
Stacey J Butler (Toronto, Canada), Alexander V Louie, Rinku Sutradhar, Lawrence Paszat, Dina Brooks, Andrea S Gershon
- 
- PA3888 HIV accelerates the development and progression of lung cancer: a single-centre prospective study**  
Raisa Bhikoo (Cape Town, South Africa), Brian Allwood, Elvis M Irusen, Coenraad Fm Koegelenberg
- 
- PA3889 The Impact of COVID-19 on Lung Cancer diagnoses and treatment at St George's Hospital, London**  
Praveen Natarajan (London, United Kingdom), Eunice Xing, Danyal Jajbhay, Jamie Arberry, Jessica Gates, Jon Panaguiton, Eilish Yarham, Hassan Ahmed, Roshan Siddique, Raminder Aul, Yee Ean Ong, Adrian Draper
- 
- PA3890 Has the covid pandemic influenced the diagnosis of patients with lung cancer?**  
Imanol Gonzalez Muñoz (Barakaldo, Spain), Jone Solorzano Egurbide, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gonzalez Quero, Edurne Echevarria Guerrero, Laura Cortezon Garces, Teresa Bretos Dorronsoro, Larraitz Garcia Echeberria
- 
- PA3891 Impact of coronavirus disease 2019 on the clinical course of thoracic malignancies**  
Osamu Kanai (Kyoto, Japan), Takanori Ito, Zentaro Saito, Takuma Imakita, Issei Oi, Yuki Yamamoto, Kohei Fujita, Masayuki Hashimoto, Hiromasa Tachibana, Satoru Sawai, Tadashi Mio
- 
- PA3892 Clinical Profile and Outcomes of Patients with Primary Intrathoracic Cancer who were admitted due to COVID 19 at Lung Center of the Philippines**  
IVARRENE CAHINDE (PALO, Philippines), John Carlo Custodio, Guia Elena Ladrera

**PA3893** **Late Breaking Abstract - Did changes in referral pathways during the Covid 19 pandemic influence lung cancer diagnosis and staging**  
Zanfur Khan (Shiple, United Kingdom), Kwee Yen Goh, Abhishek Gupta, Sanjay Kumar

**PA3894** **Metastatic lung cancer: another symptom of Long COVID?**  
Rebecca Evans (London, United Kingdom), Rohan Pancharatnam, Burhan Khan

PS-16 in poster area

Session 383

08:00 - 09:30

Poster session: Basic mechanism and novel treatment targets in pulmonary fibrosis

Disease(s) : **Interstitial lung diseases**

Method(s) : Cell and molecular biology Physiology Pulmonary function testing Imaging

Tag(s) : Basic science, Translational

Chairs : ARGYRIS TZOUVELEKIS (Patras, Greece), Vanesa Vicens Zygmunt (Castelldefels (Barcelona), Spain)

**PA3895** **Impact of Bifidobacterium longum BB536 on nausea caused by pirfenidone in a mouse model of pellagra**  
Koji Kuronuma (Sapporo, Japan), Natsumi Susai, Takeshi Yoshioka, Atsushi Saito, Hirofumi Chiba

**PA3896** **Fc $\alpha$ B1/FOXO1 axis regulates GLUT1-mediated mitochondrial oxidative stress and metabolic reprogramming in angiotensin II-induced fibroblast activation**  
Wei Wang (Guangzhou, China), Ying Meng

**PA3897** **Novel waveform analysis reveals persistent pathophysiological changes in rodent model of pulmonary fibrosis**  
Maria Volovaya (London, United Kingdom), Miquel Serna Pascual, Yujia Wu, Philip Aston, Carolyn Lam, Aileen Milne, Mary McElroy, Manasi Nandi

**PA3898** **Regenerative capacity of alveolar type 2 cells is proportionally reduced following disease progression in IPF-derived organoid cultures**  
Hyeon Kyu Choi (Souel, Republic of Korea), Ju Hye Shin, Mi Hwa Shin, Ala Woo, Sang Hoon Lee, Eun Young Kim, Hyo Sup Shim, Ha Eun Kim, Joo Hyeon Lee, Chul Hoon Kim, Moo Suk Park

**PA3899** **Abnormal phosphorylation of Per2 induces myofibroblast transformation and promotes the development of pulmonary fibrosis**  
Mei Chen (Chengdu (Sichuan), China), Lian Liu

**PA3900** **Data-driven processing of electronic medical record (EMR) and serum exosome proteomics data of idiopathic pulmonary fibrosis (IPF) patients identified pathological networks and its regulatory molecules**  
Mari Nogami-Itoh (Ibaraki-shi, Japan), Masataka Kuroda, Yoshito Takeda, Yuya Shirai, Takatoshi Enomoto, Jun Adachi, Sadao Kurohashi, Eiji Aramaki, Toshihiro Takeda, Yasushi Matsumura, Masahiro Yanagawa, Yayoi Natsume-Kitatani, Kenji Mizuguchi, Naonori Ueda, Atsushi Kumanogoh

**PA3901** **Bleomycin does not directly cause fibrosis in precision-cut lung slices, PCLS**  
Satoshi Kanazawa (Nagoya, Japan), Yoko Miura

**PA3902** **A multicenter study of extracellular vesicles profile in bronchoalveolar lavage from patients affected by IPF, HP and sarcoidosis**  
Miriana d'Alessandro (Siena, Italy), Sara Gangi, Piera Soccio, Elisabet Cantó, Ruben Osuna, Laura Bergantini, Paolo Cameli, Gaia Fabbri, Sara Croce, Giulia Scioscia, Giorgia Moriondo, Giusy Montuori, Matteo Fanetti, Fabrizio Mezzasalma, Diego Castillo, Donato Lacedonia, Silvia Vidal, Elena Bargagli

**PA3903** **Aging disturbed lysosomes to modulate efferocytosis-induced SPP1-expressing macrophage and inhibit pulmonary fibrosis reversal**  
Yue Zhang (Guangzhou, China), Hua Zhang

**PA3904** **Use of invasive lung function assessment (DSI/Buxco) to quantify changes in lung function parameters in a rat bleomycin model of lung fibrosis.**  
Mary McElroy (Edinburgh (Edinburgh), United Kingdom), Rachel Macfarlane, Jennifer Dowie, Kirsten Maclellan, Shyloh Solomon, James Baily

**PA3905** **Iron status and the risk of idiopathic pulmonary fibrosis: a mendelian randomization study**  
Jian Zhou (Chengdu, China), Menglin He, Rurong Wang, Xuehan Li

**PA3906** **Microcomputed tomography to study the in vivo development of IPF-like disease in conditional Nedd4-2 deficient mice**  
Dominik Leitz (Berlin, Germany), Philip Konietzke, Willi Wagner, Julia Duerr, Hans-Ulrich Kauczor, Marcus A. Mall, Mark O. Wielpütz



- PA3907** **Imatinib treatment for fibrotic lung disorders: ex vivo assessment on human lungs.**  
Sara Bozzini (Pavia, Italy), Cecilia Bagnera, Eleonora Bozza, Matteo Della Zoppa, Silvia Mancinelli, Federica Briganti, Giulio Melloni, Federica Meloni
- 
- PA3908** **A novel senolytic drug, ARV-825, ameliorates experimental lung fibrosis**  
Seidai Sato (Hamilton (ON), Canada), Kazuya Koyama, Hirohisa Ogawa, Kojin Murakami, Yuya Yamashita, Nandin-Erdene Danzan, Hiroki Bando, Keiko Haji, Nobuhito Naito, Hiroshi Kawano, Eiji Hara, Yasuhiko Nishioka
- 
- PA3909** **A clinical-stage RNAi therapeutic candidate for IPF mediates durable MMP7 silencing in nonhuman primates and human lung tissue**  
Tingting Yuan (VERONA, United States), Szymon Klossowski, Maria Afrazi, Holly Hamilton, Julia Hegge, James Hamilton, Tao Pei, Erik Bush
- 
- PA3910** **Hyaluronic acid decorated-liposome loaded with Imatinib (XHALIP): delivered intratracheally are effective in a Bleomycin model of lung fibrosis**  
Federica Meloni (Pavia (PV), Italy), Roberta Fusco, Veronica Codullo, Sara Bozzini, Eleonora Bozza, Cecilia Bagnera, Rosanna Di Paola, Silvia Arpicco, Salvatore Cuzzocrea
- 
- PA3911** **CycloZ reduces inflammation in bleomycin-induced idiopathic pulmonary fibrosis model mice.**  
Seoyeong Baek (Pohang, Gyeongbuk, Republic of Korea), Dohyun Lee, Jongsu Jeon, Onyu Park, Xiaoxu Li, Alessia Demasi, Gayeong Hur, Seung-Hyo Lee, Johan Auwerx, Hoe-Yune Jung
- 
- PA3912** **CycloZ improves pulmonary fibrosis in bleomycin-induced idiopathic pulmonary fibrosis model mice by modulating the pathogenic transcriptome.**  
Dohyun Lee (Pohang, Republic of Korea), Jongsu Jeon, Seoyeong Baek, Onyu Park, Xiaoxu Li, Alessia Demasi, Johan Auwerx, Gayeong Hur, Seung-Hyo Lee, Heo-Yune Jung
- 
- PA3913** **Preclinical evaluation of Ezetimibe for repurposing to pulmonary fibrosis.**  
Chanho Lee (Seoul, Republic of Korea), Se Hyun Kwak, Jisu Han, Ju Hye Shin, Yu Seol Lee, Jeong Su Park, Beom Jin Lim, Jin Gu Lee, Young Sam Kim, Song Yee Kim, Soo Han Bae
- 
- PA3914** **Intratracheal administration of a PROTAC with subnanomolar potency induces BRD4 degradation in the lung without systemic target engagement**  
Ulf Hedström (Mölnadal, Sweden), Antonio Piras, Rikard Pehrson, Jianming Liu, Amy Wilson, Karin Carlsson, Karin Ribbing, Cecilia Forss, Oliwia Slettengren, Madeleine Engsevi, Johan Jirholt, Martin Hemmerling

PS-17 in poster area

Session 384

08:00 - 09:30

Poster session: New kids on the interstitial lung disease block: COVID-19 and checkpoint inhibitors

Disease(s) : [Interstitial lung diseases](#) [Respiratory critical care](#) [Thoracic oncology](#)

Method(s) : Epidemiology Imaging Respiratory intensive care General respiratory patient care Pulmonary function testing Cell and molecular biology Pulmonary rehabilitation

Tag(s) : Translational

Chairs : Veronika Müller (Budapest, Hungary), Raquel Guillamat Prats (Badalona, Spain)

- PA3915** **Cytoimmunological pattern of bronchoalveolar lavage in interstitial lung pathology related to post-COVID-19 syndrome: attempt to assess the predictive significance.**  
Piotr Kapiński (Kraków, Poland), Grzegorz Przybylski, Ewa Wypasek, Ewelina Wędrowska, Tomasz Wandtke, Tomasz Senderek, Maciej Gagat
- 
- PA3916** **Effects of COVID-19 on telomere length and its relationship to pulmonary fibrosis**  
Alba Mulet Arabi (Valencia, Spain), Jaime Signes-Costa Miñana, Pilar González Cabo, Nora Juciute, Estrella Fernández Fabrellas, José Antonio Rodríguez Portal, José Antonio Ros Lucas, Ada Luz Andreu Rodríguez, Federico Pallardó Calatayud
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- PA3917** **The inflammatory subtypes and vivo models of checkpoint inhibitor pneumonitis after immunotherapy**  
Jiangzhou Du (Guangzhou, China), Tingyue Luo, Hangming Dong, Shaoxi Cai
- 
- PA3918** **Prevalence and Management of Post Covid fibrosis in tertiary care unit – A single centre experience**  
Yussef Haider (Manchester (Greater Manchester), United Kingdom), Sugeesha Wickramasinghe, Sharada Gudur, Thomas Southworth, Britney Vernon, Timothy Gatheral
- 
- PA3919** **Physical exercise in post-COVID patients**  
Jaume Bordas Martinez (barcelona, Spain), Pablo Carrasco, Miquel Berga, Ferran López, Héctor Sanchis-Gilabert, Anna Pulido-Expósito, Mariagna Sampere-Aymerich, Maria Jesús González-Frechina, Guadalupe Bermudo-Peloché, Maria Molina-Molina, Esther García-Lerma, Cristian Tebé-Cordomí, Guillaume Lefebvre, Rosa Planas-Balague, Vanesa Vicens Zygmunt

- PA3920** **Enhanced liver fibrosis (ELF) test as a biomarker of pulmonary fibrosis (PF) secondary to COVID-19 pneumonia.**  
Alexa Gabriela Nuñez Dubon (Barcelona, Spain), Cristina Aljama, Cristina Esquinas, Gerard Orriols, Georgina Farago, Galo Granados, Pablo Gabriel-Medina, Francisco Rodriguez-Frias, Mònica Pons, Marc Miravittles, Miriam Barrecheguren
- PA3921** **Role of virtual multidisciplinary team meetings in the post-COVID era: a global survey to evaluate the ILD diagnostic pathway**  
Graham Lough (Glasgow, United Kingdom), Rayid Abdulqawi, Gina Amanda, Katerina Antoniou, Arata Azuma, Ahmed Bayoumy, Milind Baldi, Jürgen Behr, Elisabeth Bendstrup, Demosthenes Bouros, Kevin Brown, Nazia Chaudhuri, Tamera J Corte, Vincent Cottin, Bruno Crestani, Kevin Flaherty, Ian Glaspole, Leticia Kawano-Dourado, Michael Keane, Martin Kolb, Fernando J Martinez, Maria Molina-Molina, Ferran Morell, Iñigo Ojanguren, Laurence Pearmain, Ganesh Raghu, Paola Rottoli, Stefan Cristian Stanel, Gabriela Tabaj, Carlo Vancheri, Brenda Varela, Bonnie Wang, Athol Wells, Pilar Rivera-Ortega
- PA3922** **SAFETY PROFILE OF PIRFENIDONE IN COVID19 RESPIRATORY DISTRESS SYNDROME**  
Marta Hernández Argudo (Barcelona, Spain), Guadalupe Bermudo Peloché, Maria Molina Molina, Vanesa Vicens Zygmunt, Guillermo Suarez Cuartin, Jaume Bordas Martinez, Salud Santos Perez, Santiago Bolivar Cuevas, Belen Del Rio Carrero, Joan Sabater Riera, Mari Paz Fuset Cabanes
- PA3923** **Long-COVID syndrome and interstitial lung disease following COVID-19**  
Dorottya Fesu (Erd, Hungary), Lorinc Polivka, Eniko Barczy, Marcell Foldesi, Gabor Horvath, Aniko Bohacs, Veronika Muller
- PA3924** **Characterization of fibrosis-associated pathways in human lung tissue samples in COVID-19 and fibrotic lung diseases**  
Cathrin Kodde (Berlin, Germany), Torsten Blum, Tilman Klassert, Svea Eichler, Sergej Griff, Dominik Driesch, Armin Frille, Lothar Jaensch, Marco Von Ham, Ana Salas Pérez, Susann Stephan-Falkenau, Hortense Slevogt, Torsten Bauer
- PA3925** **Neuroendocrine Cell Hyperplasia of Infancy (NEHI) during the Pandemic Era.**  
Vasilis Grammeniatas (Athens, Greece), Marios Papadopoulos, Elisavet Arkoumani, Efthymia Alexopoulou, Kostas Priftis, Kostas Douros
- PA3926** **The risk factors for developing post COVID-19 pulmonary fibrosis**  
Adriana Petronela Fildan (Constanta (Constanta), Romania), Roxana-Elena Cirjaliu, Doina-Ecaterina Tofolean, Elena Dantes, Oana Cristina Arghir, Laurențiu-Tony Hangan
- PA3927** **Comparative study assessing the pulmonary function sequelae in post Covid -19 patients during 1st and 2nd wave.**  
Rajesh Agrawal (Bareilly, India), Chinkita Agrawal, Javied Ahmad Malik
- PA3928** **Checkpoint inhibitor pneumonitis – a tertiary centre’s experience**  
Su Latt Phyu (Oxford, United Kingdom), Nicholas Coupe, Miranda Payne, Ling-Pei Ho, Emily Fraser, Rachel Hoyles, Peter Saunders
- PA3929** **Bronchoalveolar Lavage and post-COVID-19 interstitial lung disease**  
Sabrine Majdoub Fehri (Nabeul, Tunisia), Wafa Madi, Racem Ammar, Hamida Kwas
- PA3930** **Interstitial lung disease pattern in the upper lobes: etiologies, characteristics and prognosis**  
Houda Rouis (Ariana, Tunisia), BOUGACHA MARWA, Chirine Moussa, Line Kaabi, Feten Mhiri, Amel Khattab, Leila Bayahi, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
- PA3931** **Epidemiology and antifibrotic therapy of post-COVID-19 interstitial lung disease.**  
Oleh Yakovenko (Lutsk, Ukraine), Alexander Khanin, Sergej Griff, Tetiana Yakovenko, Eduard Khodosh, Yaroslav Dziublyk
- PA3932** **Late Breaking Abstract - Characterising cough in hypersensitivity pneumonitis**  
Zhe Wu (London, United Kingdom), David J.F Smith, Leda Yazbeck, Toby M Maher, Jaclyn A Smith, Philip L Molyneaux
- PA3933** **Late Breaking Abstract - Surfactant related chILD: a systematic review**  
Georgia-Emmanouela Dendrinou (ATHENS, Greece), Athanasios Kondylis, Maria Christodoulou, Konstantinos Douros
- PA3934** **Late Breaking Abstract - Inhaled BTI615 regulates lung fibrotic-niche via confining TGF-β1 pathway in bleomycin rat-model**  
Qiu Jiang (Chengdu, China), Rui Chen, Ling Xiao, Fei Wang, Suxia Shi, Ruijun Cheng, Yan Zhang, Na Wang, Pan Zhong, Jiabao Yue, Xiaomei Li, Yi Ding

PS-18 in poster area

Session 385

08:00 - 09:30

Poster session: New approaches in rare interstitial lung diseases

**Disease(s) :** [Interstitial lung diseases](#) [Airway diseases](#)

**Method(s) :** General respiratory patient care Epidemiology Cell and molecular biology Pulmonary function testing Imaging

**Tag(s) :** Basic science, Translational

**Chairs :** Cormac McCarthy (Dublin 4, Ireland), Elisabetta Renzoni (London, United Kingdom)

<b>PA3935</b>	<b>Efficacy of Jak inhibitors in children with intra-alveolar haemorrhage not related to COPA gene mutations</b> Anaïs LE (Paris, France), Thomas Perrin, Philippe Drabent, David Drummond, Philippe Reix, Marie-Louise Fremond, Alice Hadchouel
<b>PA3936</b>	<b>Cyclic AMP-dependent up-regulation of surfactant protein B in differentiating alveolar basal cells</b> Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler
<b>PA3937</b>	<b>Myeloid-dependent immunosuppressive features drive IPF progression</b> Dmytro Sirokha (Munich, Germany), Theodoros Kapellos, Valeria Viteri, Flavia Greiffo, Alana Namsaraeva, Lukas Heumos, Daniela Dietel, Marion Frankenberger, Oliver Eickelberg, Nikolaus Kneidinger, Ali Öender Yildirim, Herbert Schiller, Jürgen Behr, Isis Enlil Fernandez
<b>PA3938</b>	<b>WT SP-A restores abnormal oligomerization and secretion of mutant SFTPA1 and SFTPA2</b> Tifenn Desroziers (Paris, France), Yohan Soreze, Camille Fletcher, Serge Amselem, Florence Dastot Le Moal, Valérie Nau, Camille Louvrier, Marie Legendre, Sonia Karabina, Nadia Nathan
<b>PA3939</b>	<b>Altered regulation and pro-proliferative role of RNA binding proteins in idiopathic pulmonary fibrosis</b> Poornima Mahavadi (Gießen, Germany), Lisa Arnold, Martina Korfei, Andreas Guenther
<b>PA3940</b>	<b>Hypomorphic mutation in SFTPB leads to adult pulmonary fibrosis</b> Tifenn Desroziers (Paris, France), Grégoire Prévot, Aurore Coulomb, Valérie Nau, Florence Dastot-Le Moal, Aurélie Le Borgne, Serge Amselem, Marie Legendre, Nadia Nathan
<b>PA3941</b>	<b>Induced pluripotent stem cell derived type 2 alveolar epithelial cells: A novel platform for exploring telomere biology in pulmonary fibrosis</b> Mari Ozaki (Dublin 2, Ireland), Anj Schweikert, Fernanda Gutierrez-Rodrigues, Emma Groarke, Killian Hurley
<b>PA3942</b>	<b>Efficacy and safety of CFTR modulators in patients with interstitial lung disease caused by ABCA3 transporter deficiency</b> Mathilde Le Brun (Paris, France), Nadia Nathan, Marie Legendre, Justine Frija-Masson, Mwetty Onanga, Clairelyne Dupin, Lise Morer, Marie-Pierre Debray, Isabelle Fajac, Pierre-Régis Burgel, Bruno Crestani, Raphaël Borie
<b>PA3943</b>	<b>Necroptosis study in an epithelial in vitro model expressing surfactant protein A1</b> Ioannis Tomos (Athens (P. Faliro), Greece), Camille Fletcher, Tifenn Desroziers, Angela Arenas Garcia, Aphrodit Daskalopoulou, Camille Louvrier, Serge Amselem, Sonia Karabina, Nadia Nathan
<b>PA3944</b>	<b>Correlation between Quantitative 3D HRCT analysis and Lung Function in Diffuse Cystic Lung Diseases</b> Yasuhito Sekimoto (Dublin, Ireland), Evelyn Lynn, Brian Gaffney, Joseph Morrow, Marissa O'Callaghan, Amina Jouda, Jonathan D. Dodd, David Murphy, Michael P. Keane, Cormac Mccarthy
<b>PA3945</b>	<b>Characterization of fibrodysplasia ossificans progressiva (FOP) by respiratory oscillometry (Osc)</b> Anastasiia Vasileva (Toronto, Canada), Joyce K. Y. Wu, Lianne Tile, Irene Ho, Angela M. Cheung, Chung-Wai Chow
<b>PA3946</b>	<b>Flow cytometric evaluation of whole lung lavage (WLL) fluid from patients with pulmonary alveolar proteinosis (PAP): preliminary findings</b> Lutz-Bernhard Jehn (Essen, Germany), Victoria Berg, Artur Kibler, Eda Boerner, Julia Waelscher, Bettina Budeus, Marc Seifert, Christian Taube, Francesco Bonella
<b>PA3947</b>	<b>Correlation between childhood interstitial lung disease (chILD) phenotype and ABCA3 variants</b> Simona Taverna (Palermo, Italy), Giuseppe Cammarata, Nicola Ullmann, Annalisa Allegorico, Velia Malizia, Anna Masucci, Stefania La Grutta, Renato Cutrera
<b>PA3948</b>	<b>Machine learned decision tree for diagnosis of ASMD among patients with unexplained ILD</b> Francesco Bonella (Düsseldorf, Germany), Imre Noth, Wim A Wuyts, Pauline Guilmin, Margaux Törnqvist, Stefaan Sansen, Alexandra Dumitriu, Neha Shah, Maja Gasparic, Martin Montmerle
<b>PA3949</b>	<b>Interleukin-6 and krebs von den lungen-6 in lymphangioleiomyomatosis patients</b> Beatrice Perea (SIENA, Italy), Miriana D'Alessandro, Laura Bergantini, Sara Gangi, Benedetta Zilio, Paolo Cameli, Elena Bargagli
<b>PA3950</b>	<b>Implication of the complement cascade in the establishment of the pre-metastatic niche through the induction of the epithelial-to-mesenchymal transition by circulating exosomes in lymphangioleiomyomatosis (LAM)</b> Amina JOUIDA (Dublin, Ireland), Patrick Mcfadden, Grace Buckley, Evelyn Lynn, Marissa O'Callaghan, Yasuhito Sekimoto, Aurelie Fabre, Michael P Keane, Cormac Mccarthy

- PA3951** **DIAGNOSTIC VALUE OF KL-6 AND GDF-15 IN LYMPHANGIOLEIOMYOMATOSIS.**  
Marta Garcia Moyano (Barakaldo, Spain), Borja Santos Zorroza, Eva Tabernero Huguet, Francisco Javier Martinez Núñez, Vanessa Zorrilla Lorenzo, Beatriz González Quero, Beatriz Gómez Crespo, Leticia Ceberio Hualde, Edurne Echevarria Guerrero, Laura Cortezón Garcés, Raquel Perez Garay
- PA3952** **Cystatin C is associated with interstitial lung abnormalities features**  
Yuchen Zhang (Chengdu, China), Min Zhu, Huajing Wan, Fengming Luo
- PA3953** **Impact of familial character and/or the existence of a mutation in telomere-related genes in patients with pleuroparenchymal fibroelastosis**  
Alice Camboulive (Asnières-sur-Seine, France), Raphael Borie, Marjorie Latrasse, Marie-Pierre Debray, Diane Bouvry, Bruno Crestani, Nadia Nathan, Lucile Sese, Pierre-Yves Brillet, Caroline Kannengiesser, Hilario Nunes
- PA3954** **Determining the diagnostic yield of genomic testing in interstitial lung disease in Ireland**  
Jisha Jasmin (Dublin 2, Ireland), Wan Lin Ng, Anja Schweikert, Laura Durcan, Donough Howard, Gianpiero L. Cavalleri, Katherine A. Benson, Killian Hurley

PS-19 in poster area

Session 386

08:00 - 09:30

## Poster session: Risk factors to guide pulmonary hypertension management

Disease(s) : Pulmonary vascular diseases Interstitial lung diseases

Method(s) : Cell and molecular biology Epidemiology Pulmonary function testing General respiratory patient care Respiratory intensive care Physiology Public health

Tag(s) : Clinical

Chairs : Athénaïs Boucly (Le Kremlin Bicêtre, France), Vasile Foris (Graz, Austria)

- PA3955** **Identification of novel biomarkers for use in clinical trials in BMPRII pulmonary hypertension**  
Rowena Jones (CB2 0BD, United Kingdom), Nina Deliu, Sofia Villar, Mark Toshner
- PA3956** **Capillary NT-proBNP is a valid tool for remote risk assessment in pulmonary hypertension.**  
Harrison Stubbs (Glasgow, United Kingdom), John Cannon, Charlotte Durrington, Wendy Gin-Sing, Martin Johnson, Daniel Knight, Jim Lordan, John Wort
- PA3957** **Follow-up of Calcium-Channel Blockers Responders and Risk Factors of Treatment Failure**  
Antoine Beauvais (Paris 18e Arrondissement, France), Athénaïs Boucly, Marc Humbert, David Montani, Olivier Sitbon
- PA3958** **Four-strata risk assessment in pulmonary arterial hypertension (PAH) patients treated with selexipag in real-world settings: Insights from EXPOSURE**  
Tobias Lange (Bad Reichenhall, Germany), Pilar Escribano, Audrey Muller, Martina Fontana, Stefan Soderberg, Sean Gaine
- PA3959** **Biomarkers of angiogenesis in pulmonary arterial hypertension and pulmonary hypertension due to left heart diseases**  
Francesca Macera (Brussels, Belgium), Céline Dewachter, Laurence Dewachter, Emeline Hupkens, Antoine Bondue, Jean-Luc Vachiéry, Ana Roussoulières
- PA3960** **Comparison between REVEAL Lite 2.0 and COMPERA 2.0 for risk stratification in Pulmonary Arterial Hypertension**  
Sandeep Sahay (Houston, United States), Nelson Villasmil-Hernandez, Frederick Wang, Matthew Wooten, Duc Nguyen, Raymond Benza, Edward Graviss
- PA3961** **Phenotyping vasodilator responsiveness in idiopathic pulmonary arterial hypertension: any role for the cardiopulmonary exercise test?**  
gayathiri sivasubramaniam (London, United Kingdom), Andrea Baccelli, Gulammehdi Haji, Francesco Lo Giudice, Claire Weaver, Stefano Centanni, Luke Howard, Rachel Davies
- PA3962** **The MRC Dyspnoea scale may predict survival in pulmonary arterial hypertension.**  
Folawemimo Arogundade (Glasgow, United Kingdom), Melanie Brewis, Colin Church, Martin Johnson, Harrison Stubbs
- PA3963** **Clinical and economic burden of patients with PH-LD and PH-ILD in France**  
Vincent Cottin (Lyon, France), Olivier Sitbon, Nicoleta Petrica, Catia C. Proenca, Gabriela Bacchini Jeanneret, Miriam Fernandez Delgado
- PA3964** **Have Physicians Learned What's New in the 2022 ESC/ERS Pulmonary Hypertension Guidelines? Areas of Improvement and Areas of Further Education Need**  
Christy Rohani-Montez (Duillier, Switzerland), Anna-Maria Hoffmann-Vold, Göran Rådegran
- PA3965** **A patient preference study in pulmonary arterial hypertension (PAH): what matters most?**  
Wenjing Li (Allschwil, Switzerland), Michael Preiss, Monika Brand, Rachael DiSantostefano, Amélie Beaudet, Holger Gunz, Andrew Sadler, Ellen Janssen, Axel Mühlbacher

- PA3966** **Concordance between physician and patient reported presence of symptoms in patients with pulmonary arterial hypertension in the US, Europe and Japan**  
Rogier Klok (Twello, Netherlands), R James White, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch
- PA3967** **Higher circulating prolactin associates with lower mortality in pulmonary arterial hypertension**  
Wen-Hui Wu (Shanghai, China), Hui Zhao
- PA3968** **Lowering of Mean Pulmonary Arterial Pressure is a Prognostic Marker in Pulmonary Hypertension Patients treated with Subcutaneous Treprostinil**  
Roela Sadushi-Kolici (Wien, Austria), Inbal Shafran, Nika Skoro-Sajer, Christian Gerges, Irene Lang
- PA3969** **Health related quality of life in pulmonary arterial hypertension in the US, Europe and Japan**  
Rogier Klok (Twello, Netherlands), Carmine Dario Vizza, Julia Harley, Mark Small, R James White, Dominik Lautsch
- PA3970** **Biomarkers for diagnosis and disease severity in precapillary pulmonary hypertension.**  
Katarzyna Rososinska (Kirkel, Germany), Philipp Markwirth, Ralf Kaiser, Franziska Trudzinski, Bettina Weingard, Robert Bals, Heinrike Wilkens
- PA3971** **Prognostic impact of pulmonary diffusing capacity for carbon monoxide in pulmonary hypertension**  
Milan Mohammad (Østerbro, Denmark), Jacob Peter Hartmann, Jørn Carlsen, Jann Mortensen, Ronan Martin Griffin Berg
- PA3972** **Residual risk identified in routine non-invasive follow-up assessments in pulmonary arterial hypertension**  
Jonna Ostermann (Hamburg, Germany), Julian Pott, Jan K Hennigs, Kevin Roedl, Christoph Sinning, Lars Harbaum, Hans Klose
- PA3973** **Vasoreactivity in combined pre- and post-capillary pulmonary hypertension and survival**  
Eileen Harder (Boston, United States), Farbod Rahaghi, Miguel Divo, George Washko, Aaron Waxman
- PA3974** **Role of 6-MWT and NT-proBNP in the evaluation of survival in Pulmonary Arterial Hypertension**  
Chiara Milano (Saronno, Italy), Andrea Lombi, Lorenzo Volpiano, Giulia Pittalis, Marta Tundo, Riccardo Ripamonti, Paola Alfieri, Paola Faverio, Fabrizio Luppi, Giuseppe Paciocco

## PS-2 in poster area

## Session 387

08:00 - 09:30

## Poster session: Novelties in lung function testing

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Physiology Pulmonary function testing

Tag(s) : Clinical

Chairs : Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France), Raffaele Dellaca (Milano (MI), Italy)

- PA3975** **Comparing patient experiences of FOT and Spirometry - A survey**  
Shruti Sahasrabudhe (Pune (Maharashtra), India), Nagesh Dhadge, Kameshwar Rao, Harshvardhan Vhora, Reenkal Ahire
- PA3976** **A randomised controlled trial of self vs clinician-taught home spirometry**  
Caitlin Morgan (Bristol, United Kingdom), Daniel Higbee, Catherine Dixon, Emma Buckroyd, Huzaifa Adamali, Shaney Barratt, Rahul Shrimanker, Paul White, James Dodd
- PA3977** **Validation of the 2012 Global Lung Initiative spirometry prediction equations in an East African country**  
Hussein Mwangi (Dar es Salaam, Tanzania), Simon Mamuya, Bente Elisabeth Moen, Cecilie Svanes
- PA3978** **Study of the reversibility rate according to different definitions of ATS/ERS**  
Omayma Ben Lakhal (SFAX, Tunisia), Hela Cherif, Amal Chennoufi, Salma Mokadem, Mariem Triki, Ferdaous Yengui, Mohamed Ridha Charfi
- PA3979** **Impact of the 2021ATS/ERS update criteria on the bronchodilator responsiveness test result**  
Beatriz Martins (São Mamede De Infesta, Portugal), Pedro Amorim, Miguel Narciso, Anabela Marinho
- PA3980** **Bronchodilator responsiveness in Patients with Asthma and COPD: 2005 vs 2021 ERS/ATS criteria**  
Chaima BRIKI (ariana, Tunisia), Khoulood Kchaou, Balsam Barkous, Sirine Jamli, Saloua Ben Khamsa Jamelledine
- PA3981** **Temporal validation of a clinical prediction model for methacholine challenge testing**  
Mathieu Saint-Pierre (Ottawa, Canada), Joseph Abdunour
- PA3982** **Etiological and functional characterization of mixed ventilatory impairment in Tunisian patients**  
Balsam Barkous (ARIANA, Tunisia), Khoulood Kchaou, Soumaya Khaldi, Chaima Briki, Sirine Jamli, Saloua Ben Khamsa Jameledine
- PA3983** **Role of vitamin D in modulating inflammation in obesity-associated asthma.**  
Naouel Chibout (Constantine, Algeria), Mohamed Bougrida, Omar Chabati, Mohamed Kheireddine Bourahli

- PA3984 THE ROLE OF RESPIRATORY FUNCTION TESTS IN INFANTS WITH SUSPECTED AIRWAY OBSTRUCTION**  
Silvia Bloise (Roma (RM), Italy), Raffaella Nenna, Laura Petrarca, Maria Giulia Conti, Antonella Frassanito, Enrica Mancino, Luigi Matera, Greta Di Mattia, Domenico Paolo La Regina, Fabrizio Virgili, Elisa Gatti, Fabio Midulla
- 
- PA3985 Evaluating the validity and reliability of the EzPAP® manometer**  
Kerrie Saliba (Hammondville, Australia), Felicity Blackstock, Bredge Mccarren, Clarice Tang
- 
- Validation of a new portable system containing both FeNO analysis and spirometry measurement**  
Ke Huang (Beijing, China), Yong Li, Ting Yang
- 
- PA3986 Comparison of lung clearance index (LCI) in healthy children from a commercial open circuit, nitrogen washout device to data from published studies**  
Christopher Hine (Birmingham (West Midlands), United Kingdom), Maya Desai, Elizabeth Sapey, Jane C Davies, Prasad Nagakumar
- 
- PA3987 Lung clearance index as a marker of lung functional impairment in primary ciliary dyskinesia: preliminary results of a systematic review of the literature**  
Andreas M. Matthaiou (Drafi, Rafina-Pikermi, Attica, Greece), Alexandra Demetropoulou, Panayiotis Kouis, Panayiotis K. Yiallourous, Pinelopi Anagnostopoulou
- 
- PA3988 The feasibility of Lung Clearance Index (LCI) in healthy children using a commercial open circuit ultrasonic device**  
Christopher Hine (Birmingham (West Midlands), United Kingdom), Maya Desai, Georgina Kelly, Rasiah Thayakaran, Elizabeth Sapey, Jane C Davies
- 
- PA3989 The relationship between generic Health-related quality of life by the 36-Item Short Form Health Survey questionnaire (SF-36) and pulmonary function test**  
Punchalee Kaenmuang (Songkhla, Thailand), Detrakarn Ratuakorn, Sarayut Lucien Geater
- 
- PA3990 Comparison of lung volume measurements using body plethysmography, multiple-breath nitrogen washout and single-breath gas dilution methods**  
Matthew Hegewald (Murray, United States), Thomas Decato, Dave Collingridge
- 
- PA3991 Should a normal forced vital capacity be used to rule out a restrictive ventilatory disease?**  
Balsam Barkous (ARIANA, Tunisia), Fatma Guezguez, Arwa Yahyaoui, Amani Sayhi, Ines Ghannouchi, Sonia Rouatbi
- 
- PA3992 Can we rely on a decrease in forced vital capacity (FVC) to confirm a restrictive ventilatory defect (RVD)?**  
Amani SAYHI (tunis, Tunisia), Yosra Abdelhedi, Arwa Yahyaoui, Mariem Abdesslem, Khawla Mahmoudi, Nadia Lazreg, Fatma Guezguez, Sonia Rouatbi, Ines Ghannouchi
- 
- PA3993 Disease Severity and Ongoing Inflammation after Sars-Cov-2**  
Catherine Farrow (Westmead, Australia), Robert Robles, Terance Amis, Kristina Kairaitis

PS-20 in poster area

Session 388

08:00 - 09:30

Poster session: Ongoing imaging-related clinical studies in chronic obstructive pulmonary disease, asthma, interstitial lung disease and other pulmonary diseases

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Thoracic oncology](#)

Method(s) : Imaging Pulmonary function testing Surgery General respiratory patient care Endoscopy and interventional pulmonology

Tag(s) : Clinical

Chairs : Anna Kerpel-Fronius (Budapest, Hungary), Chair to be confirmed

- PA3994 Side-specific assessment of lung function in children with congenital diaphragmatic hernia - functional matrix pencil decomposition MRI as a promising diagnostic tool**  
Carmen Streibel (Bern, Switzerland), C Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Marion Curdy, Matthias Horn, Carmen Casaulta, Steffen Berger, Gabriela Marta Dekany, Elisabeth Kieninger, Andreas Bartenstein, Philipp Latzin
- 
- PA3995 Multisite Hyperpolarized 129Xe MRI Study of Pediatric Primary Ciliary Dyskinesia**  
Giles Santyr (Toronto, Canada), Wallace Wee, Brandon Zanette, Samal Munidasa, Sharon Braganza, Daniel Li, Rachel Eddy, Jonathan Rayment, Felix Ratjen, Sharon Dell
- 
- PA3996 Seven years of functional lung MRI in children: experiences of more than 900 matrix-pencil decomposition (MP-)MRI measurements in clinics and research**  
Carmen Streibel (Bern, Switzerland), C. Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Enno Stranzinger, Ben Brabandt, Marion Curdy, Yasmin Salem, Carmen Casaulta, Insa Korten, Sophie Yammine, Philipp Latzin, Elisabeth Kieninger

PA3997	<b>Higher pulmonary artery and vein volumes are associated with disease severity and mortality in smokers with and without COPD</b> A. K. A. L. Kwee (Utrecht, Netherlands), T. Van Der Veer, L. Gallardo Estrella, Eleni Rosalina Andrinopoulou, Jean-Paul Charbonnier, Harm A. W. M. Tiddens, Stephen M. Humphries, David A. Lynch, Pim A. De Jong, E. Pompe
PA3998	<b>Radiologic features of COPD exacerbations: quantitative analysis of thorax computerised tomography</b> Selin Ercan (Gothenburg, Sweden), Ali Canturk, Emre Ruhat Avcı, Naciye Sinem Gezer, Saliha Selin Ozuygur Ermis, Gozde Tokatli, Gokcen Omeroglu Simsek, Pinar Balci, Aylin Ozgen Alpaydin
PA3999	<b>Defining a CT phenotype of severe COPD patients who develop hypercapnia</b> Renzo Boersma (Groningen, Netherlands), Peter Wijkstra, Jorine Hartman, Marieke Duiverman
PA4000	<b>Correlation between frailty and reduced cortical thickness in Chronic Obstructive Pulmonary Disease.</b> Ayumi Fukatsu-Chikumoto (Ube-city, Japan), Tsunahiko Hirano, Shun Takahashi, Takuya Ishida, Tomihiro Donishi, Kazuyoshi Suga, Keiko Doi, Keiji Oishi, Shuichiro Ohata, Yoriyuki Murata, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga
PA4001	<b>Inter-disease variability in Dynamic Chest Radiography measurements and Pulmonary Function Tests in patients with Asthma, COPD and ILD</b> Rachel Burton (Liverpool, United Kingdom), Michael Cheung, Ryan Robinson, Fred Fyles, Thomas Fitzmaurice, Hassan Burhan
PA4002	<b>Comparison of HRCT and SPECT in the estimation of emphysema heterogeneity for endoscopic lung volume reduction</b> Eleni Papakonstantinou (Basel, Switzerland), Tim Jonas Hallenberger, Meropi Karakioulaki, Desiree Schumann, Michael Tamm, Daiana Stolz
PA4003	<b>Optimized detection of pulmonary emphysema on CT scans of lung cancer screening participants</b> Hailan Liu (Groningen, Netherlands), Daiwei Han, Marleen Vonder, Marjolein Heuvelmans, Jaeyoun Yi, Zhaoxiang Ye, Harry De Koning, Matthijs Oudkerk
PA4004	<b>The clinical significance of CT-Thorax in the assessment of difficult to treat Asthma</b> AMER ALMAGHRABI (BIRMINGHAM, United Kingdom), Ali Bahron, Julie Marsh, Adel Mansur
PA4005	<b>Needle based confocal laser endomicroscopy for real-time granuloma detection</b> Saskia van Heumen (Amsterdam, Netherlands), Tess Kramer, Lizzy Wijmans, Christopher Manley, Sandeep Bansal, Dawn Jeannerat, Martijn De Bruin, Peter Bonta, Jouke Annema
PA4006	<b>Sensitivity of chest x-ray for visualisation of one brand of indwelling pleural catheter</b> Sophie Edgell (Newcastle, Australia), John Harrington, Vineeth George
PA4007	<b>HRCT composite fibrosis score correlates with clinical and physiological parameters in IPF</b> Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lenne Collatz Lastrup, Saher Burhan Shaker
PA4008	<b>Significance of FDG uptake in nodes of IPF patients undergoing PET imaging</b> Jagdeep Sahota (Letchworth Garden City, United Kingdom), Balaji Ganeshan, Thida Win, Francesco Fraioli, Raymondo Endozo, Robert Shortman, Ashley M Groves, Joanna C Porter
PA4009	<b>Assessing the impact of local lung cancer screening on our regional interstitial lung diseases service</b> Raja Muthusami (Hereford, United Kingdom), Shiva Bikkamalla, Imran Hussain, Helen Stone
PA4010	<b>Endoscopic measurement of parenchymal near infrared radiation transmittance correlates with HRCT derived lung tissue density in lung fibrosis patients.</b> Jiří Votruba (Praha 2, Czech Republic), Zuzana Šestáková, Tomas Bruha
PA4011	<b>A missed opportunity - fibrosis on previous abdominal CTs in patients referred to an ILD clinic</b> Jude Wellens-Mensah (Perth, United Kingdom), Matthew Embley, Paul Cadden, Mudher Al-Khairalla, Peter Williamson, Mark Spears
PA4012	<b>Observer agreement in the diagnosis of interstitial lung diseases</b> Rebecca Saray Marchesini Stival (Rio Grande (RS), Brazil), Bruno Pedrazzani, Ariele Haagsma, Cristina Pellegrino Baena
PA4013	<b>Spirometry and chest HRCT abnormalities in symptomatic and asymptomatic patients with inflammatory bowel disease</b> Asmaa Mohammed Elshazly (Alexandria, Egypt), Rasha Dabees, Mahmoud Reda, Fahmy Hablas, Ahmed Samir, Nashwa Abdel-Wahab

PS-3 in poster area

Session 389

08:00 - 09:30

Poster session: Supporting patients with acute respiratory failure: new insight in acute non-invasive ventilation and high-flow nasal therapy

Disease(s) : **Airway diseases** Respiratory critical care Sleep and breathing disorders **Interstitial lung diseases**

Method(s) : General respiratory patient care Respiratory intensive care Palliative care Physiology

Tag(s) : Clinical

Chairs : Aylin Özsancağ Uğurlu (Istanbul, Turkey), Maxime Patout (Paris, France)

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| PA4014 | <b>Efficacy and safety of high flow nasal oxygen therapy compared to conventional oxygen therapy in postoperative pulmonary complications: a systematic review and metaanalysis</b><br>Jonni Fay Teves (Quezon City, Philippines), Noreen Ada Mangunan, Joann Kathleen Garcia  |
| PA4015 | <b>Ratio of oxygen saturation index and outcomes of high flow oxygen in post-extubated patients: a cohort study</b><br>THITI SRICHAROENCHAI (Bangkok, Thailand), Metanee Songrin   |
| PA4016 | <b>Systematic review of high-flow noninvasive support (HF) for respiratory failure (RF): identifying sources of survival variation with meta-regression.</b><br>Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black  |
| PA4017 | <b>The reverse flow in upper airways during asymmetrical nasal high flow ventilation</b><br>Natalia Kabaliuk (Christchurch, New Zealand), Zane Goggin, Stanislav Tatkov  |
| PA4018 | <b>The effect of the asymmetrical Optiflow nasal cannula on aerosol performance</b><br>Elena Fernández Fernández (Galway, Ireland), Marc Mac Giolla Eain, Mary Joyce, Ronan Mac Loughlin   |
| PA4019 | <b>Effective flow rates and decarboxylation differs between nasal high-flow devices</b><br>Jens Bräunlich (Leipzig, Germany), Hubert Wirtz   |
| PA4020 | <b>Nosocomial Pneumoniae in Patients with SARS-CoV-2 ARDS undergoing NIV</b><br>Federica Olmati (Roma, Italy), Alessandra Oliva, Pia Baiocchi, Angelo Petroianni, Corina Tomsa, Gianluca Paciucci, Flavio Mirabelli, Claudio Maria Mastroianni, Paolo Palange  |
| PA4021 | <b>Determinants of in-hospital mortality in Acute Non-invasive Ventilation (NIV): is door-to-mask time a strong predictor?</b><br>Ahmed Alqahtani (Birmingham, United Kingdom), Ellen Snell, Alastair Watson, Pearlene Antoine-Pitterson, Bethany Jones, Biman Chakraborty, Rahul Mukherjee  |
| PA4022 | <b>HACOR SCALE TO PREDICT FAILURE IN NONINVASIVE VENTILATION (NIV): CLINIMETRIC PROPERTIES</b><br>Adriana C. Lunardi (São Paulo (SP), Brazil), Matheus Pereira, Kaoany Moreira   |
| PA4024 | <b>Evaluation of a 'level of dependency withdrawal of NIVs framework' in end-of-life respiratory failure patients.</b><br>Mary Lafferty (Sydney, Australia), Mary Dunford, Heidi Green, Alexandra Smith, Caitlin Sheehan, Ritin Fernandez  |
| PA4025 | <b>Conservative oxygen supplementation during helmet CPAP therapy in patients with COVID-19 and respiratory failure: a pilot study</b><br>ALESSANDRA IACOVELLI (Bellegra, Italy), Maria Luisa Nicolardi, Valentina Baccolini, Federica Olmati, Ilenia Attilia, Pia Baiocchi, Letizia D'Antoni, Iliaria Menichini, Ambra Migliarini, Daniela Pellegrino, Angelo Petroianni, Daniel Piamonti, Angela Tramontano, Paolo Villari, Paolo Palange  |
| PA4026 | <b>Multicentric study of patients treated outside the intensive care unit with non-invasive respiratory therapies during the first five waves of COVID-19 in the Madrid Area</b><br>Daniel López Padilla (Madrid, Spain), Soledad López Martín, Luis Puente Maestú, Silvia Martín Bote, Beatriz Arias Arcos, Ariela Candelaria Cáceres, Elizabeth González Revilla, Roberto Larrosa Barrero, Andrea Albuja Hidalgo, Ana Santiago Recuerda, Ester Zamarrón De Lucas, Carlos Carpio Segura, Enrique Zamora García, Elena García Castillo, Elena Avalos Pérez-Urria, María Teresa Ramírez Prieto, José Andrés García Romero De Tejada, Raúl Moreno Zabaleta |
| PA4027 | <b>Mortality in admitted patients with ILD and respiratory failure: Observational analysis</b><br>Mudassar Razzaq Khan (Solihull (West Midlands), United Kingdom), Sameen Toor, Rachel Munding, Padmavathi Parthasarathy, Syed Geelani, Hassan Choudry, Fasihul Khan, Felix Woodhead, Charlotte Swales   |
| PA4028 | <b>Nasal High Flow Therapy (NHFT) for Acute Respiratory Failure (ARF) in Interstitial Lung Disease (ILD) patients</b><br>Cindy Eng (Leeds, United Kingdom), Shan Liung Liew, Laura Horgan, Muthu Thirumaran, Akshay Dwarakanath  |
| PA4029 | <b>Use of UCL Ventura (Wayrachi) device as CPAP or HFNC in patients with severe respiratory failure due to COVID 19 pneumonia</b><br>Cecilia Lucía Pérez Muñante (Lima, Peru), Edwin Hernando Herrera Flores, Mario Daniel Danilla Dávila, Shanery Norma Gonzáles Vargas, Tatiana Luz Mirella Coba Taboada, Nancy Pamela Tapia Mantilla, Marco Ricardo Pérez Valencia  |





- PA4046** **The senolytic effect of Dasatinib and Quercetin on cellular senescence in COPD in vitro and in vivo models**  
Jonathan Baker (London, United Kingdom), Genki Kimura, Yuki Nishimoto, Shyreen Hassibi, Yasuo Kizawa, Kazuhiro Ito
- PA4047** **REV-ERB $\alpha$  regulates cigarette smoke (CS)-induced macrophage polarization**  
Mengxin Cheng (Chengdu, China), Jun Hu, Zijian Zeng, Lijuan Gao, Ke Wang, Jun Chen, Tao Wang, Fuqiang Wen
- PA4048** **Azithromycin improves wound repair but does not change permeability of preterm airway epithelial cells**  
Samantha A. McLean (Nedlands (WA), Australia), Denby J. Evans, Anthony Kicic, Shannon J. Simpson
- PA4049** **The Effect of Bariatric Surgery on Serum Adiponectin, Leptin, Serum Interleukin 13 (IL-13), microRNA-192-5P (MIR-192-5P), and Asthma Control in Obese Asthma Patients**  
Fatma Gülsüm Karakas (erzurum, Turkey), Zeynep Ferhan Özşeker
- PA4050** **Smad3-mediated lncRNA HSALR1 enhances the non-classic signaling pathway of TGF- $\beta$ 1 in HBFs by binding to HSP90AB1**  
Erakng Yi (Guangzhou, China), Pixin Ran
- PA4051** **Preclinical analyses reveal spleen tyrosine kinase as regulator of pulmonary vasoconstriction**  
Christoph Tabeling (Berlin, Germany), Julia Herbert, Ekaterina Boiarina, Andreas C. Hocke, Olga Danov, Katherina Sewald, Birgitt Gutbier, Martin Russ, Philipp A. Pickerodt, Claudia Spies, Mei Li, Laura Michalick, Jörg Scheffel, Marcus Maurer, Heinz Fehrenbach, Norbert Suttorp, Armin Braun, Norbert Weissmann, Wolfgang M. Kuebler, Martin Witzentrath
- PA4053** **AhR controls pulmonary inflammation from cannabis smoke**  
Emily Wilson (Montreal, Canada), David Eidelman, Carolyn Baglole

## PS-5 in poster area

## Session 391

08:00 - 09:30

## Poster session: Inflammatory endotyping: the macrophage across disease areas

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Thoracic oncology](#) [Respiratory critical care](#)

Method(s) : Cell and molecular biology General respiratory patient care Pulmonary function testing Endoscopy and interventional pulmonology Epidemiology Public health Respiratory intensive care

Tag(s) : Basic science, Translational

Chairs : Niki L. Reynaert (Maastricht, Netherlands), Pauline BARDIN (Paris, France)

- PA4054** **LSC - 2023 - Transcriptomic analysis suggests susceptibility to lung diseases post Sars-Cov-2 infection**  
Deepesh Dhakad (Munich, Germany), Theodore S Kapellos, Gregor Ebert, Thomas M Conlon, Ali Önder Yildirim
- PA4055** **Peripheral blood monocyte count and outcomes in patients with interstitial lung disease: A systematic review and meta-analysis**  
Bohyung Min (Calgary, Canada), Amanda Grant-Orser, Kerri Johansson
- PA4056** **Altered cholesterol metabolic pathways in macrophages contribute to granuloma formation in progressive sarcoidosis**  
Clarice Lim (Vienna, Austria), Anna Redl, Ram Vinay Padey, Markus Hengstschläger, Georg Stary, Thomas Weichhart
- PA4057** **Anthraxosis particulate matter causes changes in macrophages inflammatory response and in expression of genes related to xenobiotics metabolism in co-culture of macrophages with BEAS-2B airway cells**  
Daniela Perroni Frias (São Paulo (SP), Brazil), Gabriela Lima Vieira, Juliana Smelan, João Paulo Amorim De Lacerda, Thais Mauad, Marisa Dolhnikoff, Mariangela Macchione
- PA4058** **Macrophages and their Stress Response – Environmental Triggers of Respiratory Diseases**  
Edith Katharina Plucinski (Hannover, Germany), Jan-Christopher Kamp, Jamie Soto, Xutong Sun, Stephen Black, Tobias Welte, Marius Hoepfer, Danny David Jonigk, Mark Kühnel
- PA4059** **Population pharmacokinetic (pop-PK) model of GB0139 as a tool to characterise the biomarker response in patients with idiopathic pulmonary fibrosis (IPF)**  
Vassilios Aslanis (Copenhagen, Denmark), Darius Schweinoch, Alison Mackinnon, Nikhil Hirani, Jie Wang-Jairaj, Brigitta Bodák, Anne Kümmel
- PA4060** **Vimentin serum biomarkers are differentially related to disease progression in idiopathic pulmonary fibrosis (IPF)**  
Filipa B Simões (Herlev, Denmark), Nils Hoyer, Thomas S Prior, Henrik Jessen, Peder Fredriksen, Morten Karsdal, Diana J Leeming, Elisabeth Bendstrup, Jannie M B Sand, Saher B Shaker
- PA4061**  **$\beta$ -glucan enhances LPS-induced acute lung injury via alveolar macrophages reprogramming**  
Renaud Prével (Bordeaux, France), Erwan Pernet, Sadek Abderrahmane, Shradha Wali, Kim Tran, Mina Sadeghi, Renata Sindeaux, Leonardo Jurado, Jérémie Poschmann, Maziar Divangahi

- PA4062** **Micheliolide exerts immunomodulatory effect by reducing Oxidative Stress-Induced mitochondrial dysfunction in acute lung injury**  
WenHan Li (guangzhou, China), Ying Meng
- 
- PA4063** **MAIT cells contribute to protection against bleomycin-induced lung tissue damage by promoting monocyte differentiation into type 1 conventional dendritic cells**  
Xiawei Zhang (Headington, Oxford, United Kingdom), Shuailin Li, Wojciech Lason, Sophie Morgan, Paul Klenerman, Timothy Hinks
- 
- PA4064** **PPAR $\gamma$  inhibits small airway remodeling through mediating the polarization homeostasis of alveolar macrophages in COPD**  
Dan Wang (Chongqing, China)
- 
- PA4065** **Alveolar macrophage carbon is associated with COPD severity.**  
James Baker (MANCHESTER, United Kingdom), Sophie Booth, Josiah Dungwa, Andrew Higham, Dave Singh, Simon Lea
- 
- PA4066** **Profiling inflammatory cell populations in endobronchial biopsies from patients with asthma COPD overlap (ACO)**  
Wenyang Lu (Newnham, Australia), Surajit Dey, Archana Vijay Gaikwad, Prem Bhattarai, Josie Larby, Collin Chia, Greg Haug, Heinrich C. Weber, Sally Young, Pabuddha S. Pathinayake, Peter A.B. Wark, Mathew Suji Eapen, Sukhwinder Singh Sohal
- 
- PA4067** **LSC - 2023 - Clinical significance of macrophage-lymphocyte rosettes(MLR<sub>os</sub>) formation in patients with bronchial asthma(BA)**  
Tamar Saralidze (Tbilisi, Georgia), Tamari Svanidze, Marina Noniashvili, Medea Jgarkava
- 
- PA4068** **Bedaquiline is effective in the treatment of Mycobacterium abscessus complex infection**  
Wei-Chang Huang (Taichung, Taiwan), Yi-Wen Huang, Chiou-Ying Yang, Hui-Chen Chen
- 
- PA4069** **Late Breaking Abstract - The Distinct Role of Itaconate in the Activation of Bone Marrow-derived Macrophages and Tissue-resident Alveolar Macrophages**  
Mengtian Shan (Shanghai, China), Linyu Ran, Huimin Wan, Quan Zhou, Shengjie Deng, Zhongliang Guo, Feilong Wang
- 
- PA4070** **Late Breaking Abstract - Large scale phenotyping of long COVID inflammation reveals mechanistic subtypes of disease.**  
Felicity Liew (London, United Kingdom), Claudia Efstathiou, Sara Fontanella, William Greenhalf, Matthew Richardson, Ruth Saunders, Rachael A. Evans, Louise V. Wain, Christopher Brightling, Lance Turtle, Ryan S. Thwaites, Peter J.M. Openshaw
- 
- PA4071** **Dysbiosis of lung commensal microbiota suppressed the progression of lung adenocarcinoma via spp1+ macrophages**  
jin jing (Chengdu, China), Hou Wang, Li Shiyue
- 
- PA4072** **Identifying the common denominator: Dectin-1 as a promising marker for macrophage modulation in lung cancer and fibrosis**  
Safaa Naiel (Burlington, Canada), Anna Dvorkin-Gheva, Megan Vierhout, Anmar Ayaub, Takuma Isshiki, Pareesa Ali, Spencer Revill, Amir Reihani, Pavithra Parthasarthy, Hemisha Patel, Ashgar Naqvi, Martin Kolb, Kjetil Ask

PS-6 in poster area

Session 392

08:00 - 09:30

Poster session: Telemedicine and diagnostic tools for sleep-disordered breathing

Disease(s) : Sleep and breathing disorders Airway diseases

Method(s) : Physiology Epidemiology Public health General respiratory patient care Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Ludger Grote (Göteborg, Sweden), Mafalda van Zeller (Porto, Portugal)

- PA4073** **Evaluation of sleep disordered breathing (OSA/OHS) service during the covid -19 pandemic in a west of ireland tertiary hospital**  
Mary Doherty (Dromore west, Ireland), Katherine Finan
- 
- PA4074** **Revolutionizing OSA management: a hybrid healthcare pathway powered by telemedicine improves patient outcomes and enhances healthcare sustainability**  
Ana Rita Peixoto Pedroso (Vila De Prado, Portugal), Joana Naia, Marta Silva, Diana Pimenta, Ana Luísa Vieira, Lurdes Ferreira
- 
- PA4075** **Are OSA patients really inclined to use telemedicine services? A single centre Italian survey**  
Francesco Fanfulla (Pavia (PV), Italy), Irene Risi, Paola Crotti, Elena Robbi, Simona Arcovio
- 
- PA4076** **Initiating CPAP with automatic modalities have no differences with conventional clinical practice**  
ignacio vicente (sabadell, Spain), Aida Muñoz-Ferrer, Borja Domnigo Cardenal, Cristina Esquinas López, Susana Pou Serramia, Juan Treviño Benavente, Toni Zapata Comas, Jorge Abad Capa

- PA4077 A retrospective review of the impact of virtual CPAP set-up on outcomes**  
Jo Leng Lum (London, United Kingdom), Chevanthy Gnanalingam, Sandip Banerjee
- 
- PA4078 TELEMONITORING SLEEP APNEA TREATMENT Telemonitoring sleep apnea treatment**  
María Aguado Agudo (Zaragoza, Spain), Jorge Rodriguez Sanz, Teresa Martín Carpi, Luisa Cabrera Pimentel, Marta Miranda
- 
- PA4079 Role of telemedicine (TM) in home positive airway pressure (hPAP) treatment: data from the MIMOSA (modern integrated management of obstructive sleep apnea [OSA] and/or chronic respiratory failure) study**  
Federica Di Giorgi (Caltavuturo (Palermo), Italy), Francesco Gambino, Massimiliano Desideri, Vanessa Lo Nano, Claudia Meschi, Alessandra Castrogiovanni, Chiara Cappiello, Marta Amata, Eva Palano, Laura Carrozzi, Maria Rosaria Bonsignore
- 
- PA4080 Telemonitoring of obstructive sleep apnoea (OSA) patients on positive airway pressure (PAP) therapy in Malaysia**  
Mei Ching Yong (Kuching (Sarawak), Malaysia), Yik Hon Ho, Caryn Sujean Lim, Nga Hung Ngu, Chan Sin Chai, Swee Kim Chan, Sze Shyang Kho, Siew Teck Tie
- 
- PA4081 Acceptance and cost-effectiveness of telemedicine in patients with obstructive sleep apnea: a single-center randomized controlled trial**  
Qiong Ou (Guangzhou, China), Guo Pei, Miaochan Lao, Longlong Wang, Yanxia Xu, Jiaoying Tan, Gaihong Zheng
- 
- PA4082 EFFECT OF TELEREHABILITATION ON SLEEP DISORDERS IN OBESE CHILDREN AND ADOLESCENTS DURING THE COVID-19 PANDEMIC: A QUASI-EXPERIMENTAL STUDY WITH FOLLOW-UP**  
Evelim Gomes (São Paulo (SP), Brazil), Josiane Luiz, Manoella Andrade, Luciana Sampaio, Dirceu Costa
- 
- PA4083 Quality assessment of sleep studies – comparison between face-to-face teaching and video demonstration**  
Joana Vieira Naia (Porto, Portugal), Diana Pimenta, Elisabete Santa Clara, Filipa Carriço, Daniela Rodrigues, Mafalda Van Zeller, Marta Drummond
- 
- PA4084 Inline inspiratory infrasound detection during bilevel mask ventilation**  
Neil Skjodt (Lethbridge (AB), Canada)
- 
- PA4085 CORRELATION BETWEEN CONNECTED BRACELETS AND POLYSOMNOGRAPHY IN SLEEP ASSESSMENT**  
Maha Ezzine (Fes, Morocco), Salma Animi, HALIMA ELBOUJAMAI, Mohamed Elbiaze, Mohamed Elbiaze, Amara Bouchra, Serraj Mounia, Mohamed Chakib Benjelloun
- 
- PA4086 Model for the selection of candidate patients for respiratory polygraphy**  
Javier Sánchez Masa (Palencia, Spain), María Ángeles Escobar Valero, Ana Pérez Dublang, Inés Salazar Lozano, Esther Alonso Sastre, Daniel Álvarez Gonzalez, Sara Barakat Fernández, María Covadonga Alonso Payo, Alba Daniela García Molina, Bea Cartón Sánchez, María Irene Alaejos Pascua, Enrique Alonso Mallo, Ana Isabel García Gonzalo, Francisco Javier Pagán Buzo, Ana María Andrés Porras, Jesús Andres De Llano, Andrea Crespo Sedano
- 
- PA4087 In what body positions do people with OSA sleep?**  
Belinda Rose Miller (Melbourne (VIC), Australia), Christiaan Yu, Renel Cuesta, Eldho Paul, Teanau Roebuck
- 
- PA4088 Night-to-night short-term variability in apnea-hypopnea index: analysis of the associated conditions**  
Renaud Tamisier (Grenoble, France), Jean-Benoit Martinot, Jean-Louis Pépin, Sébastien Bailly, Nhat-Nam Le-Dong
- 
- PA4089 Drug induced sleep endoscopy in obstructive sleep apnea**  
IGNACIO JARA (Madrid, Spain), Sara González, Ana Victoria Castillo, María Ponte, Winnifer Briceño, Ana Retegui, Diego Durán, Camen Rodríguez, Alberto Carreño, Rafael Barberá, Antonio Pedrera, Lourdes Montes, Andrea Pérez, Aldara García, Irene Cano, Eva Mañas
- 
- PA4090 Evaluation of anxiety and depression in patients with obstructive sleep apnea syndrome**  
oussama Tabka (Evry courcouronnes, France), yosra braham, Imen Touil, Elhem Chaouch, Oussema Tabka, Soumaya Bouchareb, Soumaya Boujneh, Maha Ben Mechlia, Leila Boussoffara, Jalel Kneni, Nadia Boudawara
- 
- PA4091 PSG differences in sleepy versus non-sleepy obstructive sleep apnea (OSA) patients**  
Izolde Bouloukaki (Heraklion (Crete), Greece), Theofilis Vouis, Antonios Velidakis, Violeta Moniaki, Eleni Mavroudi, Giorgos Stathakis, Michail Fanaridis, Sophia Schiza
- 
- PA4092 Obstructive sleep apnoea during rapid-eye movement sleep is predictive for response to treatment in patients with parasomnia**  
Fatima Saqib (Manchester, United Kingdom), Saad Aleem, Bryn Morris, Andras Bikov

PS-7 in poster area

Session 393

08:00 - 09:30

Poster session: Unravelling the potential of interleukin-5 pathways in asthma

**Disease(s) :** Airway diseases**Method(s) :** Public health General respiratory patient care Cell and molecular biology Pulmonary function testing Epidemiology**Tag(s) :** Clinical**Chairs :** Asger Sverrild (Valby, Denmark), Zuzana Diamant (Lund, Sweden)

- PA4093** **Mepolizumab improves small airway disease in severe eosinophilic asthmatics**  
Francesca Cefaloni (Rome, Italy), Cristina Boccabella, Luca Richeldi, Matteo Bonini
- 
- PA4094** **A retrospective cohort study to determine if Interleukin 5 inhibitors reduce oral corticosteroid burden in Severe Asthma in real life**  
Zoe Chan (Leeds, United Kingdom), Dinesh Saralaya, Janice Ting
- 
- PA4095** **Mepolizumab for the treatment of Eosinophilic Granulomatosis Polyangitis (EGPA) at Jersey General Hospital: A case review series; clinical features, diagnostic tests and management.**  
Kesavaperumal Vijayasaratha (Birmingham, United Kingdom), Duarte Vieira, Karen Hughes, Elisabete Da Silva
- 
- PA4096** **Mepolizumab and Benralizumab: new therapeutic perspectives for Severe Eosinophilic Asthma and Eosinophilic Granulomatosis with Polyangiitis**  
Paola Scarano (Roma, Italy), Cecilia Cisternino, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Alessia Steffanina, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani
- 
- PA4097** **Long-term effectiveness of Mepolizumab in patients with refractory severe eosinophilic asthma.**  
Victor García García (Sevilla, Spain), BELEN Muñoz Sánchez, Francisco Javier Alvarez Gutiérrez, Juan Francisco Medina Gallardo, Auxiliadora Romero Falcón, María Victoria Maestre Sánchez, Ana Gomez Bastero Fernández, Stefan Cimbollek, Julio Delgado Romero, Ana Ruiz Bernal, Marta Ferrer Galvan
- 
- PA4098** **Real-world effectiveness and characteristics of Super-Responders to Mepolizumab and Benralizumab in severe eosinophilic asthma and EGPA**  
Andrea Portacci (Taranto, Italy), Raffaele Campisi, Enrico Buonamico, Santi Nolasco, Corrado Pelaia, Nunzio Crimi, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiaffa, Giulia Scioscia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papi, Alessandra Tomasello, Nicola Scichilone, Girolamo Pelaia, Claudia Crimi, Giovanna Elisiana Carpanano
- 
- PA4099** **Disease remission in severe asthma patients on mepolizumab treatment and its duration after treatment discontinuation.**  
Piotr Damiński (Lodz, Poland), Piotr Kuna, Maciej Kupczyk
- 
- PA4100** **Switching things up: experience of second line anti-interleukin-5 therapy for severe asthma**  
Fred Fyles (Liverpool, United Kingdom), Amy Nuttall, Hannah Joplin, Laura Watkins, Hassan Burhan
- 
- PA4101** **The experience of reslizumab treatment for frequent relapsing chronic eosinophilic pneumonia accompanying asthma: a case series**  
Seung-Eun Lee (Seoul, Republic of Korea), Won-Jin Lee, Eun-Jeong Son, Tae-Hwa Kim, Doo-Soo Jeon, Yun-Seong Kim
- 
- PA4102** **Implementation of the FEOS score in patients with severe eosinophilic asthma treated with Reslizumab.**  
Katuska Herminia Liendo Martinez (Madrid, Spain), Crishian Alonso Correa Gutierrez, Stephany Ivonne Briones Alvarado, Manuel Mor Martínez, Luis Puente Maestu, Julia García De Pedro
- 
- PA4103** **Efficacy of Mepolizumab in a cohort of patients with severe eosinophilic asthma after 5 years of treatment: a single centre study**  
Gerardo Nazzaro (Caserta, Italy), Antonio Caso, Ferdinando Damato, Alessandra Bruno, Lorena Gallotti, Anna Agnese Stanzola
- 
- PA4104** **Outcomes of blocking IL-5 in severe asthma elderly patients**  
David Bañas Conejero (Madrid, Spain), Eva Martínez Moragón
- 
- PA4105** **Benralizumab effectiveness in patients with severe asthma regardless of prior biologic use: A real-world Canadian experience**  
Sheena Kayaniyil (Mississauga, Canada), Parameswaran Nair, Charles St. Pierre, Katherine Osenenko, Tina Li, Karissa Johnston, Gina Lacuesta, Irfan Khan, Syed Anees, Yew Hon Lai, Parisa Rahimi, Vivek Dhawan, Delbert Dorscheid, Andréanne Côté
- 
- PA4106** **Impact of age on the efficacy of mepolizumab in severe uncontrolled asthma**  
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Marina Blanco-Aparicio, Juan-Jose Nieto-Fontarigo, Nagore Blanco-Cid, Coral Gonzalez-Fernandez, Mar Mosteiro-Añon, Uxio Calvo-Alvarez, Luis Perez-De-Llano, Maria-Dolores Corbacho-Abelaira, Luis Dominguez-Juncal, Carlos Crespo-Diz, Raquel Dacal-Quintas, Abel Pallares-Sanmartin, David Dacal-Rivas, Raquel Ruiz-Ferreras, Francisco-Javier Salgado
- 
- PA4107** **Retrospective study to assess response to benralizumab in elderly asthma patients**  
Eve Coleborn (Bristol, United Kingdom), Elizabeth Gamble, Catherine Hyams

- PA4108 Evaluation of the effects of Benralizumab on Nasal Inflammation in Severe Eosinophilic Refractory Asthma and Nasal Polyposis**  
Claudio Candia (Naples, Italy), Francesco Coppa, Maria D'Amato, Debora Paris, Annabella Tramice, Pasquale Ambrosino, Antonio Molino, Antonino Di Stefano, Andrea Motta, Mauro Maniscalco
- PA4109 Asthma outcomes in patients (pts) with severe eosinophilic asthma (SEA), with and without comorbid chronic rhinosinusitis with nasal polyps (NP), treated with benralizumab in the real-world XALOC-1 study**  
Alicia Padilla Galo (Malaga, Spain), Girolamo Pelaia, Claudia Loureiro, Justin Kwiatek, Trung N. Tran, Silvia Boarino, Sheena Kayaniyil, Javier Nuevo, Michael Watt, Marisa Pardo, Vivian H. Shih, David Cohen, Anat Shavit, Benjamin Emmanuel, David J. Jackson, Parameswaran Nair
- PA4110 Real-world benralizumab effectiveness in patients with severe eosinophilic asthma on a 3 year follow up.**  
Giulia Lo Muzio (Roma, Italy), Olimpia Calò, Cecilia Cisternino, Paola Scarano, Arianna Sanna, Francesca De Filippis, Alessia Steffanina, Paolo Palange, Elda Graziani
- PA4111 Late Breaking Abstract - Anti-IL-5 therapy is associated with sustained improvement in FEV1 in severe eosinophilic asthma patients.**  
Nathan Blekic (Uccle, Belgium), Alain Van Muylem, Jean-Pierre Makhoul, Amaryllis Haccuria, Andrei Malinowski, Alain Michils
- PA4112 Late Breaking Abstract - Durability of response after 96 weeks of treatment with benralizumab: results from the Italian ANANKE study**  
Silvia Boarino (Basiglio (MI), Italy), Giorgio Walter Canonica, Maria Aliani, Elena Altieri, Pietro Bracciale, Luisa Brussino, Maria Filomena Caiaffa, Paolo Cameli, Cristiano Caruso, Stefano Centanni, Maria D'Amato, Fausto De Michele, Stefano Del Giacco, Fabiano Di Marco, Francesco Menzella, Girolamo Pelaia, Paola Rogliani, Micaela Romagnoli, Pietro Schino, Jan Walter Schroeder, Gianenrico Senna, Andrea Iurlaro, Giulia Manfrini, Alessandra Vultaggio

## PS-8 in poster area

## Session 394

08:00 - 09:30

## Poster session: Novel research data on asthma management and clinical applications

Disease(s) : **Airway diseases**

Method(s) : Epidemiology General respiratory patient care Pulmonary function testing Cell and molecular biology Imaging Physiology

Tag(s) : Clinical

Chairs : Vibeke Backer (Copenhagen, Denmark), Manali Mukherjee (Hamilton (ON), Canada)

- PA4113 Use of short synacthen testing to detect iatrogenic adrenal insufficiency among severe asthma patients**  
Fred Fyles (Liverpool, United Kingdom), Hannah Joplin, Amy Nuttall, Laura Watkins, Hassan Burhan
- PA4114 Severe asthma care trajectories in the French RAMSES cohort.**  
Camille Taillé (Paris, France), Jeanne-Marie Perotin, Nicolas Just, Gilles Devouassoux, Cécile Chenivresse, Arnaud Bourdin, Gilles Garcia, Pascal Chanez, Philippe Bonniaud, Amel Boudjemaa, Christel Saint Raymond, Toufik Didi, Antoine Burnier, Pauline Roux, Cyril Maurer, Maud Russier, Nathalie Freymond, Colas Tcherakian, Lisa Gauquelin, Sylvie Guillo, Candice Estellat
- PA4115 Early effects of anti-IL4R on cognitive functions in patients with severe asthma.**  
Charlotte Bernhoff (Copenhagen, Denmark), Andreas Elleby Jespersen, Nanna Dyhre-Petersen, Emilie Johanning Bari, Kamilla W Miskowiak, Celeste M Porsbjerg
- PA4116 Dupilumab is effective in real-life severe asthma patients with smoking history**  
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Robab Breyer-Kohansal, Wolfgang Pohl
- PA4117 Extent and impact of SABA inhaler overuse among asthma patients in India**  
Sundeep Santosh Salvi (Pune (Maharashtra), India), Raja Dhar, Viswesvaran Balasubramanian, Meena Lopez, Vaishali Naik, Jaideep Gogtay
- PA4118 Adherence to inhaled corticosteroid therapy and treatment escalation of the Swedish asthma population**  
Sylvia Packham (Sollentuna, Sweden), Caroline Stridsman
- PA4119 Bronchodilator effect of oral doxofylline and procaterol in asthma: a randomized crossover study**  
Natthapon Noomon (Bangkok, Thailand), Narongkorn Saiphoklang, Pimchanok Patanayindee, Pitchayapa Ruchiwit, Orapan Poachanukoon
- PA4120 Intramuscular triamcinolone for access to biologic therapy in asthma- a retrospective cohort analysis**  
Alexander Chadwick (Preston, United Kingdom), Kathryn Prior, Aashish Vyas

PA4121	<b>Asthma control in Greek patients receiving FDC of Budesonide/Formoterol as maintenance and/or as-needed treatment. The NOTOS study</b> Maria Bertoli (Pikermi, Greece), Nikoletta Rovina, Konstantinos Samitas, Georgios Krommidas, Dimitrios Latsios, Alexandros Ginis
PA4122	<b>Characteristics of patients with asthma using single inhaler triple therapy (SITT) in the USA</b> Stephen G Noorduynd (Mississauga, Canada), Kristin Kahle-Wroblewski, Rosirene Paczkowski, Lydia Lee, Phani Veeranki, Mary Johnson, Afisi S Ismaila, Emmeline Igboekwe, Julie Nack, Noelle N Gronroos
PA4123	<b>Quality of life in Greek asthmatic patients receiving FDC Budesonide/Formoterol as maintenance and/or as-needed treatment. The NOTOS study</b> Maria Bertoli (Pikermi, Greece), Konstantinos Kostikas, Paschalis Steiropoulos, Nikolaos Kareklas, Panagiotis Boglou, Polyanthi Papanastasiou
PA4124	<b>Short-acting <math>\beta_2</math>-agonists over-prescription in patients with asthma: an Indian subset analysis of international SABINA III study.</b> Latha Sarma (Hyderabad, India)
PA4125	<b>Effectiveness and cost of a comprehensive severe asthma management strategy guided by airway inflammometry</b> Owen Treleaven (Hamilton, Canada), Sylvia Lauks, Parameswaran Nair, Terence Ho, Melanie Kjarsgaard, Chynna Huang, Katherine Radford, Nicola Calma, Carmen Venegas, Sarah Svenningsen, Manali Mukherjee, Anurag Bhalla, Huifang Lim, Michael Surette, Susan Wasserman, Gerard Cox
PA4126	<b>Biologic agents licensed for severe asthma: A systematic review and meta-analysis of randomised controlled trials</b> Dimitrios Potonos (Ioannina, Greece), Chris Kyriakopoulos, Athena Gogali, Georgios Markozannes, Vanesa Bellou, Georgios Ntritsos, Konstantinos Kostikas
PA4127	<b>Assessing ICS responsiveness in severe asthma using BDP/formoterol NEXThaler™ dose-counting</b> Hnin Wint Aung (Market Harborough, United Kingdom), Claire E Boddy, Eleanor Hampson, Mark Bell, Lauren Parnell, Jemma Metcalf, Kumaran Balasundaram, Anna Murphy, Shamsa Naveed, Peter Bradding
PA4128	<b>Real life biological therapy effectiveness in patients with severe eosinophilic asthma: a comparison with randomized trial</b> Olimpia Calò (Roma, Italy), Giulia Lo Muzio, Paola Scarano, Cecilia Cisternino, Veronica Capuano, Alessia Steffanina, Francesca De Filippis, Arianna Sanna, Maria Teresa Leporini, Paolo Palange, Elda Graziani
PA4129	<b>Does bronchodilator responsiveness depend on age in asthma?</b> Rim Kammoun (Sfax, Tunisia), Asma Haddar, Molk Maalej, Fatma Zahra Medyedali, Hana Trabelsi, Hela Zouari, Kaouthar Masmoudi
PA4130	<b>Late Breaking Abstract - Efficacy and safety of benralizumab in patients with severe uncontrolled asthma despite ICS-LABA: a randomised, double-blind, placebo-controlled phase 3 trial in Asia (MIRACLE)</b> Kefang Lai (Guangzhou, China), Dejun Sun, Ranran Dai, Ronnie Samoro, Hae-Sim Park, Annika Åstrand, David Cohen, Maria Jison, Vivian Shih, Viktoria Werkström, Yuhui Yao, Yajuan Zhang, Wenyang Zheng, Nanshan Zhong
PA4131	<b>Late Breaking Abstract - Patients with severe eosinophilic asthma achieved remission over 2 years with benralizumab: Integrated analysis of the &gt;1000-patient, multinational, real-world XALOC-1 study</b> Girolamo Pelaia (Tiriolo (CZ), Italy), David J. Jackson, Parameswaran Nair, Benjamin Emmanuel, Trung N. Tran, Andrew Menzies-Gow, Michael Watt, Sheena Kayaniyil, Silvia Boarino, Javier Nuevo, Marisa Pardal, Anat Shavit, Vivian Shih, David Cohen, Claudia Loureiro, Alicia Padilla-Galo
PA4132	<b>Late Breaking Abstract - An innovative inhaled solution of budesonide-cyclodextrin complex is safe and prevents the methacholine-induced hyperreactivity in asthmatics better than a commercial budesonide suspension: a breezy story (BOREAS).</b> Didier Cataldo (Liege, Belgium), Marie-Astrid Albert, Natacha Rocks, Najate Ait Mahmoud, Ludivine Petit, Paul Maes
<b>PS-9 in poster area</b>	
<b>Session 395</b>	
<b>08:00 - 09:30</b>	
<b>Poster session: Clinical aspects in chronic obstructive pulmonary disease</b>	
<b>Disease(s) :</b> <a href="#">Airway diseases</a>	
<b>Method(s) :</b> General respiratory patient care Epidemiology Imaging Pulmonary function testing Public health Pulmonary rehabilitation Physiology	
<b>Tag(s) :</b> Clinical	
<b>Chairs :</b> Pavol Pobeha (Košice, Slovakia), Mona Bafadhel (London, United Kingdom)	
PA4133	<b>Prognostic value of the GOLD 2023 classification system.</b> Kristian Brat (Brno, Czech Republic), Michal Svoboda, Jaromir Zatloukal, Marek Plutinsky, Eva Volakova, Patrice Popelkova, Barbora Novotna, Tomas Dvorak, Vladimir Koblizek

- PA4134** **The joint effect of different diet styles on mortality in chronic obstructive pulmonary disease**  
Jiun-Long Wang (Taichung, Taiwan), Yi-Ting Tsai, Chia-Lin Lee
- 
- PA4135** **The CCQgraphic: a solution for patients with COPD with adequate or limited health literacy.**  
Erlijn Tiel Groenestege (Willemstad, Curaçao), Bea Sloothaak, Iris Van Geer, Aimee Van De Maat, Naomi Coenraad, Ellen Van Heijst, Natascha Huijzer-Van Reenen, Kaying Kan, Marjan Kerkhof, Cindy Lentjes, Thys Van Der Molen, Maret Zonneveld, Johannes In 't Veen, Janwillem Kocks
- 
- PA4136** **CT indices of airway wall thickness in chronic bronchitis, COPD and healthy controls**  
Huai Chen (Guangzhou, China), Hongjia Meng, Tingting Xia, Xuefei Li, Tiantian Liu, Sarah Lee, Chenjuan Gu, Shuling Hu, Nanshan Zhong, Paul Jones
- 
- PA4137** **Dynapenia and sarcopenia are two different phenotypes in patients with COPD: a prospective cohort study**  
Shih-Yu Chen (Hsinchu, Taiwan), Jung-Yien Chien, Chong-Jen Yu
- 
- PA4138** **Anxiety and depression in Chronic Obstructive Pulmonary Disease: a systematic review and meta-analysis**  
Alina Miah (READING, United Kingdom), Ruihua Hou
- 
- PA4139** **Initial findings from two US-based early COPD cohorts: MAP COPD and SOURCE**  
Wassim Labaki (Ann Arbor, United States), Catherine A. Meldrum, Susan Murray, Craig J. Galban, Ella A. Kazerooni, R. Graham Barr, Igor Barjaktarevic, Russell P. Bowler, Alejandro P. Comellas, Christopher B. Cooper, David J. Couper, Gerard J. Criner, Mark T. Dransfield, Nadia N. Hansel, Eric A. Hoffman, Jerry A. Krishnan, Robert Paine Iii, Stephen P. Peters, Prescott G. Woodruff, Jeffrey L. Curtis, Fernando J. Martinez, Meilan K. Han
- 
- PA4140** **AI-text mining for the identification of informative COPD subtypes**  
Florent Baty (St. Gallen, Switzerland), Laura Rechsteiner, Martin Brutsche
- 
- PA4141** **Distance covered in the six-minute walk test in COPD patients as a predictor of mortality: A cohort study**  
Audrey Borghi Silva (São Carlos (SP), Brazil), Izadora Dourado, Cássia Goulart, Aldair Darlan Santos-De-Araújo, Renan Shida Marinho, MURILO OLIVEIRA, Renata Mendes
- 
- PA4142** **The importance of image standardization through kernel conversion of COPD in a multicenter cohort**  
Mira Cho (Seoul, Republic of Korea), Youlim Kim, Hyun Lee, Seong Yong Lim, Jae Jeong Shim, Ki Suck Jung, Kum Ju Chae, Kwang Ha Yoo
- 
- PA4143** **COPD Virtual Wards offer more than just home comforts**  
Andrew Barlow (Chalfont St. Giles, United Kingdom), Michael Shaw, Neel Kapoor, Harry Mitchell, Eleanor Zinkin, Rahul Mogal, Ajitha Jayaratnam, Jonathan Phimister, Maria Buxton, Hannah O'Keeffe, Niall Keenan, Dominique Auger, Michael Van Der Watt
- 
- PA4144** **Characterising radiological abnormalities in early COPD**  
Andrew Ritchie (London, United Kingdom), Gavin Donaldson, Eric Hoffman, James Allinson, Chloe Bloom, Charlotte Bolton, Aaron Braddy-Green, Gourab Choudhury, Sarah Gerard, Junfeng Guo, Luana Alves-Moreira, Lorcan Mearney, Elizabeth Sapey, Rob Stockley, Dave Singh, Tom Wilkinson, Malin Fageras, Kristoffer Ostridge, Olaf Joens, Enrica Bucchioni, Chris Compton, Paul Jones, Karen Mezzi, Jorgen Vestbo, Peter Calverley, Jadwiga Wedzicha
- 
- PA4145** **COPD Assessment Test (CAT) Score according to the presence/absence of accelerated lung function decline in young adult smokers with normal FEV1**  
Aaron Braddy-Green (London, United Kingdom), Andrew I Ritchie, Jordina Mah, Dexter J Wiseman, Mairi A Macleod, James P Allinson, Gavin C Donaldson, Chloe Bloom, Charlotte Bolton, Gourab Choudhury, Luana Alves-Moreira, Lorcan Mearney, Elizabeth Sapey, Robert Stockley, Dave Singh, Tom Wilkinson, Malin Fageras, Kristoffer Ostridge, Olaf Jones, Enrica Bucchioni, Chris Compton, Paul Jones, Karen Mezzi, Jorgen Vestbo, Peter Ma Calverley, Jadwiga A Wedzicha
- 
- PA4146** **Etiotypes of persistent airflow obstruction in the general population in different age bins**  
Marie Grasl (Wien, Austria), Alvar Agusti, Caspar Schiffrers, Owat Sunanta, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal
- 
- PA4147** **Validation of the Smart Air spirometer and screening for chronic obstructive pulmonary disease**  
Abir Bouhamdi (Fez, Morocco), Nassiba Bahra, Yassine Chefchaou, Rajae Amiali, Btissam Essabahi, Mounia\* Serraj, Mohamed Chakib Benjelloun, Karima Elghazi, Bouchra Amara, Mohamed Elbiaz
- 
- PA4148** **Differences in drinking habits and educational level in men with and without COPD in a Danish rural population**  
Line Bjerrehave Nielsen (Aalborg, Denmark), Signe Juul Riddersholm, Ulla Møller Weinreich
- 
- PA4149** **Do social determinants of health and inequality in health influence the severity of chronic obstructive pulmonary disease?**  
Salih Yigit (Izmir, Turkey), Oguz Kilinc, Ahmet Naci Emecen, Bulent Kilic
- 
- PA4150** **CAT versus mMRC to allocate COPD patients to clinically relevant phenotypes identified using Classification and Regression Trees**  
Nicolas Roche (Paris, France), El-Hassane Ouailaya, Jean-Louis Paillasseur, Pierre-Régis Burgel



**PA4151 Preserved ratio but impaired spirometry (PRISm): Are these subjects different?**  
Lancelot Pinto (Mumbai, India), Ashwini Chawhan, Dhara Thakrar, Trupti Mane

**PA4152 Detection of and factors influencing medication adherence in patients with severe COPD**  
Maximilian Wollsching-Strobel (Köln, Germany), Anna Werner, Doreen Kroppen, Daniel Majorski, Friederike Magnet, Melanie Berger, Tim Mathes, Sarah Schwarz, Wolfram Windisch

## Gold Session 396 08:30 - 10:00

### Endoscopy session: Cutting-edge concepts for diagnosis of peripheral lesions: the future is here!

**Aims :** to present a practical demonstration of the novel and rapidly evolving techniques in the diagnosis of peripheral pulmonary opacities; to provide a step-by-step guide for performing the techniques and technologies demonstrated.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology Respiratory infections

**Method(s) :** Endoscopy and interventional pulmonology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Radiologist

**Chairs :** Amanda Dandanell Juul (Odense S, Denmark), Mohammed Munavvar (Preston (Lancashire), United Kingdom)

08:30	<b>Introduction</b> All Speakers	4153
08:35	<b>Augmented fluoroscopy</b> Amir Abramovich (Hasolelim, Israel)	4154
08:50	<b>Cone beam</b> Pallav L. Shah (London, United Kingdom)	4155
09:05	<b>Robotic bronchoscopy</b> Felix J.F. Herth (Heidelberg, Germany)	4156
09:20	<b>Bronchoscopic tumour ablation</b> Kelvin Lau (London, United Kingdom)	4157
09:35	<b>Discussion and Q&amp;A</b> All Speakers	4158

## Silver Session 397 08:30 - 10:00

### State of the art session: Paediatric

**Aims :** to discuss important topics in paediatric respiratory medicine such as: 1) treatment options for severe paediatric asthma, 2) an insight into neutrophilic inflammation following preterm birth and other relevant lung diseases, 3) management of persistent obstructive sleep apnoea (OSA) in children and 4) high-flow nasal cannula therapy in paediatric respiratory insufficiency;

**Disease(s) :** Paediatric respiratory diseases Respiratory infections Sleep and breathing disorders

**Method(s) :** General respiratory patient care Pulmonary function testing Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

08:30	<b>Therapeutic strategies in paediatric severe asthma</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands)	4159
08:45	<b>Neutrophilic inflammation throughout the ages</b> Rory Morty (Heidelberg, Germany)	4160
09:00	<b>Management of persistent OSA in children</b> An Boudewyns (Edegem (Antwerp), Belgium)	4161
09:15	<b>High-flow nasal cannula (HFNC) therapy for bronchiolitis and in continuous treatment for respiratory insufficiency</b> Padmanabhan Ramnarayan (London, United Kingdom)	4162

09:30 **Discussion and Q&A**  
All Speakers

4163

## Coral 4+5

## Session 398

08:30 - 10:00

### Symposium: Pulmonary embolism and its implication with other clinical respiratory settings and specialties

**Aims :** to provide an update on the management of PE in pregnancy; to describe the distinctive features of patients with lung cancer-associated thrombosis (CAT); to highlight the relationship between PE and obstructive sleep apnoea (OSA); and to provide an update about the role of residual pulmonary vascular obstruction (RPVO) in the assessment of the risk of venous thromboembolism (VTE) recurrences, as for patients' evolution with the newly suggested chronic thromboembolic pulmonary disease (CTEPD) syndrome; to provide an update about correct diagnosis and treatment in this population, which is crucial for all pulmonologists, who may be involved in many different steps (ruling out the diagnosis, managing some difficult cases, proposing secondary thromboprophylaxis, etc.). to provide an update about management, outcomes and phenotypes of patients with lung CAT; to present information about the relationship between OSA and PE that suggest a possible connection between OSA and abnormal haemostasias; to review current evidence about the association between OSA and PE, as well as PE prognosis in patients with OSA; to discuss the key role of respiratory physicians in the follow-up of patients with PE.

**Disease(s) :** Pulmonary vascular diseases Sleep and breathing disorders Thoracic oncology

**Method(s) :** General respiratory patient care Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs :** Yochai Adir (Haifa, Israel), Pilar Escribano- Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)

08:30 **Management of pulmonary embolism in pregnancy**  
Cécile Tromeur (Brest, France) 4164

08:45 **Distinctive feature of lung cancer-associated thrombosis**  
Luis Jara-Palomares (Sevilla, Spain) 4165

09:00 **Obstructive sleep apnoea and pulmonary embolism: what do we know and what do we need to know?**  
Alberto García Ortega (Valencia, Spain) 4166

09:15 **Role of residual pulmonary vascular obstruction in VTE recurrences and CTEPH**  
Olivier Sanchez (Paris, France) 4167

09:30 **Discussion and Q&A**  
All Speakers 4168

## Coral 3

## Session 399

08:30 - 10:00

### Symposium: The organ-wide reach of exercise in chronic respiratory disease A holistic approach

**Aims :** to explain the role of inter-organ crosstalk and cellular communication in relation to exercise; to describe the beneficial effects of exercise training on skeletal muscle; to explain how to identify persons with chronic respiratory disease (CRD) that need additional support during exercise training to have optimal organ-wide effects; to allow participants to engage in discussion on the controversial idea that exercise can regenerate the lung.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Cell and molecular biology Physiology Pulmonary rehabilitation

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs :** Silke Ryan (Dublin, Ireland), Matteo Bradicich (Zollikoberg, Switzerland), Jana De Brandt (Umeå, Sweden)

08:30 **Exercise: the role of inter-organ crosstalk and cellular communication**  
Ronan Berg (København N, Denmark) 4169

08:45 **Effect of exercise training on the muscle in CRD: success guaranteed!**  
Lorna Latimer (Rugby (Warwickshire), United Kingdom) 4170

09:00 **Helping out the muscle-brain axis during exercise in fibrosing interstitial lung disease: we are on our way!**  
Mathieu Marillier (Echirolles, France) 4171

09:15	<b>Patient's perspective</b> Jean-Michel Fourrier (Saint-Aubin-de-Medoc, France)	4172
09:20	<b>Effect of exercise training on lung regeneration in CRD: an illusion or a future reality?</b> Ulrik Winning Iepsen (Copenhagen, Denmark)	4173
09:35	<b>Discussion and Q&amp;A</b> All Speakers	4174

## Coral 1 Session 400 08:30 - 10:00

### Symposium: Prevention of tuberculosis

**Aims :** to present the latest evidence on the use of immunodiagnostic methods (interferon-gamma release assays (IGRAs) and tuberculin skin test) and preventive therapies for best clinical practice to prevent tuberculosis in adults.

**Disease(s) :** Paediatric respiratory diseases Respiratory critical care Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Radiologist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)

08:30	<b>Patient's perspective</b> Raffaella Scognamiglio (Milan, Italy)	4175
08:35	<b>How we prevent transmission once the case has been identified</b> Cécile Magis-Escurra (Nijmegen, Netherlands)	4176
08:50	<b>IGRAs or tuberculosis skin test? How do they compare for identification of individuals at risk of developing tuberculosis?</b> Francesca Saluzzo (Milano, Italy)	4177
09:05	<b>Effectiveness of tuberculosis preventive therapy by age and Mycobacterium tuberculosis infection status</b> Ibrahim Abubakar (London, United Kingdom)	4178
09:20	<b>The global roadmap for a new tuberculosis vaccine</b> Helen McShane (Oxford (Oxfordshire), United Kingdom)	4179
09:35	<b>Discussion and Q&amp;A</b> All Speakers	4180

## Coral 2 Session 401 08:30 - 10:00

### Hot topics: Preconception origins of respiratory disease and allergy: what about immunity and infections?

**Aims :** to provide an overview of the concept of preconception origins of respiratory disease and allergy with a specific focus on immunity and infectious disease; to provide an overview of the current epidemiological evidence and to provide insights into possible mechanisms; to provide an overview of the field and explain how exposures and individual factors may be able to affect respiratory health and allergy in future generations.

**Disease(s) :** Airway diseases Paediatric respiratory diseases Respiratory infections

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Medical Student, Respiratory critical care physician, Paediatrician, Scientist (basic, translational), Journalist

**Chairs :** Rafael E. de la Hoz (New York, United States), Ane Johannessen (Bergen, Norway)

08:30	<b>A general overview of the concept of preconception origins of respiratory disease: what is the epidemiological evidence so far?</b> Cecilie Svanes (Bergen, Norway)	4181
08:45	<b>The experimental view of how infections may impact health and disease across generations</b> William Horsnell (Exeter, United Kingdom)	4182

09:00	<b>Transgenerational epigenetic impacts of parental infection on offspring health and disease susceptibility</b> Anthony J Hannan (Parkville, Australia)	4183
09:15	<b>Can COVID-19 and tuberculosis influence epigenetic signalling in a way that can impact immunity of the next generation?</b> Maria Lerm (Linköping, Sweden)	4184
09:30	<b>Discussion and Q&amp;A</b> All Speakers	4185

## Purple Session 402 08:30 - 10:00

### Mini symposium: Complex pleural disease: management in the critically ill patient

**Aims :** to present most common problems that surgeons, chest physicians, intensivists and even radiologists can face for diagnosis and treatment in the critically ill patients; to emphasize the need of multidisciplinary approach to these patients; to clarify diagnosis and treatment of patients with pneumothorax and patients on mechanical ventilation, patients with pulmonary disease listed for lung transplantation and pneumothorax after a bronchoscopic procedure, surgical procedure or talc pleurodesis (to distinguish 'true' pneumothorax from the residual air space); to distinguish free empyema and complex empyema and try to create a protocol for critically ill patients (intrapleural fibrinolytic therapy, dornase alfa, additional drainage tubes, medical thoracoscopy and surgical procedures); to discuss chylothorax after surgical procedures, spontaneous chylothorax, conservative treatments, surgical options and bronchopleural fistulas (fistulas after lung transplantation, fistulas after cancer surgery, conservative treatments, bronchoscopic treatments and surgical options).

**Disease(s) :** Respiratory critical care Respiratory infections Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs :** Katerina Antoniou (Heraklion, Greece), Federica Meloni (Pavia (PV), Italy)

08:30	<b>Pneumothorax in critically ill patients</b> Marco Nardini (Leeds, United Kingdom)	4186
08:45	<b>Complex empyema in critically ill patients</b> David Sanchez (Barcelona, Spain)	4187
09:00	<b>Chylothorax and bronchopleural fistulas</b> Mario Nosotti (Milano (MI), Italy)	4188
09:15	<b>Discussion and Q&amp;A</b> All Speakers	4189

## Studio (White) Session 403 08:30 - 08:45

### News from the studio: News from the studio

**Chairs :** Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

08:30	<b>Discussion and Q&amp;A</b> All Speakers	4190
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## Studio (White) Session 404 09:10 - 10:00

### Experts interview: Making sense of chronic cough/An update on environmental and occupational exposure in interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

09:10	<b>Making sense of chronic cough: hypersensitivity, hyper-reactivity or idiopathic patient phenotypes?</b> Lorcan McGarvey (Belfast, United Kingdom)	4191
09:25	<b>Discussion and Q&amp;A</b> All Speakers	4192
09:35	<b>Environmental and occupational exposure in interstitial lung diseases: an update</b> Francois Huaux (Bruxelles, Belgium)	4193

09:50 Discussion and Q&A  
All Speakers

4194

Red 1+2

Session 405

09:30 - 10:45

## Oral presentation: Unravelling pulmonary fibrosis mechanisms

Disease(s) : [Interstitial lung diseases](#)

Method(s) : Cell and molecular biology General respiratory patient care

Tag(s) : Clinical, Translational

Chairs : Phil Molyneaux (London, United Kingdom), Michael Gerckens (München, Germany)

**Late Breaking Abstract - Morphine sulfate for the treatment of cough in Idiopathic Pulmonary Fibrosis The PACiFy Cough Randomized Clinical Trial**

OA4195 Phil Molyneaux (London, United Kingdom), Zhe Wu, Lisa G Spencer, Winston Banya, Nazia Chaudhuri, Pilar Rivera-Ortega, Ira Jakupovic, Brijesh Patel, Muhunthan Thillai, Alex West, John Westoby, Marlies Wijsenbeek, Toby M Maher, Jaclyn A Smith

**LSC - 2023 - Two lung immuno-endotypes in IPF associated with diferent pathological features**

OA4196 Tamara Cruz Santa Cruz (Barcelona, Spain), Nuria Mendoza, Sandra Casas, Guillaume Noel, Fernanda Hernandez, Maria Molina, Mauricio Rojas, Alvar Agusti, Jacobo Sellares, Rosa Faner

**LSC - 2023 - Defining and modelling the fibrotic niche in lung fibrosis**

OA4197 Joseph Bell (Southampton, United Kingdom), Michael Eyres, Elizabeth Davies, Zijian Xu, Yihua Wang, Gayle Marshall, Donna Davies, Emily Offer, Mark Jones

**Spatial transcriptomic analysis reveals similar gene expression patterns in the Long COVID and IPF lungs.**

OA4198 Aurélien Justet (Caen, France), Claudia Ravaglia, Amy Zhao, Nibal Al Hussein, Taylor Adams, Agshin Balayev, Joe Deluliis, Naftali Kaminski, Sara Tomassetti, Venerino Poletti

**STING inhibitor ameliorates senescence via inhibiting cGAS-STING pathway in Idiopathic Pulmonary Fibrosis**

OA4199 Lorena Rosas (Columbus, United States), Natalia-Del Pilar Vanegas, Madeline Riley, Erica L Dale, Victor Peters, Sean D Stacey, Marc Kaestle, Peter Seither, Ana L Mora, Mauricio Rojas

**Targeting pro-inflammatory and pro-fibrotic monocyte phenotype using novel mitochondria-targeted hydrogen sulfide delivery**

OA4200 Elena Leonova (Exeter, United Kingdom), S.L. Barratt, M.A. Lindsay, M.A. Gibbons, M. Whiteman, C.J. Scotton

**Hyaluronic acid decorated-liposome loaded with Imatinib: an in vitro study as targeted drug delivery system for lung fibrosis**

OA4201 eleonora bozza (pavia, Italy), Sara Bozzini, Cecilia Bagnera, Valeria Bincoletto, Ilaria Andreana, Barbara Stella, Laura Pandolfi, Elisa Cacciatore, Sara Lettieri, Silvia Arpicco, Federica Meloni

**Therapeutic effects of ALK5i on pulmonary function and fibrosis in a high-fat diet + bleomycin-induced and spirometry-confirmed mouse model of IPF**

OA4202 Asbjørn Graver Petersen (Hørsholm, Denmark), Jamal Bousamaki, Laura Jul Andreasen, Denise Oró, Jonas Damgård Schmidt, Yaohui Nie, Jordan Butts, Manuel Roqueta-Rivera, Henrik Björk Hansen, Michael Feigh

**SMAC Mimetic as potential anti-fibrotic therapy in an in vivo model of Bleomycin-induced Pulmonary Fibrosis**

OA4203 Natalia Vanegas (Columbus, United States), Lorena Rosas, Paula Agudelo Garcia, Stephanie Scott, Madeline Riley, Erica L. Dale, Jazmin Calyeca, Victor Peters, Marc Kaestle, Peter Seither, Ana L. Mora, Mauricio Rojas

**A 3D organoid model mimicking honeycomb cysts in idiopathic pulmonary fibrosis**

OA4204 Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler

OA4205 Discussion and Q&A  
All Speakers

Brown 3

Session 406

09:30 - 10:45

## Oral presentation: Interactions at the host-environment interface governing the scale and phenotype of airway inflammation

Disease(s) : [Airway diseases](#)

Method(s) : Cell and molecular biology Pulmonary function testing Physiology

Tag(s) : Basic science, Translational

Chairs : Robert Snelgrove (London, United Kingdom), Katharine Lodge (London, United Kingdom)

- OA4206** **Late Breaking Abstract - Carnitine palmitoyltransferase 1A and its fatty acid oxidation as a protector of airway epithelial barrier**  
Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li
- 
- OA4208** **Airway inflammation and hyperresponsiveness in asthma is regulated by the circadian clock through REV-ERBa**  
Amlan Chakraborty (Manchester, United Kingdom), Jafar Cain, Robert Maidstone, Karolina Krakowiak, Vishvangi Deugi, Nicola Begley, Julie Gibbs, Hannah Durrington
- 
- OA4209** **Epithelial alarmins enhance mast cell-dependent contractions of isolated human small bronchi**  
Maria Belikova (Stockholm, Sweden), Jesper Säfholm, Mamdoh Al-Ameri, Ann-Charlotte Orre, Sven-Erik Dahlén, Mikael Adner
- 
- OA4210** **Epithelium-derived cystatin SN inhibits HDM protease activity in allergic asthma**  
Xin Yao (Nanjing (Jiangsu), China), Lei Yao, Ian Adcock
- 
- OA4211** **Neutrophilic responses in a subacute and chronic mouse model of pollutant-aggravated allergic asthma**  
Tania Maes (Ghent, Belgium), Joyceline De Volder, Annelies Bontinck, Katrien De Grove, Guy Joos, Guy Brusselle
- 
- OA4212** **Respiratory effects of cold air and diesel exposure in exercise-induced bronchoconstriction in mice**  
Nora Marain (Leuven, Belgium), Marieke Colemont, Dominique Bullens, Lieven Dupont, Jeroen Vanoirbeek
- 
- OA4214** **LSC - 2023 - Resolution of inflammation in long COVID**  
Sean Knight (Manchester, United Kingdom), Madhvi Menon, Bethany Pott, Tracy Hussell, Nawar Bakerly, Thomas Williams, John Grainger, Joanne Konkel, Elizabeth Mann, Angela Simpson, Laurence Pearmain, Alexander Mathioudakis, Geoffrey Lowman, Shruti Sarda, Altan Turkoglu, Loni Pickle, Michelle Toro
- 
- OA4215** **Patients on mepolizumab, benralizumab, or dupilumab have diminished post-vaccination antibody and B cell responses to SARS-CoV-2.**  
Pedro Lamothe (Decatur, United States), Martin Runnstrom, Katia Faliti, Narayanaiah Cheedra, Alberto Moreno, Mehul Suthar, Rishika Nahata, Mayuran Ravindran, Andrea Morrison-Porter, Richard Ramonell, Matthew Woodruff, Robert Swerlick, Colin Swenson, Carmen Polito, Wendy Neveu, Natalia Smirnova, Caroline Kim, Ian Hentenaar, Shuya Kyu, Zhenxing Guo, Hao Wu, Natalie Haddad, Jiwon Park, John Daiss, Suneetha Cheedarla, Andrew Neish, John Roback, Sunita Sharma, Fernando Holguin, Ignacio Sanz, Frances Eun-Hyung Lee
- 
- OA4216** **Discussion and Q&A**  
All Speakers

Brown 1+2

Session 407

09:30 - 10:45

Oral presentation: Updating pulmonary rehabilitation outcomes and chronic management

Disease(s) : Pulmonary vascular diseases Airway diseases Respiratory critical care

Method(s) : Pulmonary rehabilitation General respiratory patient care Physiology Public health Respiratory intensive care

Tag(s) : Clinical

Chairs : Ana Oliveira (Aveiro, Portugal), Guido Vagheggini (Volterra (PI), Italy)

- OA4217** **Late Breaking Abstract - Effects of symptom-based rehabilitation compared to usual care in post COVID-19 – a randomized controlled trial: preliminary results of the Reload-study**  
Tessa Schneeberger (Schönau am Königssee, Germany), Inga Jarosch, Daniela Leitl, Rainer Gloeckl, Clancy John Dennis, Andreas Rembert Koczulla
- 
- OA4218** **Symptom burden in COPD: a clustering approach**  
Sarah Houben-Wilke (Horn, Netherlands), Qichen Deng, Daisy Janssen, Frits Franssen, Martijn Spruit
- 
- OA4219** **High-intensity interval training (HIIT) versus constant-load exercise (CLE) on the short-acute beta agonist (SABA) consumption and peak-expiratory flow (PEF) in subjects with moderate to severe asthma**  
Ronaldo Aparecido Da Silva (São Paulo (SP), Brazil), Thiago Fernandes, Rafael Stelmach, Alberto Cukier, Regina Maria Carvalho-Pinto, Celso R. F. Carvalho
- 
- OA4220** **Functional capacity testing in patients with pulmonary hypertension (PH) using the one-minute sit-to-stand test (1-min STST)**  
Christina Kronberger (Vienna, Austria), Roya Mousavi, Begüm Öztürk, Robin Willixhofer, Brigitte Litschauer, Roza Badr Eslam
- 
- OA4221** **Feasibility of personalised health behaviour coaching to support symptoms and activities of daily living in those with Long COVID-19.**  
Matthew Armstrong (Bournemouth, United Kingdom), Rebecca Owen, Ioannis Vogiazitis

- OA4222** **Effects of association of aerobic and breathing exercises on clinical controls, physical capacity, and psychosocial status in patients with moderate to severe asthma: an RCT**  
Adriana C. Lunardi (São Paulo (SP), Brazil), Fabiana Kim, Jaqueline Rocha, Denielli Bos, Eloise Santos, Cibele Marques Da Silva, Alberto Cukier, Celso Carvalho
- OA4223** **Inspiratory muscle training, with or without concomitant pulmonary rehabilitation, for COPD: state of the evidence from a Cochrane review**  
Omar Ammous (Göttingen, Germany), Walid Feki, Tamara Lotfi, Assem M Khamis, Rik Gosselink, Ahmed Rebai, Samy Kammoun
- OA4224** **Post-hospitalisation COVID-19 healthcare pathways and 1 year health-related quality of life (HRQoL): effect of clinical assessment and rehabilitation**  
Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Wolloff, Archie Walters, Michael Marks, Andrew Briggs
- OA4225** **Minimally important differences based on baseline for clinical outcomes of pulmonary rehabilitation**  
Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Miriam Groenen, Anouk Vaes, Daisy Janssen, Emiel Wouters, Frits Franssen, Martijn Spruit
- OA4226** **Long-term effectiveness of a Pulmonary Telerehabilitation in Post-COVID-19 patients.**  
Bruna Scharlack Vian (Campinas, Brazil), Laís Bacchin De Oliveira, Ana Lúcia Cavallaro Baraúna Lima, Luciana Castilho De Figueirêdo, Mariângela Ribeiro Resende, Paulo Mendes, Hugo Dugolin Ceccato, Julian Furtado Silva, Lucieni De Oliveira Conterno, Pedro Maximink Esteves Villar, Lígia Dos Santos Roceto Ratti, Mônica Corso Pereira
- OA4227** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 408

09:30 - 10:45

## Oral presentation: Selected tobacco and nicotine research

Disease(s) : **Airway diseases**

Method(s) : Epidemiology Public health General respiratory patient care Pulmonary function testing Cell and molecular biology

Tag(s) : Clinical

Chairs : Elif Dagli (Istanbul, Turkey), Stamatoula Tsirikika (Athens, Greece)

- OA4228** **Late Breaking Abstract - Alpha-1 Antitrypsin deficiency and risk of cancer: A Nationwide cohort study**  
Nanna Korsbæk (Køge, Denmark), Eskild Landt, Sarah Marott, Børge Nordestgaard, Morten Dahl
- OA4230** **The causal relationship between smoking conditions and telomere length: a mendelian randomization study in UK biobank**  
Siyu Dai (Hangzhou, China), Feng Chen
- OA4231** **E-cigarette use and quality of life in young adults: a Canadian health measure survey study**  
Teresa To (Toronto (ON), Canada), Cornelia M. Borkhoff, Chung-Wai Chow, Theo J. Moraes, Robert Schwartz, Nicholas T. Vozoris, Chirstopher Langlois, Kimball Zhang, Emilie Terebessy, Jingqin Zhu
- OA4232** **Tobacco control or tobacco investment ? : Incentives given to tobacco industry**  
Elif Dagli (Istanbul, Turkey), Tanzer Gezer, Osman Elbek, Banu Salepci, Pinar Bostan, Pinar Ay, Murat Ceyhan, Fusun Yıldız, Murat Guner
- OA4233** **Perceptions of general practitioners in Istanbul on e-cigarettes as smoking cessation aids**  
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Ayşe Emel Önal, Selma Karabey, Meryem Merve Ören, Mahmut Talha Ucar, Chris Barton
- OA4234** **Smoking status in women with normal and complicated pregnancy.**  
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Kravchenko, Tetiana Kirieieva, Tetiana Pertseva
- OA4235** **Acute vascular effects following e-cigarette inhalation**  
Amelie Brynedal (Umeå, Sweden), Mikael Kabéle, Jenny Bosson, Lukasz Antoniewicz, Magnus Lundbäck, Anders Blomberg
- OA4236** **Oscillometry in the assessment of early smoking-induced airway changes**  
Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Dellaca, Owat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffers, Charles G. Irvin, Robab Breyer-Kohansal
- OA4237** **Vaping-derived Δ8-THC quinones form cysteine adducts and alter the respiratory epithelium transcriptome**  
Charlotte Love (Chapel Hill, United States), Hye-Young Kim, Keri Tallman, Ned Porter, Phillip Clapp, Ilona Jaspers

OA4238 **Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 409

09:30 - 10:45

Oral presentation: **New basic insights into the mechanisms of acute and chronic lung diseases**

**Disease(s)** : Airway diseases Thoracic oncology Interstitial lung diseases Pulmonary vascular diseases

**Method(s)** : Cell and molecular biology Imaging Transplantation

**Tag(s)** : Basic science, Translational

**Chairs** : Audrey Joannes (RENNES, France), Olivier Burgy (Dijon, France)

OA4239 **Late Breaking Abstract - Factor inhibiting HIF (FIH) as a metabolic switch in lung fibroblasts**  
Siyuan Wang (southampton, United Kingdom), Liudi Yao, Yilu Zhou, Franco Conforti, Nullin Divecha, Jonathan Swann, Charlie Birts, Donna Davis, Mark Jones, Yihua Wang

OA4240 **Association between airway MMP-12 and DNA methylation in BAL cells in COPD**  
Jonas Eriksson Ström (Umeå, Sweden), Simon Kebede Merid, Robert Linder, Jamshid Pourazar, Anders Blomberg, Anne Lindberg, Annelie F Behndig, Erik Melén

OA4241 **Fucosyltransferase-2 improves the COPD phenotype through its regulation of E-cadherin**  
Venkataramana Sidhaye (Baltimore, United States), Carter Swaby, Shreeti Thapa, Bonnie Yeung-Luk, Sahana Ramaswamy

OA4242 **Mettl3-mediated m6A modification of FSP1 mRNA induces ferroptosis by diminishing the FSP1 level in COPD**  
Yan Wu (Wuxi, China), Yue Yang, Weiyu Shen, Tao Bian

OA4243 **Blocking CXCR4 improves pulmonary and cardiac outcomes in a mouse model of early COPD**  
Isabelle Dupin (Bordeaux, France), Pauline Henrot, Elise Maurat, Reshed Abohalaka, Sébastien Chaigne, Dounia El Hamrani, Edmée Eyraud, Renaud Prevel, Pauline Estèves, Marilyne Campagnac, Marielle Dubreuil, Guillaume Cardouat, Clément Bouchet, Olga Ousova, Jean-William Dupuy, Thomas Trian, Matthieu Thumerel, Hugues Bégueret, Pierre-Olivier Girodet, Roger Marthan, Maéva Zysman, Véronique Freund-Michel, Patrick Berger

OA4244 **Airway dysbiosis disturbs lung clock gene expression in a chronic smoke-exposed murine model**  
Wei Xiao (Chengdu, China), Juan-Juan Fu, Ti-Wei Miao, Bing Mao

OA4245 **“Super Survivor” after Lung Transplantation – Protective Role of Macrophages?**  
Edith Katharina Plucinski (Hannover, Germany), Jan-Christopher Kamp, Jens Gottlieb, Tobias Welte, Marius Hoepfer, Hans-Heinrich Kreipe, Danny David Jonigk, Lavinia Neubert, Mark Philipp Kühnel

OA4246 **Tissue-specific gene expression of immune-related genes in different COVID-19 severities**  
Alberto Gómez Carballa (Santiago de Compostela, Spain), Irene Rivero-Calle, Jacobo Pardo-Secco, Jose Gómez-Rial, Ana Dacosta-Urbieto, Xabier Bello, Sara Pischedda, María José Currás-Tuala, Sandra Viz-Lasheras, Federico Martínón-Torres, Antonio Salas

OA4247 **Identification of the mesenchymal subpopulation responsible for lung tumorigenesis by using single-cell RNA-seq**  
Shigehisa Yanagi (Miyazaki, Japan), Hironobu Tsubouchi, Taiga Miyazaki

OA4248 **A primary ciliary dyskinesia model of static cilia for research application**  
Claire L Jackson (Southampton (Hampshire), United Kingdom), Janice Coles, Katie Horton, Regan Doherty, Gemma Fryatt, Jane S Lucas

OA4249 **Discussion and Q&A**  
All Speakers

Gold Session 411 10:15 - 11:45

Endoscopy session: **Innovative interventions in pulmonology: freeze, fry or fume?**

**Aims** : to demonstrate the performance of a variety of interventional procedures, including tips and tricks from experts; to explain the details of the new techniques and technologies demonstrated.

**Disease(s)** : Thoracic oncology Airway diseases Interstitial lung diseases

**Method(s)** : Endoscopy and interventional pulmonology

**Tag(s)** : Clinical

**Target audience** : Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Thoracic surgeon, Respiratory critical care physician

**Chairs** : Mohammed Munavvar (Preston (Lancashire), United Kingdom), Amanda Dandanell Juul (Odense S, Denmark)



10:15	<b>Introduction</b> All Speakers	4250
10:20	<b>Rheoplasty and cryo spray</b> Konstantina Kontogianni (Heidelberg, Germany)	4251
10:35	<b>Endoscopic lung volume reduction</b> Michela Bezzi (Brescia, Italy)	4252
10:50	<b>Indwelling pleural catheter placement and troubleshooting</b> M <sup>a</sup> Rosa Cordovilla Perez (Salamanca, Spain)	4253
11:05	<b>Cryobiopsy</b> Sara Tomassetti (Florence, Italy)	4254
11:20	<b>Discussion and Q&amp;A</b> All Speakers	4255

## Silver Session 412 10:15 - 11:45

### Clinical cases: Lungs on fire: paediatric respiratory diseases

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Paediatric respiratory diseases

**Tag(s) :** Clinical

**Chairs :** Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

**Discussants :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), David Drummond (Paris, France)

10:15	<b>Case 1 incl. panel discussion and Q&amp;A - Author: J. N. Eze (Nigeria)</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands)	4256
10:37	<b>Case 2 incl. panel discussion and Q&amp;A - Author: M. Cameron (Australia)</b> David Drummond (Paris, France)	4257
10:59	<b>Case 3 incl. panel discussion and Q&amp;A - Author: N. Kula (Turkey)</b> Marielle W.H. Pijnenburg (Rotterdam, Netherlands)	4258
11:21	<b>Case 4 incl. panel discussion and Q&amp;A - Author: S. Hartfiel (Germany)</b> David Drummond (Paris, France)	4259

## Coral 4+5 Session 413 10:15 - 11:45

### Respiratory medicine meets other disciplines: Pulmonary hypertension related to heart and lung disease

#### ERS/ESC joint session

**Aims :** to define the different physiological and clinical characteristics of pulmonary hypertension (PH) associated with different forms of heart or lung diseases; to explain the up-to-date treatment approach for PH associated with heart or lung disease; to explain the different physiological responses of the right ventricle in different types of PH and its impact on the correct treatment and its efficacy; to describe the up-to-date treatment of PH associated with heart failure, with an emphasis on HFpEF-PH.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training

**Chairs :** Yochai Adir (Haifa, Israel), Pilar Escribano- Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)

10:15	<b>The spectrum of PH in lung diseases</b> Isabel Blanco Vich (Barcelona, Spain)	4260
10:30	<b>Genetic pulmonary vascular disorders as a cause of pulmonary hypertension in adults</b> David Montani (Le Kremlin-Bicêtre, France)	4261

10:45	<b>Right ventricle adaptation in different types of PH</b> Frances S. de Man (Amsterdam, Netherlands)	4262
11:00	<b>Any progress in the management of PH in heart failure?</b> Jean-Luc Vachiery (Bruxelles, Belgium)	4263
11:15	<b>Discussion and Q&amp;A</b> All Speakers	4264

### Coral 3 Session 414 10:15 - 11:45

#### Hot topics: Precision medicine in obstructive sleep apnoea

**Aims :** to describe the road map for implementing precision medicine in obstructive sleep apnoea (OSA); to explain that deep phenotyping is a prerequisite for precision medicine in OSA; to describe the endotypes or pathophysiological traits allowing to indicate personalised therapy; to perform risk stratification by describing OSA-specific metrics that were designed to capture the hypoxic burden, intensity of respiratory arousal events and cardiac autonomic response to acute events; to explain how to identify continuous positive airway pressure (CPAP) treatment failures by telemonitoring platforms and to propose early interventions.

**Disease(s) :** Sleep and breathing disorders

**Method(s) :** Epidemiology General respiratory patient care Respiratory intensive care

**Tag(s) :** Basic science, Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Respiratory critical care physician, Paediatrician, Patient, Scientist (basic, translational)

**Chairs :** Matteo Bradicich (Zollikerberg, Switzerland), Silke Ryan (Dublin, Ireland), Jana De Brandt (Umeå, Sweden)

10:15	<b>Clinical and sleep phenotypes</b> Stefania Redolfi (Cagliari, Italy)	4265
10:30	<b>Physiological phenotypes/endotypes and treatable traits</b> Danny Eckert (Bedford Park (SA), Australia)	4266
10:45	<b>OSA risk stratification beyond the apnoea-hypopnea index and its relevance to patient-reported outcome measures</b> Raphael Heinzer (Lausanne, Switzerland)	4267
11:00	<b>Detection of CPAP treatment failures by telemonitoring platforms and proposal of early interventions</b> Jean-Louis Pépin (Grenoble, France)	4268
11:15	<b>Discussion and Q&amp;A</b> All Speakers	4269

### Coral 1 Session 415 10:15 - 11:45

#### Symposium: UNITE4TB: tuberculosis renewed

##### European Union project

**Aims :** to explain how to use and discuss the methods used to diagnose tuberculosis (TB) and identify resistance; to describe the different drugs and regimens being studied for TB treatment; to explain the advances and challenges in the development of biomarkers; to explain the importance of treatment adherence and the different interventions in use.

**Disease(s) :** Respiratory infections

**Method(s) :** Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Scientist (basic, translational), Journalist

**Chairs :** Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)

10:15	<b>Patient's perspective</b> Paula Rusu (, Romania)	4270
10:20	<b>New developments in tuberculosis diagnosis</b> Daniela Maria Cirillo (Milano (MI), Italy)	4271
10:35	<b>Tuberculosis treatment monitoring and outcome measures</b> Derek Sloan (ST ANDREWS, United Kingdom)	4272

10:50	<b>New drugs, new regimens and new ways to design clinical trials</b> Christoph Lange (Borstel, Germany)	4273
11:05	<b>Interventions to enhance treatment adherence</b> Raquel Duarte (Porto, Portugal)	4274
11:20	<b>Discussion and Q&amp;A</b> All Speakers	4275

## Coral 2 Session 416 10:15 - 11:45

### Symposium: Occupational and environmental determinants of common respiratory diseases From Epidemiology to the Clinic and Back

**Aims :** to present updates and interesting and challenging cases underscoring the important (and often missed) role that occupational and environmental exposures play in the aetiology, diagnosis, treatment and prevention of common and well-known chronic respiratory diseases. to highlight the influence of early life determinants and diet on the risk of chronic obstructive pulmonary disease (COPD), the added value of association studies based on the exposome concept and the impact of diet in adulthood for prevention of asthma and COPD and improvement of lung health.

**Disease(s) :** [Airway diseases](#) [Interstitial lung diseases](#)

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training

**Chairs :** Rafael E. de la Hoz (New York, United States), Ane Johannessen (Bergen, Norway)

10:15	<b>Updates on occupational COPD: towards an expanded view of causation for better prevention</b> Sara De Matteis (Cagliari, Italy)	4276
10:30	<b>Diet: an underappreciated but promising approach to COPD prevention</b> Raphaëlle Varraso (Villejuif, France)	4277
10:45	<b>Impact of work-related risks on diagnostics and treatment of asthma</b> Irmeli Lindström (Helsinki, Finland)	4278
11:00	<b>Hypersensitivity pneumonitis: multiple exposures and one disease</b> Martina Koziar Vasakova (Praha 10, Czech Republic)	4279
11:15	<b>Discussion and Q&amp;A</b> All Speakers	4280

## Purple Session 417 10:15 - 11:45

### Mini symposium: Symptom burden in interstitial lung disease

**Aims :** to provide the audience with updates on the pathogenesis, epidemiology and pharmacological and nonpharmacological management of dyspnoea, cough and fatigue in ILD; to learn about the impact of these symptoms on general and emotional well-being and daily activities of the patient; to provide an overview of the most common and burdensome symptoms in patients with ILD; to update on the most recent scientific evidence with regards to the pathophysiology and management of dyspnoea, cough and fatigue, and their impact on patients.

**Disease(s) :** [Interstitial lung diseases](#)

**Method(s) :** General respiratory patient care Palliative care Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Katerina Antoniou (Heraklion, Greece), Federica Meloni (Pavia (PV), Italy)

10:15	<b>Patient's perspective</b> John Solheim (Sætre, Norway)	4281
10:20	<b>Management of dyspnea in ILD</b> Yet Hong Khor (Melbourne (VIC), Australia)	4282
10:35	<b>Pathophysiology and treatment of cough in ILD</b> Zhe Wu (London, United Kingdom)	4283

10:50	<b>Fatigue in ILD: a major problem for patients and physicians</b> Karen Moor (Rotterdam, Netherlands)	4284
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11:05	<b>Discussion and Q&amp;A</b> All Speakers	4285
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10:30-11:15

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

ERS Stand/World Village	Session 420	10:30 - 11:30
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Public: Coffee and Clean Air - 3

Studio (White)	Session 421	10:30 - 11:15
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**Pro-Con debate: Are  $\beta$ -blockers beneficial in chronic obstructive pulmonary disease?****Aims :** to discuss the use of  $\beta$ -blockers in patients with chronic obstructive pulmonary disease (COPD); to consider the risk-benefit assessment of  $\beta$ -blocker therapy in COPD; to answer the open question of whether there is a place for use of  $\beta$ -blockers in our patients.**Disease(s) :** Airway diseases**Method(s) :** Epidemiology Physiology Public health**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational)**Chairs :** Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

10:45	<b>Pro: Are <math>\beta</math>-blockers beneficial in COPD?</b> Alan Kaplan (Stouffville (ON), Canada)	4289
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10:30	<b>Con: Are <math>\beta</math>-blockers beneficial in COPD?</b> Daiana Stolz (Freiburg, Germany)	4288
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11:00	<b>Discussion and Q&amp;A</b> All Speakers	4290
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Amber 1+2	Session 422	10:40 - 13:00
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**Skills workshop: SW11 Clinical-radiological-pathological correlation in pulmonary hypertension****Aims :** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.**Disease(s) :** Pulmonary vascular diseases**Method(s) :** Imaging**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist**Chairs :** Anton Vonk Noordegraaf (Amsterdam, Netherlands)

10:40	<b>Introduction</b> All Speakers	4291
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10:40	<b>Radiological assessment of pulmonary hypertension</b> Deepa Gopalan (LONDON, United Kingdom)	4292
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10:40	<b>Pathological assessment of pulmonary hypertension</b> Teodora Radonic (Amsterdam, Netherlands)	4293
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10:40	<b>Echocardiography in pulmonary hypertension</b> Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)	4294
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10:40	<b>Clinical assessment of pulmonary hypertension</b> Anton Vonk Noordegraaf (Amsterdam, Netherlands)	4295
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Red 1+2

Session 423

11:00 - 12:15

**Oral presentation: Innovative approaches to managing asthma and chronic obstructive pulmonary disease: a translational perspective****Disease(s)** : Airway diseases Interstitial lung diseases**Method(s)** : Cell and molecular biology Endoscopy and interventional pulmonology Imaging Pulmonary function testing Pulmonary rehabilitation Transplantation General respiratory patient care Physiology**Tag(s)** : Translational**Chairs** : Lena Uller (Lund, Sweden), Manali Mukherjee (Hamilton (ON), Canada)

- OA4296** **Late Breaking Abstract - Early improvement in asthma small airway dysfunction after one dose of SAR443765, a novel bispecific anti-thymic stromal lymphopoietin/anti-IL-13 nanobody molecule**  
Annemie Deiteren (Gent, Belgium), Emmanuel Krupka, Karine Imberdis, Naimish Patel, Heribert Staudinger, Selcuk Bas, Benjamin Surat
- 
- OA4297** **Autologous transplantation of P63+ lung progenitor cells for chronic obstructive pulmonary disease therapy**  
Wei Zuo (Shanghai, China), Yujia Wang, Zili Meng, Ming Liu, Yueqing Zhou, Difei Chen, Yu Zhao, Ting Zhang, Nanshan Zhong, Xiaotian Dai, Shiyue Li
- 
- OA4298** **Relationship between IL-33 expression and epithelial remodelling in COPD small airways**  
Sophie Booth (WHITE - English/Welsh/Scottish/Northern Irish or B, United Kingdom), Danen Cunoosamy, Jørgen Vestbo, Dave Singh, Andrew Higham
- 
- OA4299** **A novel senotherapeutic approach for COPD via activating autophagy-lysosome axis**  
Sachi Matsubayashi (Tokyo, Japan), Yusuke Hosaka, Saburo Ito, Jun Araya, Yuta Hirano, Shota Fujimoto, Hironori Kawamoto, Naoaki Watanabe, Tsukasa Kadota, Yu Fujita, Daisuke Takekoshi, Shunsuke Minagawa, Takanori Numata, Hiromichi Hara, Kazuyoshi Kuwano
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- OA4300** **SIL-6R $\alpha$  amplified IL-6 signaling in bronchial epithelial cells defines a subgroup of asthma patients low in sputum eosinophils**  
Reinoud Gosens (Groningen, Netherlands), Zaid El-Husseini, Dmitry Khalenkov, Andy Lan, Maarten Van Den Berge, Djoke Van Gosliga, Martijn Nawijn, Judith Vonk, Gerard Koppelman
- 
- OA4301** **Mepolizumab alters the phenotype and activation status of peripheral blood eosinophils in patients with severe eosinophilic asthma**  
Pablo Miguéns-Suárez (Santiago de Compostela, Spain), Sara Vázquez-Mera, Laura Martelo-Vidal, Uxío Calvo-Álvarez, Raquel Ruiz-Ferreras, Marina Blanco-Aparicio, Coral González-Fernández, Mar Mosteiro-Añón, María Dolores Corbacho-Abelaira, Paula Méndez-Brea, Juan José Nieto-Fontarigo, Francisco Javier Salgado, Francisco Javier González-Barcala
- 
- OA4302** **Effect of add-on therapies (mepolizumab, omalizumab or azithromycin) on asthma remission in severe asthma**  
Dennis Thomas (New Lambton Heights, Australia), Vanessa McDonald, Sean Stevens, Erin Harvey, Melissa Baraket, Philip Bardin, Jeff Bowden, Simon Bowler, Jimmy Chien, Li Ping Chung, Andrew Gillman, Mark Hew, Sandra Hodge, Alan James, Christine Jenkins, Constance Katelaris, Gregory Katsoulotos, David Langton, Joy Lee, Guy Marks, Matthew Peters, Naghme Radhakrishna, Paul Reynolds, Janet Rimmer, Pathmanathan Sivakumaran, John Upham, Peter Wark, Ian Yang, Peter Gibson
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- OA4303** **Effect of in vitro azithromycin treatment on epithelial antiviral immunity in eosinophilic and non-eosinophilic asthma phenotypes**  
Muzhda Ghanizada (Copenhagen, Denmark), Sofia Malm Tillgren, Nihaya Mahmoud Said, Helle Frost Andreassen, Louise Munkholm Andreassen, Lise Lotte Eriksen, Nanna Dyhre-Petersen, Mandy Menzel, Samuel Cerps, Asger Sverrild, Lena Uller, Celeste Porsbjerg, Therese Lapperre
- 
- OA4304** **NK cell maturation and proliferation in severe asthmatic patients after Benralizumab therapy**  
Laura Bergantini (siena, Italy), Miriana D'Alessandro, Tommaso Pianigiani, Elena Bargagli, Paolo Cameli
- 
- OA4305** **The inhaled PDE4 inhibitor tanimilast shows efficacy in both Th2 and non-Th2 murine models of asthma**  
Anna Rita Pisano (Parma (PR), Italy), Debora Fragni, Andrew Allen, Marina Tondelli, Alice Pappani, Davide De Angelis, Maurizio Civelli, Gino Villetti, Daniela Miglietta
- 
- OA4306** **Discussion and Q&A**  
All Speakers

Brown 3

Session 424

11:00 - 12:15

**Oral presentation: Physical activity, exercise, and rehabilitation in lung disease****Disease(s)** : Airway diseases**Method(s)** : Pulmonary rehabilitation Transplantation General respiratory patient care**Tag(s)** : Clinical

**Chairs :** Deniz Inal-Ince (Ankara, Turkey), Daniel Langer (Leuven, Belgium)

- OA4307** **Late Breaking Abstract - Group-based Tele-Yoga improves exercise capacity, respiratory and cognitive function and quality of life in obstructive sleep apnea syndrome**  
Naciye Vardar Yağlı (Ankara, Turkey), Filiz Eyuboglu, Deniz Inal-Ince, Berna Karamancioglu, Naciye Vardar-Yagli, Defne Kaya-Utlu, Orhan Dalkilic, Goksel Somay
- 
- OA4308** **A randomized trial of three months physical activity telecoaching in patients post lung transplantation**  
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Wim Janssens, Robin Vos, Thierry Troosters, Heleen Demeyer
- 
- OA4309** **Physical activity tele coaching in COPD: intermediate effects**  
Astrid Blondeel (Leuven, Belgium), Fien Hermans, Sofie Breuls, Marieke Wuyts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters
- 
- OA4310** **Effects of an online behaviour change intervention to promote physical activity in adults with asthma: preliminary data of a randomized controlled trial**  
Joice Mara Oliveira (Londrina, Brazil), Ariele Pedroso, Natielly Soares Correia, Denner Ildemar Feitosa Melo, Caroline Sydloski Bidoia, Fabio Pitta, Manuela Karloh, Thiago Sousa Matias, Fabiano Francisco Lima, Marieta Cabral Amaral Da Cunha, Celso R F Carvalho, Karina Couto Furlanetto
- 
- OA4311** **Effectiveness of Personallised CommUnity-based Physical activities for people with chronic obstructive pulmonary disease (PICK UP)**  
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Patrícia Filipa Sobral Rebelo, Guilherme Rodrigues, Cíntia Dias, Ana Grave, Ana Sofia Rijo, Maria João Moura, Ana Carolina Oliveira, João Cravo, Maria Aurora Mendes, André Teixeira, Rodolfo Pinto, Dina Brooks
- 
- OA4312** **Is improving physical activity after pulmonary rehabilitation in COPD left to chance?**  
Joana Antão (Aveiro, Portugal), Patrícia Rebelo, Frits Franssen, Martijn Spruit, Alda Marques
- 
- OA4313** **Physical Activity coaching in people with COPD: a systematic literature review**  
Nicola Sante Diciolla (Madrid, Spain), María José Yuste-Sánchez, Alda Marques
- 
- OA4314** **The impact of pulmonary rehabilitation on the physical activity level of COPD patients across BMI groups**  
Heleen Demeyer (Leuven, Belgium), Marthe Van Overbeke, Lucas Vanden Bossche, Astrid Blondeel, Sofie Breuls, Marieke Wuyts, Lode Claes, Ysys Denuite, Andreas Von Leupoldt, Wim Janssens, Thierry Troosters
- 
- OA4315** **Pulmonary telerehabilitation vs. Conventional pulmonary rehabilitation – Secondary responder analysis**  
Henrik Hansen (Dragør, Denmark), Andre Torre, Thomas Kallelose, Charlotte Suppli Ulrik, Nina Skavlan Godtfredsen
- 
- OA4316** **Benefits of pulmonary rehabilitation in low compared to high-resource settings in COPD**  
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Joana Antão, Cátia Paixão, Patricia Rebelo, Ana Machado, Sara Souto-Miranda, Ana Sofia Grave, Cíntia Dias, Guilherme Rodrigues, Tânia Pinho, M Aurora Mendes, Ana Olivera
- 
- OA4317** **Discussion and Q&A**  
All Speakers

**Brown 1+2**

**Session 425**

**11:00 - 12:15**

**Oral presentation: Best abstracts in clinical problems**

**Disease(s) :** Pulmonary vascular diseases **Airway diseases** Respiratory critical care Sleep and breathing disorders

**Method(s) :** General respiratory patient care Pulmonary function testing Public health Cell and molecular biology Pulmonary rehabilitation Physiology Epidemiology

**Tag(s) :** Clinical

**Chairs :** Georgios Kaltsakas (Athens, Greece), Anne Orholm Nielsen (Gentofte, Denmark)

- OA4318** **Late Breaking Abstract - Obstructive sleep apnea and chronic cough: is there really a link?**  
Laurent Guillemainault (Toulouse Cedex, France), Jérémie Riou, Sandrine Pontier, Kamila Sedkaoui, Frédéric Gagnadoux, Trzepizur Wojciech
- 
- OA4319** **Prevalence of abnormal oscillometry among ambulatory Long COVID patients**  
Anthony Byrne (Allambie Heights, Australia), Nick Lees, Elli Asgary, Emma Stumbles
- 
- OA4320** **Effect of treatment with tobramycin on the airway microbiota and resistome in bronchiectasis patients chronically colonised with Pseudomonas aeruginosa: iBEST study**  
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisli G Einarsson, Andrew J Lee, Aya Alkhatib, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malaterre, James D Chalmers, Michael R Loebinger, Francesco Blasi, Charles S Haworth, J Stuart Elborn

- OA4321** **Effects of saline nebulisation on SARS-CoV2 spreading and exhaled bio-aerosol particles in COVID-19 patients**  
Federico Lavorini (Firenze (FI), Italy), Francesca Buttini, Leonardo Gori, Fabio Morecchiato, Alessandra Sorano, Gian Maria Rossolini, Alessandro Bartoloni, Jessica Mencarini, Ruggero Bettini
- OA4322** **Two-year cohort study after GM-CSF inhalation therapy for autoimmune pulmonary alveolar proteinosis**  
Koh Nakata (Niigata, Japan), Ryushi Tazawa, Page Research Group, Nobutaka Kitamura
- OA4323** **Correlation between endothelial dysfunction and Left ventricular global strain in patients with COVID-19 (from the TUN ENDCOV Study)**  
oussama Tabka (Evry courcouronnes, France), Imen Touil, Ibn Haj Amor Hassen, Charfeddine Salma, Kraiem Salma, Tabka Oussama, Hammami Rania, Mahmoud Anis, Torjmen Slim, Knani Jalel, Abdesslem Salem, Abid Leila
- OA4324** **Prevalence and associated factors to post-COVID-19 functional respiratory complaints (FRCs) identified by the Nijmegen questionnaire (NQ)**  
Thomas Gille (Bobigny, France), Lucile Sesé, Simon Chauveau, Bénédicte Giroux-Leprieur, Aurélie Hervé-Carrega, Morgane Didier, Gary Silvera, Mannelle Mokrani, Yousra Coulibaly, Marcilia Da Silva, Anabel Moreno, Stéphanie Groutteau, Emeline Saindoy, Hilario Nunes, Yurdagül Uzunhan, Carole Planès
- OA4325** **One year health-outcomes in adults hospitalised with COVID-19 who received systemic corticosteroid treatment: prospective cohort study**  
Richard Russell (Leicester, United Kingdom), Olivia Leavy, Steven Kerr, Ewen Harrison, Annemarie Docherty, Nazir Lone, Louise Wain, Aziz Sheikh, Chris Brightling, Rachael Evans
- OA4326** **Hyperventilation syndrome (HVS) after COVID 19 pneumonia : what are the predisposing factors?**  
Hela Cherif (Tunis, Tunisia), Mariem Friha, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaous Yangui, Mohamed Ridha Charfi
- OA4327** **How is lung function affected in children with long-COVID?**  
Zeynep Reyhan Onay (Istanbul, Turkey), Sinem Can Oksay, Deniz Mavi, Gulay Bilgin, Yetkin Ayhan, Ferit Durankus, Saniye Girit
- OA4328** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 426

11:00 - 12:15

Oral presentation: Mechanisms underlying the influence of obesity on respiratory diseases

Disease(s) : Airway diseases Sleep and breathing disorders Thoracic oncology

Method(s) : Epidemiology Cell and molecular biology Imaging General respiratory patient care Physiology Public health

Tag(s) : Clinical, Translational

Chairs : Niki Ubags (Epalinges, Switzerland), Chair to be confirmed

- OA4329** **Late Breaking Abstract - Perinatal obesity induces premature alveolar aging by AT2 cell depletion via IL-6-driven transcriptional and genome instability**  
Jaco Selle (Köln, Germany), Oleksiy Klymenko, Bastian Abend, Tobias Trojan, Chrysa Nikopoulou, Stephanie Stephan, David Meyer, Gabriela Riederer, Christina Vohlen, Rebecca Wilke, Ana-Ivonne Vazquez-Armendariz, Baktybek Kojonazarov, Peter Tessarz, Susanne Herold, Norbert Weißmann, Werner Seeger, Jörg Dötsch, Leo Kurian, Björn Schumacher, Miguel A. Alejandre Alcazar
- OA4330** **Western dietary pattern during pregnancy increases risk of childhood asthma dependent on social circumstances**  
Mina Ali (Copenhagen, Denmark), David Horner, Min Kim, Nicklas Brustad, Tingting Wang, Liang Chen, Casper-Emil T. Pedersen, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bønnelykke, Morten A. Rasmussen, Bo Chawes
- OA4331** **Genetic susceptibility to high BMI increases risk of early life asthma exacerbations and infections**  
Signe Kjeldgaard Jensen (København SV, Denmark), Anders Eliassen, Mathias Elsner Melgaard, Nicklas Brustad, Julie Kyvsgaard, Ann-Marie Malby Schoos, Jakob Stokholm, Bo Chawes, Klaus Bønnelykke
- OA4332** **Fully automated CT-based body composition analysis shows altered adipose tissue ratios in people with CF receiving CFTR modulator therapy**  
Christian Taube (Essen, Germany), Dirk Westhölter, Johannes Haubold, Johannes Wienker, Matthias Welsner, Sivagurunathan Sutharsan, Michael Forsting, Felix Nensa, Rene Hosch, Marcel Opitz
- OA4333** **Specific association of extracellular vesicles-derived miRNA-17 and -106a clusters with pathomechanisms of obesity-associated low type-2 asthma**  
Holger Garn (Marburg, Germany), Fahd Alhamdan, Timm Greulich, Christian Daviaud, Leigh M. Marsh, Frauke Pedersen, Clemens Thölken, Petra I. Pfefferle, Thomas Bahmer, Daniel P. Potaczek, Jörg Tost
- OA4334** **Allergic inflammation modulates the adiponectin/adiponectin receptor 1 axis in lung regulatory T cells in vivo**  
Patricia Ramos-Ramirez (Glassboro, United States), Carina Malmhäll, Apostolos Bossios

- OA4335 Risk factors for asthma related hospital admissions in adults: Analysis of 1.2 million patients in England**  
Nicola Adderley (Birmingham, United Kingdom), Nikita Simms-Williams, Rasiah Thayakaran, Krishnarajah Nirantharakumar, Shamil Haroon, Prasad Nagakumar, Adel Mansur
- 
- OA4336 Adipocyte-fibroblast bidirectional crosstalk promotes features of fibrosis**  
Nour Jalaleddine (Beirut, Lebanon), Mellissa Gaudet, Qutayba Hamid, Saba Al Heialy
- 
- OA4337 Intermittent hypoxia exposure increases adipose insulin resistance and lipolysis in healthy humans: a randomized cross over trial.**  
Renaud Tamisier (Grenoble, France), Anne Briançon-Marjollet, Marie Netchitailo, Fanny Fabre, Elise Belaidi, Claire Arnaud, Anne-Laure Borel, Patrick Levy, Jean-Louis Pépin
- 
- OA4338 Adipokines in cachexia of patients with lung cancer**  
Armin Frille (Leipzig, Germany), Lukas Hofmann, Charlotte Frommelt, Malte Ossenberg, Jonas Oberhuber-Kurth, Johanna Pappisch, Teresa Kerkhoff, Nicolas Linder, Harald Busse, Thomas Ebert, Anke Tönjes, Sebastian Krämer, Hartmut Kuhn, Hubert Wirtz
- 
- OA4339 Discussion and Q&A**  
All Speakers

## Yellow 1+2+3

## Session 427

11:00 - 12:15

## Oral presentation: Highway one to chronic lung allograft dysfunction

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Pulmonary vascular diseases](#) [Thoracic oncology](#)

Method(s) : Transplantation Cell and molecular biology Imaging Pulmonary function testing

Tag(s) : Clinical

Chairs : Michael Perch (Copenhagen, Denmark), Berta Saez Gimenez (Barcelona, Spain)

- OA4340 Late Breaking Abstract - Functional prediction of post-operative lung physiology should really include diffusing capacity.**  
Sylvia Verbanck (Bruxelles, Belgium), Karolien Vekens, Dirk Smets, Shane Hanon, Eef Vanderhelst
- 
- OA4341 Does early scalloping of the flow volume loop predict chronic lung allograft dysfunction (CLAD)/bronchiolitis obliterans syndrome (BOS) and survival post lung transplantation?**  
Han Loong Tan (Kuala Lumpur, Malaysia), James L Lordan, Gerard Meachery, Gareth Parry, Andrew J Fisher, Arun Nair
- 
- OA4342 Mesenchymal stromal cells as rescue therapy for refractory Chronic Lung Allograft Dysfunction: preliminary data of an Italian monocentric cohort**  
Sara Lettieri (Pavia, Italy), Eleonora Bozza, Cecilia Bagnera, Sara Bozzini, Valentina Vertui, Stefania Croce, Chiara Valsecchi, Elisa Lenta, Antonia Avanzini, Federica Meloni, Patrizia Comoli
- 
- OA4343 Donor-derived cell-free DNA in chronic lung allograft dysfunction phenotypes**  
Hanne Beeckmans (Leuven, Belgium), H De Loor, Tessa Goeminne, Nilufer Acet Öztürk, Saskia Bos, Pieterjan Kerckhof, Janne Kaes, Vincent Geudens, Emanuela Cortesi, Céline Aelbrecht, Astrid Vermaut, Lynn Willems, Marie Vermant, Tinne Goos, Gitte Aerts, Charlotte Hooft, Yousry Mohamady, Xin Jin, Jan Van Slambrouck, Laurens Ceulemans, Laurent Godinas, Maarten Naesens, Bart Vanaudenaerde, Robin Vos
- 
- OA4344 Prediction of Chronic Lung Allograft Dysfunction by Serum KL-6 Levels**  
Marta Arjona Peris (Barcelona, Spain), Alberto Mendoza-Valderrey, Victoria Ruiz, Berta Saez-Gimenez, Marta Zapata-Ortega, Manuel Lopez-Meseguer, Maria Deu, Susana Gomez-Olles, Carlos Bravo, Cristina Berastegui
- 
- OA4345 Effects of extracorporeal photo-apheresis in CLAD patients: PBMCs release of exosomal-miRNAs, cytokines and growth factors**  
Sara Bozzini (Pavia, Italy), Cecilia Bagnera, Eleonora Bozza, Claudia Del Fante, Cesare Perotti, Federica Meloni
- 
- OA4346 The local immune response after murine lung transplantation**  
Pieterjan Kerckhof (Leuven, Belgium), Janne Kaes, Jin Xin, Celine Aelbrecht, Vincent Geudens, Arno Vanstapel, Charlotte Hooft, Lynn Willems, Jan Van Slambrouck, Lucia Aversa, Hanne Beeckmans, Gitte Aerts, Astrid Vermaut, Marta Zapata, Dirk Van Raemdonck, Yousry Mohamady, Laurent Godinas, Laurens De Sadeleer, John Mdonough, Laurens Ceulemans, Robin Vos, Bart Vanaudenaerde, Yildirim Önder, Francesca Polverino, Joselyn Rojas Quintero, Juan Cala Garcia
- 
- OA4347 Flow-cytometric assessment of T cell response to monitor immunosuppression**  
Torstein Watne (OSLO, Norway), Inga Leuckfeld, Arnt E. Fiane, Are M. Holm
- 
- OA4348 Significance of chest CT opacities prior to CLAD onset in restrictive allograft syndrome**  
Hanne Beeckmans (Leuven, Belgium), Pieterjan Kerckhof, Janne Kaes, Saskia Bos, Geert Verleden, Lieven Dupont, Laurent Godinas, Laurens Ceulemans, Dirk Van Raemdonck, Bart Vanaudenaerde, Robin Vos



**OA4349 Discussion and Q&A**  
All Speakers

**Amber 3+4 Session 428 11:10 - 14:00**

**Skills workshop: SW14 Thoracic ultrasound basic principles**

**Aims :** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** John Wrightson (Oxford, United Kingdom)

<b>11:10</b>	<b>Introduction</b> John Wrightson (Oxford, United Kingdom)	<b>4350</b>
<b>11:40</b>	<b>Normal Thoracic Cavity</b> Morten Bendixen (Skejby, Denmark), Casper Falster (Odense, Denmark)	<b>4351</b>
<b>11:40</b>	<b>Pleural effusion and/or pleural thickening</b> Giovanni Volpicelli (Torino (TO), Italy), Pia Iben Pietersen (Odense C, Denmark)	<b>4352</b>
<b>11:40</b>	<b>Case studies</b> Poppy Denniston (London, United Kingdom)	<b>4353</b>
<b>11:40</b>	<b>Guided interventions</b> Gilles Mangiapan (Creteil, France), Dinesh Addala (Oxford, United Kingdom)	<b>4354</b>

**Studio (White) Session 429 11:45 - 13:20**

**Year in review: Scientific year in review**

**Aims :** to provide an overview of basic and translational scientific highlights and major achievements in the respiratory field within the past year, focusing on abnormal lung tissue damage and repair; to provide an overview of various key publications that are expected to have a major impact on the respiratory field and with high clinical relevance based on promising results in preclinical models; to cover a variety of pulmonary diseases; to discuss the potential of novel therapeutic strategies to be translated into the clinic.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Paediatrician, Pathologist, Scientist (basic, translational)

**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), H. Irene Heijink (Groningen, Netherlands)

<b>11:45</b>	<b>Chronic obstructive pulmonary disease pathogenesis: understanding the contributions of gene-environment interactions across the lifespan in abnormal lung tissue damage and repair</b> Rosa Faner Canet (Barcelona, Spain)	<b>4355</b>
<b>12:00</b>	<b>Novel insights into the defective alveolar niche in chronic lung disease</b> Maor Sauler (North Haven, United States)	<b>4356</b>
<b>12:15</b>	<b>Discussion and Q&amp;A</b> All Speakers	<b>4357</b>
<b>12:30</b>	<b>Break</b> All Speakers	<b>4358</b>
<b>12:35</b>	<b>Novel proregenerative and antiageing targets for the treatment of fibrotic lung disease</b> Melanie Konigshoff (Pittsburgh, United States)	<b>4359</b>
<b>12:50</b>	<b>Tissue barrier dysfunction as a therapeutic target in pathogen-associated respiratory failure</b> Wolfgang M. Kübler (Berlin, Germany)	<b>4360</b>
<b>13:05</b>	<b>Discussion and Q&amp;A</b> All Speakers	<b>4361</b>

**12:15-13:15**

**INDUSTRY LUNCHTIME SYMPOSIUM**

**SEE PAGE 1**

PS-1 in poster area

Session 435

12:30 - 14:00

**Poster session: Clinical problems in respiratory medicine (1)****Disease(s)** : Airway diseases Interstitial lung diseases Thoracic oncology Respiratory critical care**Method(s)** : General respiratory patient care Pulmonary function testing Cell and molecular biology Epidemiology Public health Imaging Palliative care**Tag(s)** : Clinical**Chairs** : Margarida Afonso (Castelo Branco, Portugal), Pradeesh Sivapalan (Gentofte, Denmark)

- PA4379 Comparison of functional status in patients who have post-COVID lung injury or idiopathic pulmonary fibrosis**  
Deniz Kizilirmak (Manisa, Turkey), Secil Sari, Fatma Can, Yavuz Havlucu
- 
- PA4380 Can biomarkers predict survival in idiopathic pulmonary fibrosis?**  
Abdullah Kayikci (Eskisehir, Turkey), Fusun Alatas, Huseyin Yildirim
- 
- PA4381 Characteristics in patients with Progressive Fibrosing Interstitial Lung Disease (PFILD) treated with Nintedanib: data from a specialist centre**  
janet johnston (Manchester, United Kingdom), Lachlan Stranks, Kate Newman, Theresa Garfoot, Laurence Pearmain, Stefan Stanel, Conal Hayton, Colm Leonard, Greaves Melanie, Pilar Rivera-Ortega
- 
- PA4382 COPD assessment test (CAT) in patients with COPD and compensated heart failure**  
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Sanina, Tetyana Pertseva, Tamara Turlyun
- 
- PA4383 Unexplained or refractory chronic cough and mental health disorders: review of this relationship and response to pregabalin therapy**  
Mathieu Saint-Pierre (Ottawa, Canada)
- 
- PA4384 Factors involved in poor asthma medication adherence and barriers to the control of the disease**  
Ahmed Dhia El Euch (Sfax, Tunisia), Younes Asma, Rahma Gargouri, Souha Abdenneji, Rim Khemakhem, Ilhem Yangui, Walid Feki, Sammy Kammoun
- 
- PA4385 Humoral and cellular immunity monitoring of Sinopharm/BBIBP COVID-19 vaccine**  
Zhangkai Cheng (Guangzhou, China), Huimin Huang, Peiyan Zheng, Mingshan Xue, Zhiman Liang, Baoqing Sun
- 
- PA4386 Exploring secondary breathlessness outcomes: the Morphine vs Placebo trial**  
Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sandra Louw, Philip Mccloud, Miriam Johnson, Katherine Clark, David Currow
- 
- PA4387 Oxygen prescribing: can we meet the desired standards?**  
Laura White (Manchester, United Kingdom), Kamal Ibrahim, Zartasht Carmichael, Kyle Cromey
- 
- PA4388 Responder rates in patients with acute cough treated with ivy leaves dry extract clearly exceed placebo response**  
Ralph Mösges (Köln, Germany), Esther Raskopf, Andreas Völp
- 
- PA4389 A Composite Screening Method to maximise the Detection-Rate of Obstructive Sleep Apnoea in Train Drivers**  
Syeda Nafisa (Nottingham, United Kingdom), Lanre Ogunyemi, Tanya Stacey, Milind Sovani
- 
- PA4390 Rigorous cardiac assessment helps clarify causes of recurrent admission in patients with COPD**  
Arun Prasad (Gateshead, United Kingdom), Joseph Kibbler, Eduwin Pakpahan, David P Ripley, Stephen C Bourke, John Steer
- 
- PA4391 Efficacy of Blonanserin Transdermal Patch on Terminal Delirium in Patients with Respiratory Diseases**  
Katsutoshi Ando (Meguro, Japan), Ayumi Suzuki, Azumi Motosaku
- 
- PA4392 Knowledge of COPD among Adults in Saudi Arabia's Eastern Province: An interim Results**  
Jaber S. Alqahtani (Dammam, Saudi Arabia), Areej Hassan Alamri, Roaa Saleh Bajahlan, Afrah Fahad Alanazi, Asalah Ahmed Hakami
- 
- PA4393 Factors associated with treatment failure in an adult population of chronic coughers**  
Alessia Catalisano (Firenze, Italy), Mariangela Cascio Mariana, Claudia Mannini, Guja Bernacchi, Giovanni Colapietro, Giovanni Fontana, Federico Lavorini
- 
- PA4394 Respiratory symptoms (RS) and pulmonary function (PF) in patients (pts) with chronic lymphoproliferative diseases (CLPD)**  
Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko
- 
- PA4395 Characterisation of progressive fibrosing phenotype (PF-ILD) in patients with hypersensitivity pneumonitis (HSP)**  
Ahmed Suleman Haque (Gillingham, United Kingdom), Katherine Brignall, Shanthi Paramothayan, Vijayakumar Ganesh

**PA4396 Bronchiolitis obliterans syndrome after hematopoietic stem cell transplantation - single center experience**  
Özlem Isik (Ankara, Turkey), Güldane Cengiz Seval, Serhat Erol, Selami Koçak Toprak, Özlem Özdemir Kumbasar

**PA4397 Biologic agents in idiopathic hypereosinophilic syndrome: a case series**  
Ourania Papaioannou (Patras, Greece), Theodoros Karampitsakos, Eirini Zarkadi, Panagiota Tsiri, Electra Koulousousa, Eva Theochari, Vasilina Sotiropoulou, Georgios Tsirikos, Ioannis Christopoulos, Matthaios Katsaras, Elli Malakounidou, Vassiliki Georgiopolou, Kyriakos Karkoulas, Dimosthenis Lykouras, Alexandros Kaparianos, Dionysios Papalexatos, Fotios Sampsonas, Argyrios Tzouvelekis

**PA4398 Blood biomarkers in patients with Alpha-1 Antitrypsin Deficiency from the EARCO CRC Registry**  
Cristina Aljama Vizcarra (Reus, Spain), Alexa Nuñez, Cristina Esquinas, Hanan Tanash, Eva Bartošovská, Gerard Orriols, Georgina Farago, Galo Granados, Miriam Barrecheguren, Marc Miravittles

**PS-10 in poster area Session 436 12:30 - 14:00**

**Poster session: Subverted inflammation and remodelling in defining the pathogenesis of airways disease**

**Disease(s) :** [Airway diseases](#)

**Method(s) :** Cell and molecular biology Imaging Endoscopy and interventional pulmonology

**Tag(s) :** Basic science, Translational

**Chairs :** Susanne Krauss-Etschmann (Borstel, Germany), Patricia Ramos-Ramírez (Glassboro, United States)

**PA4399 Claudin-3 deficiency attenuated ovalbumin-induced airway hyperresponsiveness and eosinophilic airway inflammation in mice**  
Ayaka Shiota (, Japan), Yumiko Ishii, Keiko Kan-O, Tomohiro Ogawa, Norio Yasamamoto, Seiji Shinozaki, Storu Fukuyama, Koichiro Matsumoto, Sachiko Tsukita, Isamu Okamoto

**PA4400 Regulation of eosinophil function in allergic airway inflammation by lysosome**  
Yinling Han (Hangzhou, China), Yun Zhao, Songmin Ying, Wen Li, Zhihua Chen, Huahao Shen

**PA4401 Effect of IL-3, IL-5 and GM-CSF on reactive oxygen species production by blood eosinophil subtypes in allergic asthma**  
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacionyte, Kestutis Malakauskas

**PA4402 Chemokine Receptor CCR1: A New Target for Asthma Treatment**  
Huahao Shen (Hangzhou, China), Zhehua Shao, Chao Zhang, Xufei Du, Yan Zhang, Songmin Ying

**PA4403 Biased signaling of chemokine receptor CCR1 in asthma**  
Zhehua Shao (Hangzhou, China), Qingya Shen, Bingpeng Yao, Songmin Ying, Yan Zhang, Huahao Shen

**PA4404 Airway inflammation alters mast cell-related responses in isolated guinea pig intra-lobular bronchi**  
Jielu Liu (Vallentuna, Sweden), Yujiao Xiang, Mu Nie, Anthony Wong, Jesper Säfholm, Mikael Adner

**PA4405 Defining the prostanoid component in mast cell-dependent constriction of isolated human small airways**  
Jesper Säfholm (Solna, Sweden), Sven-Erik Dahlén, Mikael Adner

**PA4406 Biological and biochemical analysis of T cell derived bronchoconstriction**  
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Kouyama, Akemi Ohtomo-Abe, Yuichiro Kawasaki, Maki Iwata, Yuto Nakamura, Yuto Hamada, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Takayuki Ohtomo, Osamu Kaminuma

**PA4407 Peripheral innate lymphoid cell and T cell phenotypes are associated with treatable traits in young adults with asthma**  
Maura Kere (Stockholm, Sweden), Sophia Björkander, Christopher Andrew Tibbitt, Jenny Mjösberg, Erik Melén

**PA4408 IgE+ PCs arise in lung draining lymph nodes during HDM exposure, acquire distinct phenotype over time and accumulate in the bone marrow after chronic allergic inflammation**  
Andrea Vecchione (Tarrytown, United States), Navneet Kaur, Li-Hong Ben, Andrew Murphy, Matthew Sleeman, Andre Limnander, Seblewongel Asrat, Jamie Orengo

**PA4409 NLRP3 affects airway responsiveness in an OVA and ozone-induced asthma model with neutrophil infiltration through regulation of IL-1 $\beta$**   
Yishu Xue (Shanghai, China), Yilin Pan, Lei Zhao, Huijuan Hao, Min Zhang, Wuping Bao

**PA4410 Development of OVA induced allergic airway inflammation emerge with gut inflammatory manifestations**  
Balachandar Selvakumar (Sharjah, United Arab Emirates), Mariam Wed Eladham, Shirin Hafezi, Narjes Sahebsharif-Askari, Ola Salam Bayram, Fatemeh Sahebsharif-Askari, Saleh Ibrahim, Rabih Halwani

- PA4411** **The role of Gln27Glu polymorphism of the  $\beta$ 2-adrenoreceptor gene in asthma development**  
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa
- 
- PA4412** **Early-life dysbiosis increases airway hyperresponsiveness in mice**  
Schmaiel Shirdel (Lübeck, Germany), Jaclyn W. Mcalees, Adrienne N. Wilburn, Yves Laumonier, Jan Rupp, Simon Graspentner, Peter König, Ian P. Lewkowich, Inken Schmutde
- 
- PA4413** **The role of mTOR in Particulate Matter induced steroid-resistant asthma mouse model**  
Hyun Seung Lee (Seoul, Republic of Korea), Heung-Woo Park, Kyoung-Hee Lee
- 
- PA4414** **Loss of small airway attachments during ageing in healthy subjects**  
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Dave Singh
- 
- PA4415** **Late Breaking Abstract - Effect of inhaled triple therapy on small airway remodeling in patients with moderate to severe COPD accessed by endobronchial optical coherence tomography**  
Guo Zuyuan (Guangzhou, China), Zhou Ziqing, Li Shiyue, Zhong Nanshan
- 
- PA4416** **Profiling of B cell signatures and eosinophils in COPD lung tissues**  
Julia Mercier (Lund, Sweden), Renan Marrichi Mauch, Premkumar Siddhuraj, Manar Alyamani, Jimmie Jönsson, Caroline Lindö, Caroline Sanden, Hodan Abdshill, Daisy Bornesund, Jonas Sten Erjefält
- 
- PA4417** **Profiling of CD4 and CD8 T cells in relation to eosinophil infiltration in COPD lungs**  
Renan M. Mauch (Lund, Sweden), Julia Mercier, Manar Alyamani, Premkumar Siddhuraj, Jimmie Jönsson, Johan Ahlgren, Caroline Lindö, Caroline Sandén, Daisy Bornesund, Hodan Abdshill, Jonas S. Erjefält
- 
- PA4418** **Association of Th1/Th2 phenotype with changes in the frailty status among COVID-19 older survivors**  
Daniela Cataneo (Mexico City, Mexico), Leslie Chavez-Galan, Ranferi Ocaña-Guzman, Armando Castorena-Maldonado, Ivette Buendía-Roldán

**PS-11 in poster area** **Session 437** **12:30 - 14:00**

**Poster session: Chronic cough, bronchitis, and major chronic respiratory diseases**

**Disease(s)** : Airway diseases Thoracic oncology

**Method(s)** : Public health Epidemiology General respiratory patient care Pulmonary function testing

**Tag(s)** : Clinical

**Chairs** : Imran Satia (Hamilton, Canada), Om Prakash Kurmi (Coventry, United Kingdom)

- PA4419** **Is refractory chronic cough a genetic disease?**  
Laurent Guilleminault (Toulouse Cedex, France), Pauline Chazelas, Boris Melloni, Corinne Magdelaine, Thomas Villeneuve, Danielle Brouquières, Anne-Sophie Lia, Laurent Magy
- 
- PA4420** **A register-based study; Chronic Cough in the adult population in Sweden**  
Lotta Walz (Linköping, Sweden), Össur Emilsson, Kristoffer Illergård, Henrik Johansson
- 
- PA4421** **Comparison of differences in refractory and unexplained chronic cough patients in Germany: VICHAS study**  
Christina Jannowitz (Munich, Germany), Peter Kardos, Heinrich Worth, Martin Horack, Ulrich Köhler, Barbara Karmann, Adrian Gillissen
- 
- PA4422** **Heterogeneity in reporting respiratory symptoms: a global survey**  
Alexander Müller (Wien, Austria), Hazim Abozid, Emiel Wouters, Sylvia Hartl, Daisy Janssen, André Amaral
- 
- PA4423** **Heritability of cough across two generations: the RHINESSA study**  
Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ane Johannessen, Christer Janson, Andreas Palm, Karl Franklin, Anna Oudin, Francisco Gómez Real, Mathias Holm, Thorarinn Gislason, Rain Jögi, Vivi Schlünssen, Andrei Malinovschi, Cecilie Svanes, Magnus Ekström
- 
- PA4424** **The association between indoor airborne bacteria and allergic respiratory diseases – a Northern European study**  
Christine Cramer (Aarhus, Denmark), Hesham Amin, Christer Janson, Rain Jogi, Tejs Ehlers Klug, Henrik Albert Kolstad, Dan Norback, Torben Sigsgaard, Tina Šantl-Temkiv, Hulda Thorarinsdottir, Randi Jacobsen Bertelsen, Vivi Schlünssen
- 
- PA4425** **K-means cluster analysis of characteristic patterns of allergen in different age: real life study**  
Lei Zhao (Shanghai, China), Yong Ji, Jie Fang, Yingying Zhang, Xin Zhou, Junfeng Yin, Min Zhang, Wuping Bao
- 
- PA4426** **Maternal asthma and the role of stress, sensitisation, and lung function on pregnancy outcomes – a cohort study**  
Gustaf Rejnö (Bromma, Sweden), Cecilia Lundholm, Bronwyn Brew, Catarina Almqvist
- 
- PA4427** **Comorbidity between inflammatory bowel disease and asthma and allergic diseases - a genetically informed study**  
Tong Gong (Stockholm, Sweden), Bronwyn Brew, Cecilia Lundholm, Awad Smew, Arvid Harder, Ralf Kuja-Halkola, Jonas F Ludvigsson, Yi Lu, Catarina Almqvist

- PA4428** **Prevalence of refractory and unexplained chronic cough patients in Germany: VICHAS study**  
Christina Jannowitz (Munich, Germany), Peter Kardos, Heinrich Worth, Martin Horack, Barbara Karmann, Adrian Gillissen
- 
- PA4429** **Outcomes in pregnant Ontarians with asthma and allergic diseases during COVID-19**  
Emilie Terebessy (Toronto (ON), Canada), Jingqin Zhu, Kimball Zhang, Cornelia M. Borkhoff, Andrea Gershon, Tetyana Kendzerska, Smita Pakhale, Nicholas T. Vozoris, Christopher Liciskai, Teresa To
- 
- PA4430** **Blood basophils, nocturnal cough and asthma in the Constances cohort**  
Rachel Nadif (Villejuif, France), Joseph Henny, Tajidine Tsiavia, Celine Ribet, Marcel Goldberg, Marie Zins, Laurent Orsi, Nicolas Roche
- 
- PA4431** **Impact of chronic pain in adult-onset asthma**  
Sofia Winsa Lindmark (Luleå, Sweden), Caroline Stridsman, Linnea Hedman, Nikolai Stenfors, Tomi Myrberg, Anne Lindberg, Eva Rönmark, Helena Backman
- 
- PA4432** **Characteristics of severe asthma patients included in the French Palomb Cohort.**  
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouaalaya, Annaïg Ozier, Cécilia Nocent, Alain Bernady, Laurent Nguyen, Emilie Berteaud, Magali Dupuy-Grasset, Frédéric Le Guillou, Boris Melloni, Laurent Portel, Anne Prud'Homme, Alain Didier, Mathieu Molimard, Laurent Guilleminault, Chantal Raheison-Semjen
- 
- PA4433** **Adults with a history of severe childhood asthma compared to the background population: A registry-based study**  
Osman Savran (Hvidovre, Denmark), Charlotte Suppli Ulrik, Klaus Bønnelykke
- 
- PA4434** **Risk factors associated with symptoms of asthma in India**  
Nishtha Singh (Jaipur (Rajasthan), India), Sheetu Singh, Meenu Singh, Sundeep Salvi, Daya Krishan Mangal, Shally Awasthi, Padukudru Anand Mahesh, Sushil K. Kabra, Sabir Mohammed, Thevaruparambil U. Sukumaran, Alope G. Ghoshal, Monica Barne, Sanjeev Sinha, Sanjay K. Kochar, Udaiveer Singh, Kamalesh Kumar Patel, Arvind Kumar Sharma, Bhushan Girase, Anil Chauhan, Niranjan Sit, Jayaraj B. Siddaiah, Virendra Singh
- 
- PA4435** **Prevalence and Epidemiological Characteristics of Incidental Pulmonary Nodules in China: A Prospective Multicenter Trial of 10,560 Cases**  
Wenhua Liang (Guangzhou, China), Bo Wang, Jian Zhang, Dan Liu, Minhua Peng, Jianxing He, Jianbing Fan, Nanshan Zhong, - On Behalf Of The Nct 03651986 Trial Investigators
- 
- PA4436** **Estimation of RSV-attributable hospitalizations and deaths in Spain between 2015–2019**  
Mariana Haerberer (ALCOBENDAS, Spain), Antoni Torres, Robin Bruyndonckx, Aleksandra Polkowska-Kramek, Charles Nuttens, Francesca Lemme, Thao Mai Phuong Tran, Caihua Liang, Cristina Mendez Diaz, Bradford Gessner, Elizabethh Begier
- 
- PA4437** **Clinical Characteristics of Non-Malignant Effusions: Results from the ERS International Collaborative Effusion (ICE) Database**  
Hugh Welch (Bristol, United Kingdom), J Kerkhoff, J Janssen, S Bielsa, C Civit, J Porcel, K Fjaellegaard, J Petersen, U Bodtger, E Grabczak, R Krenke, M Ellayah, D Addala, R Hallifax, J Wrightson, N Rahman, K Jackson, E Pellas, I Khan, M Chohan, A Aujayeb, G Labarca, I Dhaliwal, M Mitchell, A Rozman, M Marc-Malovrh, S Anevlavis, M Foudrakis, P White, R Bhatnagar, N Maskell
- 
- PS-12 in poster area** **Session 438** **12:30 - 14:00**
- Poster session: Epidemiology in pulmonary function and sleep-disturbed breathing in children**
- Disease(s) :** Sleep and breathing disorders
- Method(s) :** General respiratory patient care Physiology Epidemiology Public health Pulmonary function testing Imaging Cell and molecular biology Respiratory intensive care
- Tag(s) :** Clinical
- Chairs :** Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)
- 
- PA4438** **Utility of overnight oximetry indices in the evaluation of children with suspected Obstructive Sleep Apnea**  
Yu Qian Koh (Singapore, Singapore), Arun Pugalenthil, Yi Hua Tan, Ooh Hoe Teoh, Zai Ru Cheng, Duo Tong Cheng, Anne Goh, Oh Moh Chay, John Carson Allen Jr, S G Tan, M Lim, Jasmine Tan, Biju Thomas
- 
- PA4439** **One night home pulse oximetry is sufficient in the investigation of sleep disordered breathing**  
Jane Doran (Dublin, Ireland), Susan Keogh, Aidan Beegan, Ruth O'Reilly
- 
- PA4440** **Clinical characteristics of children with positive Pediatric Sleep Questionnaire with or without hypoxemia**  
Magdalena Vocos (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primerose, Marcela Roque, Juan Manuel Figueroa
- 
- PA4441** **Nocturnal Carbon Dioxide recording in children without comorbidities according to obstructive sleep apnoea**  
Julie Cassibba (Paris, France), Houda Guillo-Saleh, Marie-Claude La Rocca, Nicole Beydon

- PA4442 Comparison of mobile video clips, questionnaire and polygraphy parameters for detection of pediatric obstructive sleep apnea**  
Refika Hamutcu Ersu (Ottawa, Canada), Henrietta Blinder, Naomi Dussah, Vid Bijelic, Nick Barrowman, Sherri Lynne Katz
- PA4443 Idiopathic Apnea In Term Newborns And Infants Under 6 Months Of Age: A Multicenter Study**  
Jean-marc Gilardoni (Nice, France), Julie Mazaenq, Anne-Marie Maillote, Isabelle Pin, Geraldine Labouret, Océane Cheyrou, Antoine Tran, Jessica Taytard, Lisa Giovannini-Chami
- PA4444 Inter-rater reliability of video clips to assess for obstructive sleep apnea in children**  
Refika Hamutcu Ersu (Ottawa, Canada), Henrietta Blinder, Naomi Dussah, Vid Bijelic, Nick Barrowman, Sherri Lynne Katz
- PA4445 Home sleep studies in children with neurodisabilities: any impact on clinical decision making?**  
Mihaela Diaconu (London, United Kingdom), Andrew Bush, Hui-Leng Tan
- PA4446 Evaluation of sleep disordered breathing in children with allergic rhinitis**  
Zeynep Reyhan Onay (Istanbul, Turkey), Sinem Toprak, Deniz Mavi, Sinem Can Oksay, Gulay Bilgin, Yasemin Mocan Caglar, Begum Yoruk, Ozge Ulgen, Saniye Girit
- PA4447 Reproducibility of home spirometry in children with neuromuscular disease**  
miriam murlis (cambridge, United Kingdom), Laura Lowndes, Ashleigh Gibby, Theofilos Polychronakis
- PA4448 Validation of the conditional change score for FEV1 in children with asthma**  
Andrew Zikic (Toronto, Canada), David Wilson, Lucy Perrem
- PA4449 Oxygen therapy in infants with extreme periodic breathing**  
Luana Nosetti (Luino (VA), Italy), Marta Vergani, Marco Zaffanello, Massimo Agosti, Simri Sleep Disordered Breathing Group
- PA4450 The effect of being born moderate-late preterm on lung function at 9 years**  
Cassidy Du Berry (Melbourne, Australia), Liam Welsh, Nicole Westrupp, Tara Fitzgerald, Rheanna Mainzer, Sarath Ranganathan, Lex Doyle, Jeanie Cheong
- PA4451 Early-life risk-factors determine distinct lung function trajectories for those born preterm**  
Elizabeth Smith (Beaconsfield (WA), Australia), Rachel Foong, Naomi Hemy, Graham Hall, Andrew Wilson, Shannon Simpson
- PA4452 Progression of structural lung abnormality from 11 to 19 years in those born <32 weeks.**  
Andrew Wilson (Perth (WA), Australia), Elizabeth Smith, Conor Murray, Jasmine Grdosic, Naomi Hemy, Graham Hall, Shannon Simpson
- PA4453 Investigating the relationship between inflammatory biomarkers and lung function in survivors of very preterm birth**  
Denby Evans (Nedlands, Australia), Jake Puglia, Rhea Urs, Tiffany Bradshaw, Naomi Hemy, Elizabeth Smith, Shannon Simpson
- PA4454 Do childhood cancer survivors have reduced pulmonary function compared to healthy individuals?**  
Elisabeth Edvardsen (Oslo, Norway), Mari Bratteteig, Norunn Iren Matthews, Thomas Halvorsen, Ellen Ruud, Trine Stensrud
- PA4455 Could chronic obstructive pulmonary disease be a pediatric condition?**  
Amani SAYHI (tunis, Tunisia), Khansa Derbel, Soumaya Khaldi, Balsam Barkous, Yosra Abdelhedi, Arwa Yahyaoui, Mariem Abdesslem, Fatma Guezguez, Ines Ghannouchi, Sonia Rouatbi
- PA4456 Efficacy of melatonin in children with chronic somatic cough**  
Ahmad Kantar (Bergamo (BG), Italy)
- PA4457 Late Breaking Abstract - A novel CPAP device with an integrated oxygen concentrator for low-resource countries: in vitro validation and usability test in field**  
Sofia Poletto (Milan, Italy), Emanuela Zannin, Giovanni Putoto, Moses Obizu, Samuel Okori, Jerry Ichto, Peter Lochoro, Raffaele L. Dellacà

PS-13 in poster area

Session 439

12:30 - 14:00

Poster session: Non-cystic fibrosis bronchiectasis and other chronic lung infections in children

**Disease(s) :** Airway diseases Interstitial lung diseases**Method(s) :** General respiratory patient care Imaging Pulmonary function testing Epidemiology Public health Cell and molecular biology**Tag(s) :** Clinical, Translational**Chairs :** Myrofora Goutaki (Bern, Switzerland), Marijke Proesmans (Leuven, Belgium)

- PA4458 Is it time to change diagnostic criteria for paediatric bronchiectasis?**  
Aisha Mir (Edinburgh, United Kingdom), Kirstin Unger, Alan Quigley, Stefan Unger
- 
- PA4459 Paediatric non-CF bronchiectasis: a cross-sectional study**  
HELEANNE VAN KUIJK (Leicester, United Kingdom), Manisha Ramphul
- 
- PA4460 International consensus statement on core outcomes for clinical trials in children and adolescents with bronchiectasis – Child-BEAR-net ERS CRC**  
Carolina Arez Constant (Lisboa, Portugal), Jeanette Boyd, Andrew Bush, Adam T Hill, Zena Powell, Angela Zacharasiewicz, Efthymia Alexopoulou, Andrew J Collaro, James D Chalmers, Kostas Douros, Rebecca Fortescue, Matthias Griese, Jonathan Grigg, Andreas Hector, Bulent Karadag, Oleksandr Mazulov, Fabio Midulla, Alexander Möller, Marijke Proesmans, Christine Wilson, Stephanie T Yerkovich, Keith Grimwood, Ahmad Kantar, Anne B Chang
- 
- PA4461 Predictive factors of bad outcomes in pediatric bronchiectasis**  
Besma Hamdi (Tunis, Tunisia), Sabrine Louhaichi, Ella Nemsy, Tarek Cherif, Khoulood Chaibi, Jamel Ammar, Agnès Hamzaoui
- 
- PA4462 Do distinct etiologies cause clinical differences in non-CF bronchiectasis in children?**  
Meltem Akgül erdal (ANKARA, Turkey), Halime Nayır Büyüksahin, İsmail Güzelkaş, Birce Sunman, Didem Alboğa, Hanife Avcı, Nagehan Emiralioglu, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik
- 
- PA4463 Does timing of diagnosis effect outcome in primary ciliary dyskinesia?**  
Dvir Gatt (Toronto, Canada), Michelle Shaw, Fiona Kritzing, Melinda Solomon, Sharon Dell, Felix Ratjen
- 
- PA4464 Nasal Mucociliary Clearance of 99mTc-albumin colloid: a quantitative test of nasal ciliary function and potential outcome parameter in primary ciliary dyskinesia**  
June Kehlet Marthin (Bagsvaerd, Denmark), Kim Gjerum Nielsen, Jann Mortensen
- 
- PA4465 Use of Immunofluorescence Staining in Primary Ciliary Dyskinesia Diagnosis**  
Mine Kalyoncu (Istanbul, Turkey), Rim Hjeij, Mürüvvet Yanaz, Aynur Gulieva, Merve Selçuk, Şeyda Karabulut, Neval Metin Çakar, Pınar Ergenekon, Ela Erdem Eralp, Yasemin Gokdemir, Heymut Omran, Bulent Karadağ
- 
- PA4466 Repeating ciliary videomicroscopy improves the specificity for PCD diagnosis**  
Lionel Benchimol (Liege, Belgium), Noemie Bricmont, Romane Bonhiver, Doriane Calmes, Anne-Lise Poirrier, Marie-Christine Seghaye, Renaud Louis, Philippe Lefebvre, Celine Kempeneers
- 
- PA4467 Genomics of Haemophilus influenzae strains in a paediatric Primary Ciliary Dyskinesia cohort**  
Klara Schmidthaler (Vienna, Austria), René Gaupmann, Magda Diab-El Schahawi, Birgit Willinger, Zsolt Szépfalusi, Eleonora Dehlink
- 
- PA4468 Disease manifestations in siblings with primary ciliary dyskinesia**  
Dvir Gatt (Toronto, Canada), Michelle Shaw, Fiona Kritzing, Melinda Solomon, Sharon Dell, Felix Ratjen
- 
- PA4469 Patterns of E-cigarette Usage Among Adolescents with Primary Ciliary Dyskinesia and Cystic Fibrosis**  
Dvir Gatt (Toronto, Canada), Rahul Verma, Jacob Mccoy, Lyzette Garcia Bonila, Andrew Zikic, Shaima Alkhouri, Rawan Alfouzan, Kate Gent, Jackie Chiang
- 
- PA4470 Nurse led Education on e-cigarette use in adolescents.**  
Mira Osinibi (London, United Kingdom), Cara Bossley
- 
- PA4471 A novel pediatric polycystic lung disease caused by CCR2 deficiency**  
Bruce Trapnell (Cincinnati, United States), Anna-Lena Neehus, Marija Landekic, Darawan Rinchai, Patricia Panikulam, Quentin Philippot, Tom Le Voyer, Masato Ogishi, Jérémie Rosain, Mana Momenilandi, Carlos Andrés Arango Franco, Marta Martin-Fernandez, Taushif Khan, Jonathan Bohlen, Jeremy Manry, Ji Eun Han, Alexandre Deslys, Tania Gajardo-Carrasco, Camille Soudée, Melanie Migaud, Yoann Seeleuthner, Eirini Nikolouli, Simin Seyedpour, Hugues Begueret, Chantal Brouzes, Pablo Vargas, Nico Lachmann, Raphael Boire, Nico Marr, Dusan Bugonovic, Mohammadreza Modaresi, Larry Noguee, Daniel Craven, Iraj Mohamadzadeh, Nima Rezai, Mohammad Shahrooei, Stephanie Boisson-Dupuis, Fernando Sepulveda, Vivien Béziat, Nathalie Aladjidi, Laurent Abel, Philippe Gros, Danielle Malo, Lisa Young, Robin Deterding, Gail Deutsch, Brenna Carey, Jean-Laurent Casanova, Jacinta Bustamante
- 
- PA4472 Multiple-breath washout for the detection of lung disease in patients with inborn errors of immunity**  
Leonie Marie Busack (Berlin, Germany), Stephanie Thee, Yvonne Liu, Christine Allomba, Niklas Ziegahn, Apolline Tosolini, Charlotte O. Pioch, Alexandra N. Schnorr, Bent R. Fuhlrott, Olga Staudacher, Mirjam Völler, Eva Steinke, Leif G. Hanitsch, Jobst Röhmel, Renate Krüger, Marcus A. Mall, Horst Von Bernuth, Mirjam Stahl

- PA4473** **Respiratory care burden in children with aspiration**  
Christopher Edwards (Leeds (West Yorkshire), United Kingdom), Jennifer Unwin, Ayesha Jannat, Liz Franklin
- 
- PA4474** **Evaluation of sputum cultures in children with spinal muscular atrophy**  
Hagit Levine (Even Yehuda, Israel), Yoram Nevo, Julia Katz, Huda Mussaffi, Gabriel Chodick, Meir Mei-Zahav, Stafler Patrick Stafler, Guy Steuer, Ophir Bar-On, Hadas Mantin, Dario Prais, Sharon Aharoni
- 
- PA4475** **Effects of selumetinib treatment for neurofibromatosis type 1 on pulmonary function in children and young adults**  
Elettra Zuliani (Trieste, Italy), Sergio Ghirardo, Francesco Baldo, Irene Bruno, Andrea Magnolato, Egidio Barbi, Massimo Maschio
- 
- PA4476** **Late Breaking Abstract - Management of RRTIs in children with the Trained Immunity-based Vaccine MV130: A retrospective study**  
Laura Conejero Hall (Madrid, Spain), Karla Montalbán, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, José Luis Subiza
- 
- PA4477** **Late Breaking Abstract - Bronchiolitis epidemiology and clinical features: a retrospective analysis**  
Luigi Matera (Rome, Italy), Raffaella Nenna, Enea Bonci, Antonella Frassanito, Laura Petrarca, Maria Giulia Conti, Greta Di Mattia, Enrica Mancino, Chiara Moriano, Fabio Midulla

## PS-14 in poster area

## Session 440

12:30 - 14:00

## Poster session: Lung transplantation

Disease(s) : [Airway diseases](#) [Pulmonary vascular diseases](#) [Respiratory critical care](#) [Interstitial lung diseases](#)

Method(s) : Transplantation Physiology General respiratory patient care Respiratory intensive care Epidemiology Pulmonary function testing Pulmonary rehabilitation Cell and molecular biology Endoscopy and interventional pulmonology Imaging Surgery Palliative care

Tag(s) : Clinical, Translational

Chairs : Peter Jaksch (wien, Austria), Merel Hellemons (Rotterdam, Netherlands)

- PA4478** **Central versus peripheral adaptations after lung transplantation in patients with end-stage chronic obstructive pulmonary disease**  
Jacob Peter Hartmann (København V, Denmark), Camilla Koch Rysør, Thomas Kromann Lund, Michael Perch, Pia Thaning, Lasse Gliemann, Ylva Hellsten, Gregers Winding Munch, Bente Klarlund Pedersen, Ronan Martin Griffin Berg, Ulrik Winnig Iepsen
- 
- PA4479** **ECG-based detection of an atrial cardiomyopathy allows identification of patients at risk for postoperative supraventricular arrhythmias after lung transplant**  
Paula Kuss (Freiburg, Germany), Martin Eichenlaub, Ina Hettich, Sebastian Fährndrich, Björn Frye, Daiana Stolz
- 
- PA4480** **Regional spirometry by electrical impedance tomography in the postoperative follow-up of Single-Lung Transplantation: Case series**  
Ignacio Fernández Ceballos (Buenos Aires, Argentina), Joaquin Ems, Miriam Gabriela Marcos, Leiniker Navarro Rey, Juan Martín Nuñez Silveira, Emilio Steinberg, Julieta Gonzalez Anaya, Indalecio Carboni Bisso, Graciela Svetliza, Maria Laura Orazi, Enrique Beveraggi, Marcos Las Heras, Gabriel Elias Vega
- 
- PA4481** **The association between neutrophil-lymphocyte ratio and short-term survival after lung transplantation.**  
Hyeon Kyeong Bae (seoul, Republic of Korea), Eun Young Kim, A La Woo, Moo Suk Park, Ha Eun Kim, Jin Gu Lee, Su Hwan Lee
- 
- PA4482** **MI-Edon study: the role of respiratory physiotherapy as a tool for the optimization of the lung donor.**  
Gonzalo Ballesteros Reviriego (Algeciras, Spain), Irene Bello Rodríguez, Eduardo Miñambres, Jose María Mancaño, Bernat Planas Pascual, Joan Daniel Martí, Ángela Suarez, Joan Marcobal, Aroa Gómez Brey, Christopher Mazo, María Deu, David Paredes, Gerard Sanchez, Marc Boada, Alba Gómez Garrido, Belén Garcés, Meritxell Peñalver, Adriana Martín, Andrea Pérez, Alberto Sandiumenge Camps
- 
- PA4483** **Survival of idiopathic pulmonary fibrosis patients treated with antifibrotics versus lung transplantation**  
Martina Šterclová (Praha, Czech Republic), Monika Zurkova, Vladimira Lostakova, Martina Plackova, Radka Mokosova, Vladimir Bartos, Martina Doubkova, Lubica Sykorova, Ladislav Lacina, Michaela Cimrova, Pavlina Lisa, Radka Bittenglova, Hana Suldova, Pavlina Musilova, Jana Psikalova, Tomas Dolezal, Petra Ovesna, Lucie Valentova-Bartakova, Robert Lischke, Martina Koziar-Vasakova
- 
- PA4484** **Peripheral airway monitoring in lung transplant recipients using IOS and MBW**  
Madeleine Driskel (Manchester, United Kingdom), John Blaikley, Karthik Santhanakrishnan, Catherine Fullwood, Rajamiyer Venkateswaran, Alex Horsley
- 
- PA4485** **Nezulcitinib (TD-0903), an inhaled JAK inhibitor reduces ConA-induced lung inflammation and lung injury in mice**  
Edmund Moran (South San Francisco, United States), Elad Kaufman, Reuben Sana, Joseph Chen, Matthew Frates, Ilaria Badagnani, Glenmar Obedencio, David Bourdet



- PA4486** **Effect of paclitaxel and methotrexate associated with cholesterol-rich nanoemulsions on ischemia-reperfusion injury after unilateral lung transplantation in rats**  
Rogerio Pazetti (São Paulo (SP), Brazil), Angela Battochio, Elaine Tavares, Aristides Correia, Francine Almeida, Priscila Carvalho, Maria Guido, Paulo Pêgo-Fernandes, Raul Maranhão
- PA4487** **Pre-lung transplant VO<sub>2</sub>max predicts functional outcomes post-lung transplantation**  
Emma Bakelants (Kessel-Lo, Belgium), Hanne Beeckmans, Marius Brusselmans, Geert Verleden, Lieven Dupont, Laurent Godinas, Dirk Van Raemdonck, Laurens Ceulemans, Geert Celis, Iris Coosemans, Wim Janssens, Stephanie Everaerts, Robin Vos
- PA4488** **Virtual home-based pre-habilitation program in lung transplant candidates**  
Tania Janaudis-Ferreira (Montréal (QC), Canada), Nicholas Bourgeois, Larry C Lands, Karina Prévost, Charles Poirier
- PA4489** **Low baseline FVC predicts enhanced risk of CLAD and death in lung transplant recipients**  
Henrik Mangseth (Oslo, Norway), Michael Thomas Durham, Inga Leuckfeld, Are Martin Holm
- PA4490** **Functional pattern of baseline lung allograft dysfunction after lung transplantation.**  
Martin Bon (Cenon, France), Guillaume Verdy, Claire Bon, Elodie Blanchard, Julie Macey, Hadrien Golhen, Clement Boisselier, Benjamin Repousseau, Régis Seramondi, Patrick Reynier, Eline Bonnardel, Christelle Pellerin, Jerome Ridolfo, Eloise Gallo, Pierre Khan, Hadrien Roze, Arnaud Rodriguez, Yaniss Belaroussi, Benjamin Chevalier, Frederic Delcambre, Matthieu Thumerel, Jacques Jougon, Xavier Demant
- PA4491** **Donor-derived cell-free DNA levels in combined heart-lung transplant recipients using a novel PCR-based assay.**  
Owais Tisekar (Bangalore, India), Md Moiz Lalani, Vijil Rahulan, Samuel Devi, Manjunath N, Menander M, Manish Sharma, Prabhat Dutta, Sandeep Attawar
- PA4492** **Longitudinal monitoring of LCI in spirometrically stable lung transplant recipients**  
Madeleine Driskel (Manchester, United Kingdom), John Blaikley, Karthik Santhanakrishnan, Catherine Fullwood, Rajamiyer Venkateswaran, Alex Horsley
- PA4493** **Repetitive remote ischemic conditioning (RIC) effect size (ES) on composite indices apropos to primary graft dysfunction (PGD)**  
Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black
- PA4494** **Perspectives of an uncontrolled donation after circulatory death lung transplantation program**  
Alessandro Palleschi (Milano (MI), Italy), Valeria Musso, Alberto Zanella, Letizia Corinna Morlacchi, Valeria Rossetti, Marco Sacchi, Elena Benazzi, Tullia De Feo, Giuseppe Piccolo, Mario Nosotti
- PA4495** **Machine-learning based BAL cytology of lung transplant patients**  
Michael Gerckens (München, Germany), Carlo Muemmler, Johannes Strodel, Gerald Burgstaller, Jürgen Behr, Nikolaus Kneidinger
- PA4496** **End-of-life care for lung transplant recipients: a new role for palliative medicine.**  
Letizia Corinna Morlacchi (Milano (MI), Italy), Maria Pappalettera, Valeria Rossetti, Ilaria Righi, Francesco Damarco, Mario Nosotti, Roberto Ercole Moroni Grandini, Francesco Blasi

PS-15 in poster area

Session 441

12:30 - 14:00

## Poster session: Techniques in respiratory physiology

Disease(s) : Pulmonary vascular diseases Airway diseases Interstitial lung diseases Sleep and breathing disorders

Method(s) : Pulmonary function testing Physiology Imaging Epidemiology

Tag(s) : Clinical

Chairs : Rachel Ong-Salvador (Amsterdam, Netherlands), Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

- PA4497** **Evaluating efficiency of autotitrating CPAP (continuous positive airway pressure): role of available tools**  
Gianni Prest (Imperia (IM), Italy), Chiara Cardani, Serena Garibaldi, Silvia Tamborino, Francesco Balbi, Enrico Perretta
- PA4498** **Use of a wearable sleep sensor in an OSA clinic: a service evaluation**  
Rhodri Curtis (Cardiff, United Kingdom), Joleta Hooper-Lee, Alex Perkins
- PA4499** **Development and validation of novel individualized FeNO cut-offs**  
Rita Amaral (Porto, Portugal), Tiago Jacinto, Andrei Malinovsky, Christen Janson, Bernardo Sousa-Pinto, Anna-Carin Olin, Kjell Torén, Linda Ekerljung, Hannu Kankaanranta, Jörgen Syk, João A. Fonseca, Kjell Alving
- PA4500** **Xe-MRI bronchodilator response to assess disease severity in patients with asthma and/or COPD**  
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Dave Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Oliver Rodgers, James Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardakar, Titti Fihn-Wikander, Rod Hughes, Jim Wild

- PA4501** **Effects of adopting GLI reference equations on lung volumes interpretation**  
Danny Brazzale (Macleod, Australia), Warren Ruehland, Celia Lanteri, Emma Smith
- 
- PA4502** **The FIVC should be used as an acceptable substitute for the FVC when evaluating the FVC in neuromuscular disease, experience in a clinical trial for adult myotonic dystrophy (DM)**  
Kevin McCarthy (Matthews, United States), Carrie Heusner, Phd, Jose Ramos, Dawn Patterson, Phil Lake, Marc Baumle
- 
- PA4503** **Nebuliser characterisation with saline results in inaccurate methacholine PD20 values.**  
James Dean (Holmes Chapel, United Kingdom), Dave Singh
- 
- PA4504** **Respiratory rate and chest wall motion assessment by a new 6-hour recording device**  
Manuel D'Onofrio (Rome, Italy), Emiliano Musso, Marco Ceccarelli, Vincenzo Ambrogi
- 
- PA4505** **The partial pressure of transcutaneous carbon dioxide can be monitored with a wearable**  
Alessandra Angelucci (Milano, Italy), Sara Bernasconi, Luca Colombo, Mauro Contini, Paola Gugliandolo, Piergiuseppe Agostoni, Andrea Aliverti
- 
- PA4507** **Role of lung function testing in investigation of persisting breathlessness following acute pulmonary embolus**  
Jason Burge (Wolverhampton, United Kingdom), Joanna Shakespeare, Sarah Shuker, David G. Parr
- 
- PA4508** **Lung diffusion capacity in older and young endurance elite athletes**  
Biljana Lazovic (Beograd, Republic of Serbia)
- 
- PA4509** **Diffusion Capacity: Equipment quality control**  
Irene Steenbruggen (Zwolle, Netherlands), Peter De Laat
- 
- PA4510** **Smallest detectable difference of DLCO within clinical relevance?**  
Herman Groepenhoff (Lijnden, Netherlands), Annette Fiedler, Juergen Riess, Margriet Kaldenbach
- 
- PA4511** **Exploring physiological concordance between spirometry and gas transfer in IPF.**  
Absari Choudhury (Coventry, United Kingdom), Joanna Shakespeare, David G Parr
- 
- PA4512** **Relationships between same-day FVC and FIVC from forced spirometry and IVC from DLCO; findings in an IPF clinical trial**  
Jose Ramos (North Olmsted, OH, United States), Kevin McCarthy, Phil Lake, Marc-Aurel Baumle, Dawn Patterson
- 
- PA4513** **Characterisation of physiological discordance in patients with idiopathic pulmonary fibrosis.**  
Absari Choudhury (Coventry, United Kingdom), Joanna Shakespeare, David G Parr
- 
- PA4514** **Effects of CPAP levels on ventilation in healthy subjects**  
Lu Wang (Guangzhou, China), Lu Wang, Simin Liu, Yan Chen, D. Andrew Wellman, Joerg Steier, Danny Eckert, R. Doug Mcevoy, Yuanming Luo
- 
- PA4515** **Investigation of Respiratory Physiopathology by Determination of Pulmonary Gas Exchange and Ventilation Dynamics in Chronic Lung Diseases**  
Necmiye Funda Coşkun (Bursa, Turkey), Fadıl Özyener, Aslı Görek Dilektaşlı, Dane Ediger

PS-16 in poster area

Session 442

12:30 - 14:00

Poster session: Novelties in respiratory physiotherapy for health and COVID-19

Disease(s) : [Airway diseases](#) [Respiratory critical care](#) [Interstitial lung diseases](#)

Method(s) : General respiratory patient care Pulmonary function testing Pulmonary rehabilitation Respiratory intensive care Public health Epidemiology

Tag(s) : Clinical

Chairs : Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Maria Koulopoulou (London, United Kingdom)

- PA4516** **Reliability of kinetics-on and kinetic-off oxygen uptake during six-minute step test in male**  
Cássia Goulart (São Carlos, Brazil), MURILO OLIVEIRA, Shida Marinho, Aldair Araújo, Izadora Dourado, Meliza Roscani, Renata Mendes, Audrey Borghi-Silva

- PA4517** **Incremental and constant load endurance respiratory muscle tests in healthy adults**  
Daniel Langer (Leuven, Belgium), Ana Lista Paz, Margarita Barral Fernández, Cristina Jácome, Linde Holmstock, Loena Van Baelen

PA4518	<b>Reference values for maximal respiratory pressures in Spanish population: a multicentre study</b> Elena Gimeno-Santos (Barcelona, Spain), Ana Lista Paz, Margarita Barral Fernández, Luz González Doniz, Sonia Souto-Camba, Alejandro Quintela Del Río, Daniel Langer, Ana B Varas De La Fuente, Cristina Serrano Veguillas, Ane Arbillaga-Etxarri, Jordi Vilaró, Rodrigo Torres-Castro, Pilar Bravo Cortés, Esther García Delgado, Concepción Martín Cortijo, Marina Francín-Gallego, Beatriz Herrero-Cortina, Yolanda Sanesteban Hermida, Esther Giménez Moolhuyzen, Rocío Martín-Valero, Jorge Alvarez Rivas, José Luis Valera Felices, Carolina González Montañez, Antonio Tomás Ríos-Cortés, Guilherme Fregonezi
PA4519	<b>Clinical definition of respiratory muscle weakness based on reference values for maximal respiratory pressures</b> Elena Gimeno-Santos (Barcelona, Spain), Ana Lista Paz, Daniel Langer, Margarita Barral Fernández, Luz González Doniz, Sonia Souto-Camba, Alejandro Quintela Del Río, Ane Arbillaga-Etxarri, Beatriz Herrero-Cortina, Rodrigo Torres-Castro, Jordi Vilaró, Pilar Bravo Cortés, Ana B Varas De La Fuente, Cristina Serrano Veguillas, Concepción Martín Cortijo, Esther García Delgado, Carolina González Montañez, Yolanda Sanesteban Hermida, Esther Giménez Moolhuyzen, José Luis Valera Felices, Rocío Martín-Valero, Marina Francín-Gallego, Jorge Álvarez Rivas, Antonio Tomás Ríos-Cortés, Guilherme Fregonezi
PA4520	<b>Virtual Reality Rehabilitation for Improving Exercise Performance and Mental Well-being in Post-Acute Sequelae of COVID-19 Patients</b> Sebastian Rutkowski (Opole, Poland), Vera Colombo, Marta Mondellini, Marco Sacco, Katarzyna Bogacz, Anna Rutkowska, Jan Szczegielniak, Richard Casaburi
PA4521	<b>Predictors of weaning failure from mechanical pulmonary ventilation in patients affected by COVID-19</b> Natalia Trindade da Silva (Londrina, Brazil), Larissa A Castro, Walter Sepúlveda-Loyola, Josiane M Felcar, Carrie C R Galvan, Vanessa S. Probst
PA4522	<b>Effectiveness of Post-COVID rehabilitation and impact of frailty in Post-COVID Syndrome</b> Kola Akinlabi (London, United Kingdom), Binny Patel, Ana-Maria Barfa, Patrick Mallia, Radoslav Trojak, Amalachukwu Ukaere, Gavin Sandercock
PA4523	<b>International Physical Activity Questionnaire for people post COVID-19: a validation study</b> Nicola Sante Diciolla (Madrid, Spain), Alda Marques, Ana Jiménez-Martín, Sara García-De Villa, F. Javier Redondo-García, Maris Torres-Lacomba, María José Yuste-Sánchez
PA4524	<b>Micro-choice based concentrated rehabilitation for patients with post COVID-19 condition, a 3-month follow-up study.</b> Bente Frisk (Sandvli, Norway), Marte Jurgensen, Birgitte Espehaug, Kiri Lovise Njøten, Eirik Søfteland, Bernt Bøgvold Aarli, Gerd Kvale
PA4525	<b>Association of dyspnea and physical activity level in adult patients with CF during COVID-19</b> Aydan Asli Aksel Uylar (Ankara, Turkey), Naciye Vardar-Yagli, Merve Firat, Melda Saglam, Ebru Calik-Kutukcu, Ebru Damadoglu
PA4526	<b>Factors affecting participation of long COVID-19 patients in pulmonary rehabilitation programmes</b> Christiana Lekka (Athens, Greece), Nikolaos Chynkiamis, Angelos Vontetsianos, Christina Anagnostopoulou, Stavrina Zaneli, Zoi Sotiropoulou, Georgios Kaltsakas, Andriana Papaioannou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris
PA4527	<b>Respiratory, mental and physical aspects in people following COVID-19 infection: a six-month follow-up</b> Karina Marcela Morro Pozo (Presidente Prudente, Brazil), Isis Grigoletto, Paloma Borges, Matheus Pedroso, Elaine Maldonado Bertacco, Thamirys Serafim, Vinicius Cavalheri, Rafael Mesquita, Ercy Mara Cipulo Ramos
PA4528	<b>Effectiveness of physical activity counseling in patients with COVID-19</b> Zeliha Celik (Ankara, Turkey), Nihan Kafa, Nevin A. Guzel, Nurdan Kokturk
PA4529	<b>Functional recovery over 1 year after hospitalization for COVID-19: results from waves 1 and 2 of the pandemic</b> Marla Beauchamp (Hamilton, Canada), Renata Kirkwood, Andrew Costa, Mylinh Duong, Terence Ho, Rebecca Krusselbrink, Aaron Jones, Parminder Raina
PA4530	<b>Is the endothelial dysfunction in patients with exacerbation of COPD and COVID-19 comparable?</b> Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Naiara Tais Leonardi, Alessandro Domingos Heubel, Erika Zavaglia Kabbach, Nathany Souza Schaufuser, Débora Mayumi Kawakami, Stephanie Nogueira Linares, Ariane Viana, Vanessa Teixeira Do Amaral, Gustavo Yudi Orikassa De Oliveira, Audrey Borghi-Silva, Emmanuel Gomes Ciolac
PA4531	<b>Relationship between cognitive impairment and upper limb motor skills in Long-COVID patients</b> Laura Lopez Lopez (Granada, Spain), Miguel Hernández Serrano, Alba Navas Otero, Javier Martín Núñez, Araceli Ortiz Rubio, Irene Torres Sánchez, Marie Carmen Valenza
PA4532	<b>Evaluation of the learning effect on the six-minute walking distance in patients with long COVID.</b> Tess Volckaerts (Edegem, Belgium), Kirsten Quadflieg, Chris Burtin, Kevin De Soomer, Ellie Oostveen, Ella Roelant, Iris Verhaegen, Michiel Thomeer, Maarten Criel, David Ruttens, Thérèse S. Lapperre, Dirk Vissers

**PA4533 Cardiac Hemodynamics and Functional Capacity After Covid-19: Case Series**  
Larissa Nascimento (Natal, Brazil), Emilyy Bandeira, Guilherme Fregonezi, Vanessa Resqueti

**PA4534 The effect of COVID-19 on exercise capacity in young people**  
Dilek Çağrı Arslan (ATAŞEHİR, Turkey), Meryem Bektaş Karakuş, Semiramis Özyılmaz

**PA4535 Factors Associated with Exercise Capacity and Functional Balance in Post-COVID-19 Syndrome**  
Ebru Calik Kutukcu (Ankara, Turkey), Melike Sura Oksuz Capanoglu, Oguz Abdullah Uyaroglu, Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Lale Ozisik, Nursel Calik Basaran, Gulay Sain Guven

**PS-17 in poster area Session 443 12:30 - 14:00**

**Poster session: What is new in treatment of drug-susceptible tuberculosis, drug-resistant tuberculosis and tuberculosis infection?**

**Disease(s) :** [Airway diseases](#)

**Method(s) :** Public health General respiratory patient care Cell and molecular biology Epidemiology Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** Liga Kuksa (Dobele, Latvia), Jan Heyckendorf (Hamburg, Germany)

**PA4536 Effect of tuberculosis preventive treatment on household contacts of rifampin-resistant tuberculosis patients: A nationwide investigation**  
Kang-Mo Gu (Seoul, Republic of Korea), Sun-Young Jung, Jae-Eun Lee, Joo-Hyeon Eom, Kyungeun Lee, Yong-Joon Park, Yunhyung Kwon, Youmi Kim, Jae Chol Choi

**PA4537 The use of weekly rifapentine and isoniazid (3HP) for latent TB infection in Australia.**  
Vicky Chang (Sydney (NSW), Australia), Greg Fox

**PA4538 Relationship between PTLD and multidrug resistance to Tuberculosis**  
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni Garcia Castro, Luisa Fernanda Sierra Garzon, Laura Sofia Garcia Giraldo

**PA4539 Efficacy and safety of 6-month and 4-month anti-tuberculosis regimens: A review of literature and meta-analysis**  
Stephanie Palacios (Iloilo, Philippines), Glenford Refre, Patricio Palmes, Ma. Cecilia Momville

**PA4540 Carbapenems and amoxicillin together with B-lactamase inhibitors for the treatment of Tuberculosis, a systematic review.**  
Carlijn Veldman (Zwolle, Netherlands), Simon Tiberi, Huib Kerstjens, Onno Akkerman

**PA4541 Characterization of tuberculosis drug resistance patterns in the early days of XDR-TB**  
André Filipe Santos Nunes (Ponta Delgada, Portugal), Sofia Fontão Alves, Luís Mateus, Maria Cavaco, Ricardo Cordeiro, Carina Rolo Silvestre, Joana Ferra, Daniel Duarte, Carla Cardoso, Aurora Bragança, Paula Raimundo, Natália André, António Domingos, Teresa Falcão

**PA4542 Side effects of 2nd line anti-tuberculous drugs: impact on compliance and therapeutic efficacy**  
Soumaya Ben Saad (Ariana, Tunisia), Issraa EL WHADHANE, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritar

**PA4543 Molecular Characterization of Drug Resistant pattern of Mycobacterium tuberculosis**  
Sushma Yadav (Gwalior, India), Surya Kant, Amita Jain, Jyoti Bajpai

**PA4544 Adjunctive Corticosteroid Therapy for severe tuberculosis: Risk factors for poor outcomes?**  
Amani Ben Mansour (Tunisia, Tunisia), Jallouli Nour Lahbib, Slim Azza, Ben Saad Soumaya, Daghfous Hafaoua, Tritar Fatma

**PA4545 Study of Moxifloxacin and Silver Nanoparticle Composite Efficacy on pre-XDR Mycobacterium Tuberculosis Strains**  
Teona Avaliani (Tbilisi, Georgia), Nino Kiria, Giorgi Phichkhaia, Nino Bablishvili, Nana Kiria

**PA4546 Linezolid-induced peripheral neuropathy in patients receiving MDR-TB treatment**  
Erik Skyllberg (London, United Kingdom), Rebekah Young, Akhilesh Sharma, Christabelle Chen, Simon Tiberi, Veronica White, Heinke Kunst

**PA4547 Outcome of Multi drug resistant(MDR)TB patients on Shorter MDR TB Regimen**  
Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Darshan Kumar Bajaj, Sandeep Kumar, R A S Kushwaha, Surya Kant, Ajay Kumar Verma, Richa Tyagi, Rajiv Garg, Anand Srivastava, Santosh Kumar, Ankit Kumar, Naveen Kumar, Nandini Dixit

**PA4548 Isoniazid resistant tuberculosis(Hr-TB): a problem well stated is a problem half solved!**  
KETAN MALU (AURANGABAD, India), Avinash Lamb

**PA4549 A 15 year Retrospective Analysis of the Impact of Hearing Loss following IV Aminoglycoside use for Multi-Drug Resistant Tuberculosis**  
Ciara Ottewill (Dublin 4, Ireland), Tobias Maharaj, Maria Kane, Lorraine Dolan, Joseph Keane, Anne Marie Mclaughlin

**PA4550 TREATMENT OUTCOMES OF EXTENSIVELY DRUG-RESISTANT TUBERCULOSIS (XDR-TB) IN MONGOLIA: RETROSPECTIVE STUDY**  
Bolskhan Baigabyl (Ulnaanbaatar, Mongolia), Bolor Rash, Oyunchimeg Adilaa, Yanjindulam Purevsuren, Dorjderem Radnaa

**PA4551 Seventeen drugs, one sample: analyzing multiple anti-TB drugs simultaneously using one method**  
Mathieu S. Bolhuis (Groningen, Netherlands), Erwin M. Jongedijk, Onno W. Akkerman, Daan J. Touw, Marieke G.G. Sturkenboom

**PA4552 Release of potassium ions from leukocytes in patients with tuberculosis with toxic-allergic reactions to medicines**  
Galyna Gumeniuk (Kyiv, Ukraine), Yuliia Matviienko, Olena Rekalova, Viktoriia Zhadan, Oksana Panasniukova, Svitlana Yasir, Andriy Taranenko, Maryna Budyonna, Galina Gumeniuk

**PA4553 Features of the treatment outcome of patients with multidrug-resistant tuberculosis and Beijing lineage 2 of Mycobacterium tuberculosis in Kharkiv region, Ukraine**  
Dmytro Butov (Kharkiv, Ukraine), Tetiana Butova, Natalia Rudova, Nadiya Sapelnik, Olena Borysova, Oleksii Solodianskin

**PA4554 Dexamethasone Reduces Metabolic Function and Subsequent Activation of Human Macrophages to Mycobacterium Tuberculosis.**  
Lorraine Thong (Co. Cork, Ireland), Donal Cox, Joseph Keane

PS-18 in poster area

Session 444

12:30 - 14:00

## Poster session: COVID-19 outcomes

Disease(s) : [Airway diseases](#) [Respiratory critical care](#) [Sleep and breathing disorders](#)Method(s) : [Epidemiology](#) [General respiratory patient care](#) [Public health](#) [Pulmonary function testing](#) [Respiratory intensive care](#) [Imaging](#) [Pulmonary rehabilitation](#) [Physiology](#)Tag(s) : [Clinical](#)

Chairs : Arietta Spinou (London, United Kingdom), Tony De Soyza (Newcastle-upon-Tyne, United Kingdom)

**PA4555 Does pre-existing respiratory disease affect 3-month outcome following severe COVID: a matched prospective cohort across 4 waves**  
Olivia Vandekerckhove (Sint-Pieters-Rode, Belgium), Eveline Claeys, Nele Steyaert, Walter De Wever, Wim Janssens, Lieven Dupont, Pascal Van Bleyenbergh, Greet Hermans, Natalie Lorent

**PA4556 Risk factors for secondary organizing pneumonia in patients with COVID-19 pneumonia**  
Alisa Aikwanich (Pathum-Thani, Thailand), Dararat Eksombatchai, Tananchai Petnak, Tanapat Tassaneyasin, Viboon Boonsangasuk

**PA4557 Long-term outcomes of COVID-19 patients admitted to a tertiary care hospital in Peshawar, Pakistan.**  
Muhammad Imran (Peshawar, Pakistan), Azhar Uddin, Zafar Iqbal, Yousal Ali, Abdul Jalil Khan

**PA4558 12-Month follow-up study of patients after hospitalization for COVID-19**  
Ivan Rosas (Houston, United States), James A. Mckinnell, Reena Shah, Michael Waters, Bradley Hunter, Robert Jeanfreau, Alejandra Benitez, Larry Tsai, Margaret Neighbors, Ben Trzaskoma, Rita De Cassia Castro, Fang Cai

**PA4559 Applying machine learning algorithms to predict outcomes in hospitalized COVID-19 patients**  
Ahmed Dhia El Euch (Sfax, Tunisia), Soumaya Triki, Nour Kallel, Rahma Gargouri, Nesrin Kallel, Walid Feki, Imed Gargouri, Samy Kammoun

**PA4560 A close respiratory follow-up after acute COVID-19 – is it necessary?**  
Amir Bar-Shai (Tel-Aviv, Israel), Ophir Freund, Anna Breslavsky, Rotem Givoli-Vilensky, Evgeni Gershman, Avraham Unterman, Nadav Zacks, Ori Wand, Natalya Bilenko

**PA4561 Persistent symptoms, lung function and imaging abnormalities at 1-year follow-up for severe COVID-19**  
Arturo Cortes-Telles (Merida (Yucatan), Mexico), Luis Alberto Solís-Díaz, Heideger Norberto Mateos-Toledo, Esperanza Figueroa-Hurtado, Diana Lizbeth Ortiz Fariás, Yuri Noemí Pou-Aguilar, Saúl Vázquez-López

**PA4562 Association between pre-hospital inhaled corticosteroid use and COVID-19 outcomes**  
Marija Vukoja (Sremska Kamenica, Republic of Serbia), Aysun Tekin, Nereida Parada, Javaughn Gray, Alan Mallouhi, Tiana Roddy, Amos Lal, Yuanhao Zu, Joshua Denson

**PA4563 Pulmonary lung function and blood gas analysis in patients after severe Covid-19 pneumonia**  
Plamena Stoimenova (Plovdiv, Bulgaria), Stoilka Mandadzhieva, Blagoi Marinov

PA4564	<b>Secondary infectious complications of the airways in patients with post-COVID-19 syndrome</b> Galyna Gumeniuk (Kyiv, Ukraine), Yuri Feshchenko, Mykola Gumeniuk, Viktoria Ignatieva, Maryna Polianska, Svitlana Opimakh, Mykola Lynnyk, Svitlana Moskalenko, Nataliia Vlasova, Dmytro Butov
PA4565	<b>Tabacco smoking and post COVID-19 syndrome</b> Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hajer Racil, Mariem Chaabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch
PA4566	<b>Co-infection and secondary infection in critically ill Omicron variant COVID-19 patients in a university hospital</b> Yi-Ting Chen
PA4567	<b>Functional and radiological correlation of ICU survivors with severe COVID-19 at 1 year follow up from the OUTSTRIP COVID-19 prospective cohort study</b> Aisha Aladab (doha, Qatar), Mousa Hussein, Merlin Thomas, Mansoor Hameed, Jaweria Akram, Rajalekshmi Nair, Rajendra Kumar, Amal Rashid, Saibu George, Mushtaq Ahmad, Maysa Abdelhafeez, Aalaa Kambal, Tasleem Raza
PA4568	<b>3-month clinical, functional and radiological outcomes of hospitalised COVID-19 patients in the first versus the second wave</b> Elise Peys (Antwerpen, Belgium), Yannick Vande Weygaerde, Cedric Bosteels, Bihiyga Salhi, Sven Verschraegen, Pieter Depuydt, Sandra Oeyen, Eric Derom, Heleen Demeyer, Eva Van Braeckel
PA4569	<b>Habits and predictors of poor sleep quality in post-Covid 19</b> Houda Rouis (Ariana, Tunisia), Nouha Guediri, Rania Kaddousii, Hadhemi Rejeb, Hela Kammoun, Iteb Ben Limem, Imen Ben Salah, Hanene Smadhi, Dorra Greb, Ines Akrouf, Hela Hassen, Hager Benabdelghaffar, Leila El Fekhih, Mohamed Lamine Megdiche
PA4570	<b>Forty step desaturation test does not have prognostic value in COVID-19 due to omicron variant</b> Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Devasahayam J Christopher, Barney Isaac, Rajasekar Sekar, Rathijit Pal, Hema Paul, Mathew Varghese, Abhilash Paul Prabhakar
PA4571	<b>Identification of long COVID phenotypes based on clinical presentation at 3 to 6 months post SARS-CoV-2 infection: results from the P4O2 consortium</b> Jelle M. Blankestijn (Amsterdam, Netherlands), Mahmoud I. Abdel-Aziz, Nadia Baalbaki, Somayeh Bazdar, Inés Beekers, Rosanne J.H.C.G. Beijers, Lizan D. Bloemsma, Merel E.B. Cornelissen, Debbie Gach, Laura Houweling, Sebastiaan Holverda, John J. Jacobs, Renée Jonker, Ivo Van Der Lee, Paulien M.A. Linders, Firdaus A.A.M. Hoesein, Lieke C.E. Noij, Marianne A. Van De Pol, Daphne W. Schaminee, Annemie M.W.J. Schols, Lisanne T. Schuurman, Brigitte Sondermeijer, J.J. Miranda Geelhoed, Joop P. Van Den Bergh, Els J.M. Weersink, Esther J. Nossent, Yolanda De Wit-Van Wijck, Anke H. Maitland-Van Der Zee
PA4572	<b>Long covid symptoms in hospitalized and non-hospitalized patients</b> CHRISTOFOROS PROIMOS (Thessaloniki, Greece), GEORGIA CHASAPIDOU, Eleni Eleftheriadou, Maria Konstadinidou, Dionisia Samara, Dimitra Daiou, Maria-Christina Gramenou, Effimia Kamariotou, Panagiotis Georganakis, Eleana Giovani, Valentina Peglidou, Petros Ekoutsidis, Lefteris Doulgerakis, Diamantis Chloros
PA4573	<b>Prospective evaluation of post-covid patients being hospitalized in a Greek clinic</b> Konstantinos Eleftheriou (Athens, Greece), Vasilis Vlahakos, Athanasia Papalampidou, Theofani Rimpa, Apostolis Pappas, Zafiria Barmparessou, Eftichia Polidora, Rafaela Siampani, Ioannis Kaolomenidis
PA4574	<b>Fatigue in post COVID-19 patients: the P4O2 COVID-19 study</b> Merel E.B. Cornelissen (Nijmegen, Netherlands), Lizan D. Bloemsma, Nadia Baalbaki, Somayeh Bazdar, Jelle M. Blankestijn, Inés Beekers, Rosanne J.H.C.G. Beijers, Joop P. Van Den Bergh, Debbie Gach, J.J. Miranda Geelhoed, Sebastiaan Holverda, Laura Houweling, John J. Jacobs, Renée Jonker, Ivo Van Der Lee, Paulien M.A. Linders, Lieke C.E. Noij, Esther J. Nossent, Marianne A. Van De Pol, Daphne W. Schaminee, Annemie M.W.J. Schols, Lisanne T. Schuurman, Brigitte Sondermeijer, Anouk W. Vaes, Els J.M. Weersink, Yolanda De Wit-Van Wijck, Martijn A. Spruit, Anke H. Maitland-Van Der Zee

PS-19 in poster area

Session 445

12:30 - 14:00

Poster session: COVID-19 vaccines and immunity

Disease(s) : [Airway diseases](#) [Respiratory critical care](#)

Method(s) : General respiratory patient care Imaging Epidemiology Public health Cell and molecular biology

Tag(s) : Translational

Chairs : Pierre-Régis Burgel (Paris, France), Adrian Ceccato (Barcelona, Spain)

PA4575	<b>Association between mRNA vaccination and COVID-19 hospitalization and disease severity</b> Adamadia Liapikou (Athens, Greece), Alexandra Kote, Aggeliki Sotiropoulou, Panagiotis Peristeris, Ioanna Augerinou, Ioannis Dimitroulis, Stella Kourelea
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- PA4576** **Impact of IFN- $\gamma$  and IL-2 measurement in the assessment of the cellular immunity against SARS-CoV-2**  
Guillem Safont-Gonzalez (Breda, Spain), Raquel Villar-Hernández, Daria Smalchuk, Zoran Stojanovic, Alicia Marín, Alicia Lacoma, Cristina Pérez-Cano, Anabel López-Martínez, Bárbara Molina-Moya, Alan Jhuniór-Solis, Fernando Arméstar, Joan Matlló, Sergio Díaz-Fernández, Iris Romero, Irma Casas, Kevin Strecker, Rosemarie Preyer, Antoni Rosell, Irene Latorre, Jose Domínguez
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- PA4577** **Effect of vaccination status in outcomes of mexican patients hospitalized with severe COVID-19 during the omicron wave: a single-center experience**  
Arturo Cortes-Telles (Merida (Yucatan), Mexico), Victor Aaron Álvarez-Sánchez, M. Alejandra Salcedo-Parra, Gustavo Bonnabel-Becerra
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- PA4578** **Comparative Analysis of COVID-19 Vaccination Coverage in the Hungarian Population and COPD Patients.**  
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Alpar Horvath, Balazs Santa, Gabor Tomisa, Gergo Szollosi, Zoltan Ungvari
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- PA4579** **Seroprevalence of SARS-CoV-2 specific IgG antibodies in rural population of Western Maharashtra, India**  
Dhiraj Agarwal (Pune (Maharashtra), India), Rutuja Patil, Sudipto Roy, Harshpreet Kaur, Sanjay Mehandale, Ashish Bavdekar, Harish Nair, Sanjay Juvekar, Girish Dayma
- 
- PA4580** **SARS-CoV-2 viral persistence and clinical relapse in immunocompromised patients**  
Francesca Simioli (Napoli (NA), Italy), Anna Annunziata, Antonietta Coppola, Angela Irene Mirizzi, Antonella Marotta, Pasquale Imitazione, Giuseppe Fiorentino
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- PA4581** **Immunosuppressed COVID-19 patients: experience from a tertiary Chest hospital in Athens, Greece**  
Iris-Theodora Vlachantoni (Athens, Greece), Anastasia Levounets, Romina Chatzipetrou, Andrea Kyriacou, Eirini Skontzou, Lamprini Vlassi, Chrysa Kontogianni, Konstantinos Samitas, Zafeiris Sardelis, Evangelos Markozannes, Theoplasti Grigoratou, Eleftherios Zervas, Lykourgos Kolilekas
- 
- PA4582** **Investigation of antibody levels during three doses of Sinopharm/BBIBP vaccine inoculation**  
Baoqing Sun (Guangzhou (Guangdong), China)
- 
- PA4583** **Sequelae after severe Covid-19 infection at 6 months of follow-up according to previous vaccination status.**  
Laura Alcarraz Vázquez (Zaragoza (Zaragoza), Spain), Iván D. Benítez, María Aguilà, Sally Santistevé, Aida Monge, Clara Gort-Paniello, David De Gonzalo-Calvo, Ferran Barbé, Jessica González
- 
- PA4584** **PROphylaxis for vulnerable paTiEnts at risk of COVID-19 infecTion (PROTECT-V) – Sotrovimab arm**  
Louise Crowley (Birmingham (England), United Kingdom), Michael Chen-Xu, Francis Dowling, Wendi Qian, Raksha Adhikari, Diane Griffiths, Emma Bruce, Jennifer Han, Rona Smith, Davinder Dosanjh
- 
- PA4585** **Influence of vaccination status on the course of hospitalization in elderly COVID-19 patients: Single center experience of a tertiary COVID-19-hospital.**  
Markus Hofer (Zürich, Switzerland), Wyss Seraina, Reutemann Luzia, Bansal Vineeta
- 
- PA4586** **Nodal analysis determined nasal mucosal-associated mediators were associated with accelerated clinical recovery from SARS-CoV-2 infection**  
Steven Cass (London, United Kingdom), Jonathan Baker, Christine Mwasuku, Sanjay Ramakrishnan, Mahdi Mahdi, Peter Barnes, Louise Donnelly, Richard Russell, Dan Nicolau Jr., Rocio Martinez-Nunez, Mona Bafadhel
- 
- PA4587** **Comparison Of serum Anti-Spike (S) IgG Covid-19 Antibody between Breakthrough Infection And recent COVID-19 Infections in unvaccinated**  
Sajal De (Raipur, India), Dibakar Sahu, Diksha Mahilang, Anudita Bhargava
- 
- PA4588** **Differences in immunological profiles between vaccinated and recovered COVID-19 patients.**  
Shira Cohen Rubin (Beer Sheva, Israel), Natalya Bilenko, Ophir Freund, Anna Breslavsky, Tal Moshe Perluk, Rotem Givoli-Vilensky, Ori Wand, Nadav Zacks, Amir Bar-Shai
- 
- PA4589** **Variable outcomes from infection by different SARS-CoV-2 variants among vaccinated maintenance hemodialysis patients**  
Ori Wand (Kfar Sava, Israel), Idan Drori, Yael Einbinder, Naomi Nacasch, Sydney Benchetrit, Anna Breslavsky, Keren Cohen-Hagai
- 
- PA4590** **Successful Use of Monoclonal and Antiviral Therapy in Immunocompromised Patients With Persistent and/or Relapsing COVID-19**  
Leonardo Gori (Florence, Italy), Michele Spinicci, Lucia Graziani, Paola Parronchi, Alessandro Bartoloni, Diletta Cozzi, Edoardo Cavigli, Gianmaria Rossolini, Elisabetta Rosi, Federico Lavorini, Valentina Luzzi, Leonardo Giuntoli, Camilla Comin, Luca Ciani, Sara Tomassetti
- 
- PA4591** **The role of immunosuppressive therapy in post-COVID-19 interstitial lung disease**  
Erdoğan Çetinkaya (Istanbul, Turkey), Sule Gül, Barış Demirkol, Ramazan Eren, Kursad Nuri Baydili, Burcu Babaoğlu Elkhathroushi, Şerife Nur Uluşan, Umüt İlhan, Mustafa Çörtük

**PA4592 Severe COVID19 pneumonia management in patients receiving Rituximab in a pragmatic clinical setting.**  
Elli Keramida (Athens, Greece), Maria Salomidou, Fotis Kyriakou, Antonia Zachariou, Thodoris Daskalos, Irma Bracka, Eleni Bellou, Kostas Papatheodosiou, Ioannis Karampinis, Panagiotis Demertzis, Despoina Zorpidou, Georgia Hardavella

**PA4593 Inhaled therapies in the treatment of respiratory symptoms and prevention of health resources use in patients with COVID-19.**  
Suzana Erico Tanni (Botucatu (SP), Brazil), Robson Prudente, Estefânia Franco, Fernando Wehrmeister, Carlos Breda Neto, Luana Pagan, Mariana Gatto, Leticia Vieira, Liana Coelho, Diane Batista, Luiz Machado, Gustavo Mota, Marina Gaiato, Felipe Santaella, Elisangela Campos, Lize Hosoune, Marina Okoshi

**PA4594 Real-world study on effectiveness of molnupiravir and nirmatrelvir-ritonavir in unvaccinated patients with chronic respiratory diseases with confirmed SARS-CoV-2 infection managed in out-patient setting**  
Wang Chun Kwok (Hong Kong, Hong Kong), Man Fung Tsoi, Sze Him Isaac Leung, Ching Ki Tsui, Terence Chi Chun Tam, James Chung Man Ho, David Chi Leung Lam, Mary Sau Man Ip, Pak Leung Ho

PS-2 in poster area

Session 446

12:30 - 14:00

Poster session: Asthma diagnosis and management in primary care

Disease(s) : [Airway diseases](#)

Method(s) : Public health General respiratory patient care Epidemiology Cell and molecular biology Pulmonary function testing

Tag(s) : Clinical

Chairs : María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain), Miguel Román Rodríguez (Palma De Mallorca, Spain)

**PA4595 Prevalence of asthma and allergies among children in the United Arab Emirates: A crosssectional study**  
Naseem Abdalla (Dubai, United Arab Emirates), Fatima Al Meleh, Fatime Al Marzouqi, Fatima Al Jassim, Hisham Farouk, Mohamed Alsayed

**PA4596 Clinical factors associated with asthma-related mortality in Alberta, Canada**  
Subhabrata Moitra (Edmonton, Canada), Andrew Fong, Alim Hirji, Mohit Bhutani

**PA4597 Preventing Summer Holiday Drop in Prescription Uptake for School-Age Children with Asthma: A Pragmatic Cluster Randomized Controlled Trial of a Letter to GP Practices (TRAINS)**  
Rami Alyami (Sheffield, United Kingdom), Phillip Oliver, Rebecca Simpson, Steven Julious

**PA4598 Outcomes-driven Asthma data application, Emirates Health Services (EHS)- United Arab Emirates**  
Naseem Abdalla (Dubai, United Arab Emirates)

**PA4599 Asynchronous digital health interventions (aDHI) for reviewing asthma: a mixed-methods systematic review**  
Nazim Uzzaman (The University of Edinburgh, United Kingdom), Vicky Hammersley, Kirstie Mcclatchey, Jessica Sheringham, Monsur Habib, Hilary Pinnock

**PA4600 Post-hospitalisation asthma management in primary care: a retrospective cohort study**  
Shamil Haroon (Birmingham (West Midlands), United Kingdom), Dhanusha Punyadasa, Nikita Simms-Williams, Nicola Adderley, Rasiah Thayakaran, Adel Mansur, Krishnarajah Nirantharakumar, Prasad Nagakumar

**PA4601 A pulmonary transition clinic: the first Italian experience from Sacco University Hospital**  
Francesca Mandurino Mirizzi (LECCE, Italy), Lisa Milani, Marina Saad, Giuseppe Fuccia, Luca Perotto, Fiammetta Danzo, Andrea Farolfi, Gian Vincenzo Zuccotti, Pierachille Santus, Dejan Radovanovic

**PA4602 Addition of LAMA to current or former smoking asthmatics**  
Marios Ioannou (ATHENS, Greece), Stavros Patrinos, Niki Gianniou, Andreas Asimakos, Efrosini Dima, Ioanna Sigala, Paraskevi Katsaounou

**PA4603 Efficiency assessment of 15 nebuliser systems by the respirable drug delivery rate**  
Ralf Fischer (Starnberg, Germany), Filip Jukic, Rosina Ledermüller

**PA4604 Usability and acceptance of a novel compact spacer in patients with asthma and/or COPD**  
Amber Eikholt (Zwolle, Netherlands), Titia Klemmeier, Luc Steenhuis, Job Van Boven

**PA4605 Oral corticosteroid (OCS) burden and healthcare resource utilization (HCRU) in patients with chronic rhinosinusitis with nasal polyps (CRSwNP) who did or did not undergo functional endoscopic sinonasal surgery (FESS) in US real-world practice**  
Juby Anne Jacob-Nara (Hillsborough, United States), Asif H. Khan, Danielle Isaman, Stella Lee, Anju Peters, Peter Hwang, Sietze Reitsma, Natalia Petruski-Ivleva, Scott Nash, Juby Jacob-Nara

**PA4606 Validity and reliability evidence of the fear of COVID-19 scale in Greek patients with asthma**  
Mirada Karameri (Athens, Greece), Irini Patsaki, Maria Moutzouri, Georgios Koumantakis, Dimitris Tsimouris, Aikaterini Haniotou, Eirini Grammatopoulou



- PA4607** **Late Breaking Abstract - Consensus quality standard for implementing inhaler regimen switch in patients with respiratory disease**  
Tonya Winders (Hendersonville, United States), Omar Usmani, Nicolas Roche, Job Van Boven, Jane Scullion, José Miguel Padhila, Andreja Šajnić, John Bell, Anna Lawson, Alison Evans, Adam Ben Taieb, Heather Wellam, Janwillem Kocks
- PA4608** **Late Breaking Abstract - Mexican Primary Care Physician's Knowledge about Asthma and COPD: Results of an exploratory survey**  
Rosaura Esperanza Benítez Pérez (México, Mexico), Angélica Margarita Portillo-Vasquez, Robert Camargo-Ángeles, Diana Ruiz-Ascencio, Adela Reyes-Herrera, Fatima Leticia Luna-Lopez, Ruy Lopez-Ridaura, Laura Graciela Gochicoa-Rangel
- PA4609** **Late Breaking Abstract - 20-Year Secondary Care and Cost Burdens of Asthma and COPD in Singapore**  
Wenjia Chen (Vancouver, Canada), Laura Huey Mien Lim, Yah Ru Juang
- PA4610** **Late Breaking Abstract - Reducing Short Acting Beta Agonist (SABA) prescribing in Antrim/Ballymena GP Federation through SENTINEL Plus**  
Michael Crooks (East Riding of Yorkshire, United Kingdom), Joanne Caldwell, Aislinn Mccarry

PS-20 in poster area

Session 447

12:30 - 14:00

Poster session: Interventional bronchoscopy: exciting times and developments ahead

Disease(s) : Thoracic oncology Airway diseases Interstitial lung diseases Respiratory critical care

Method(s) : Endoscopy and interventional pulmonology Imaging Cell and molecular biology

Tag(s) : Clinical

Chairs : Mohammed Munavvar (Preston (Lancashire), United Kingdom), Sara Tomassetti (Florence, Italy)

- PA4611** **Impact of endobronchial valve treatment on lung function decline**  
Jorine E. Hartman (Groningen, Netherlands), Karin Klooster, T. David Koster, Orestes A. Carpaij, Marlies Van Dijk, Dirk-Jan Slebos
- PA4612** **Bronchoscopic lung volume reduction with endobronchial valves improves respiratory muscles function in patients with severe emphysema**  
Aurélien Brindel (Thionville, France), Romane Fumat, Marion Dupuis, Romain Barthes, Florent Favard, Yannick Simonneau, Matthieu Dusselier, Valentin Héluain, Gavin Plat, Thomas Egenod, Nicolas Guibert
- PA4613** **Metered Cryospray improves patient-reported outcome measures at 6-months post-crossover treatment, in patients with COPD with chronic bronchitis**  
Christopher M Orton (London, United Kingdom), James Tonkin, Ley Chan, Anand Tana, Francesca Conway, Bavithra Vijayakumar, Laura Avanzi, Jorine Hartman, Karin Klooster, John Thornton, Jan Lukas Robertus, Dirk-Jan Slebos, Pankaj Bhavsar, Pallav L Shah
- PA4614** **The impact of emphysema heterogeneity on treatment response after endobronchial valve treatment**  
Sharyn A. Roodenburg (Groningen, Netherlands), Karin Klooster, Dirk-Jan Slebos, Jorine E. Hartman
- PA4615** **Insights in biofilm infections on endobronchial valves in COPD patients after endoscopic lung volume reduction**  
Eva Pappé (Berlin, Germany), Ralf-Harto Hübner, Laura Kursawe, Kurosh Sarbandi, Jacopo Saccomanno, Martin Witzernath, Alexandra Wiessner, Annette Moter, Judith Kikhney
- PA4616** **Endobronchial valve (EBV) insertion for emphysema quickly improves sarcopenia**  
Julia Rubenstein (Talence, France), Ilyes Benlala, Anne-Claire Toublanc, Marina Guecamburu, Claire Bon, Charlotte Vergnenegre, Arnaud Maurac, Leo Grassion, Pauline Henrot, Maeva Zysman
- PA4617** **Bronchoscopic lung volume reduction with a next generation coil.**  
Kathleen Jahn (Basel, Switzerland), Christoph Steven, Daiana Stolz, Michael Tamm
- PA4618** **Combination of endobronchial and intrabronchial valves for endoscopic therapy of advanced emphysema**  
Susanne Dittrich (Heidelberg, Germany), Ann- Sophie Unterschemmann, Franziska Trudzinski, Judith Brock, Daniela Gompelmann, Felix Jf Herth, Ralf Eberhard, Konstantina Kontogianni
- PA4619** **Endobronchial valve implantation for major hemoptysis.**  
Kathleen Jahn (Basel, Switzerland), Daiana Stolz, Michael Tamm
- PA4620** **Lobar deflation predicts FEV1 following valve therapy in patients with severe emphysema**  
Daniela Gompelmann (Vienna, Austria), Stefanie Schuler, Konstantina Kontogianni, Matthias Rötting, Ines Richter, Markus Polke, Nilab Polke, Ralf Eberhardt, Claus Peter Heussel, Felix Herth
- PA4621** **PERSISTENT AIRLEAK TREATED WITH ENDOBRONCHIAL VALVES, A TERCARY HOSPITAL EXPERIENCE.**  
Cristina Sánchez Fernández (Oropesa, Spain), Katuska Herminia Liendo Martínez, Christian Reynaldo Castro Riera, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu

- PA4622** **ROLE OF CRYOBIOPSY IN THE INTERSTITIAL LUNG DISEASE DIAGNOSTIC ALGORITHM**  
Alejandro Golfe Bonmatí (Valencia, Spain), Marina Alcaraz Barcelona, Wanda Almonte Batista, Javier Cruz Ruíz, Concepción Patricia López Miguel, Jesús Jiménez López, Raúl Godoy Mayoral, Álvaro Hurtado Fuentes, Rafaela Sánchez-Simón Talero, Ana Núñez Ares
- PA4623** **The influence of the interventionalist's gender on the outcome and complications of transbronchial lung cryobiopsy**  
Franziska Trudzinski (Heidelberg, Germany), Christos Athanasiou, Judith Brock, Ralf Eberhardt, Julia D. Michels, Julia Carmen Schäfer, Mavi Schellenberg, Monika Eichinger, Markus Polke, Felix J. F. Herth, Michael Kreuter, Konstantina Kontogianni
- PA4624** **Women in interventional pulmonology - results from a worldwide survey**  
Judith Brock (Heidelberg, Germany), Sonja Zehetmayer, Daniela Gompelmann
- PA4625** **Evaluation of safety of Trans-Bronchial Cryo-Biopsy in patients with pulmonary hypertension: A prospective single center study**  
David Shitrit (Kfar Saba, Israel), Hadas Gilboa, Ayal Romem
- PA4626** **Impact of ultrathin cryoprobe on conventional radial EBUS guided transbronchial cryobiopsy of lung nodules**  
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Chan Sin Chai, Nga Hung Ngu, Rong Lih Ho, Mei Ching Yong, Siew Kim Chan, Adam Malik Ismail, Siew Teck Tie
- PA4627** **Safety and cost-effectiveness of transbronchial lung cryobiopsy with or without a pre-placed balloon in diagnosing interstitial lung disease**  
Mingming Deng (Beijing, China), Gang Hou, Yiding Bian
- PA4628** **Healthy volunteer symptom profile following research bronchoscopy**  
Hazel Morrison (Bridgwater (Somerset), United Kingdom), Susan Jackson, Julia Marshall, Celia Mitton, Raquel Lopez Ramon, Timothy Fredsgaard-Jones, Andrew Mawer, Clare Wilkins, Henry Bettinson, Timothy Hinks, Helen Meshane
- PA4629** **Shape Sensing Robotic-Assisted Bronchoscopy for Diagnosis of Ground-Glass and Subsolid Pulmonary Nodules**  
David Abia-Trujillo (St Johns, United States), Nikitha C. Chandra, Alejandra Yu Lee-Mateus, Anoop Koratala, Sina Neshat, Neal M. Patel, Katherine L. Walsh, Ryan M. Chadha, Sebastian Fernandez-Bussy
- PA4630** **Diagnostic yield of bronchoalveolar lavage in the investigation of lung cancer**  
Stephanie Wang (Dollard des Ormeaux, Canada), Laetitia Amar, Ping Shi Zhu

PS-3 in poster area

Session 448

12:30 - 14:00

## Poster session: Exercise capacity in respiratory diseases

**Disease(s) :** Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases | Respiratory critical care | Thoracic oncology | Sleep and breathing disorders

**Method(s) :** General respiratory patient care | Physiology | Pulmonary rehabilitation | Surgery | Pulmonary function testing | Public health | Respiratory intensive care

**Tag(s) :** Clinical

**Chairs :** Christina M. Spengler (Zürich, Switzerland), J. Alberto Neder (Kingston (ON), Canada)

- PA4631** **Unraveling fatigue in fibrotic interstitial lung disease: perceived and performance mechanisms**  
Mathieu Marillier (Echirolles, France), Mathieu Gruet, Anne-Catherine Bernard, Samuel Vergès, Onofre Moran-Mendoza, J. Alberto Neder
- PA4632** **Description of breathing pattern disorder using sample entropy index in post-COVID19 dyspnoea**  
Ivan Guerreiro (Geneva, Switzerland), Aurélien Bringard, Pascal Weber, Viva Leverington, Anna Taboni, Frédéric Lador
- PA4633** **Importance of Cardiopulmonary Exercise Testing to differ Long COVID-19 Symptoms in Adults considering gender**  
Cássia Goulart (São Carlos, Brazil), Guilherme Areas, Guilherme Dionir Back, Fernanda Facioli Dos Reis Borges, Jefferson D. Silva-Valente, Camila Sato Barros Do Amaral, Edival Ferreira De Oliveira Júnior, Eduardo Fernandes Da Silva Junior, Thaís Jordão Perez Sant'Anna Motta, Audrey Borghi-Silva, Fernando Val
- PA4634** **Identical breath-by-breath and mixing-chamber gas exchange values of cardio-pulmonary exercise test systems by metabolic simulator**  
Herman Groepenhoff (Lijnden, Netherlands), Janmarten Burg Van Den, Joachim Schwertberger, Tjeu Souren
- PA4635** **Association between the first ventilatory threshold and the lean mass**  
Vitalie Faoro (Brussels, Belgium), Corentin Scoubeau, Alexis Gillet, Olivier Taton, Marine Carpentier, Julie Carpentier, Malgorzata Klass
- PA4636** **Minute ventilation and heart rate relationship: a simplified approach for cardiopulmonary exercise testing.**  
Matteo Morviducci (Roma, Italy), Flavio Marco Mirabelli, Luigi Panza, Daniel Piamonti, Roberto Flore, Giulia Lo Muzio, Altea Lecci, Dario Angelone, Paolo Palange

PA4637	<b>Ventilation rate and bronchial response in diagnosis of exercise-induced bronchospasm in asthmatic</b> Debora Carneiro de Mendonca (Vitória de Santo Antão, Brazil), Glúvia Maria Barros Delmondes, Bruno Rafael Vieira Souza Silva, Laienne Carla Barbosa De Barros Albuquerque, José Angelo Rizzo, Claudio Gonçalves De Albuquerque, Steve Hunter, Nadia Gaua, Edil Albuquerque Rodrigues Filho, Decio Medeiros, Emilia Chagas Costa, Marcos André De Moura Santos, Marco Aurélio De Valois Correia Júnior
PA4638	<b>Proportional Tidal Volume Variation during cardio-pulmonary exercise testing to diagnose Dysfunctional Breathing in Patients with Exertional Dyspnoea</b> Florent Baty (St. Gallen, Switzerland), Georg Knöpfel, Friedrich Uhl, Lukas Kern, Martin Brutsche
PA4639	<b>Exercise capacity in myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) treated with long-term pyridostigmine</b> Sarrah Al-Zayer (Boston, United States), Johanna Squires, David Systrom
PA4640	<b>Validation of a new modified 6-minute walk test (6MWT)</b> Winfried Baden (Tübingen, Germany), Richard Spallek, Ludger Sieverding
PA4641	<b>Comparison of the 6-minute walk test (6MWT) with submaximal cardiopulmonary exercise testing (CPET) in patients diseased with transthyretin amyloidosis with cardiomyopathy (ATTR-CM)</b> Robin Willixhofer (Vienna, Austria), Dadjar Immanuel Hostermann, Farideh Alasti, David Niederseer, Roza Badr-Eslam
PA4642	<b>The mBorg/6MWD ratio – a method to assess exertional breathlessness and leg fatigue using the 6-minute walk test: the CanCOLD study</b> Magnus Ekström (Lund, Sweden), Pei Zhi Li, Hayley Lewthwaite, Jean Bourbeau, Wan Tan, Dennis Jensen
PA4643	<b>6MWT performance of COPD exacerbators</b> Zlatina Ivanova (Pleven, Bulgaria), Nikolay Kyuchukov, Yavor Ivanov
PA4644	<b>Assessment of physical performance (PP) in patients with wild-type Transthyretin Amyloid Cardiomyopathy (ATTR-CM) evaluated by cardiopulmonary exercise testing (CPET) – a long-term follow-up study</b> Robin Willixhofer (Vienna, Austria), Rene Retzl, Christina Kronberger, Franz Duca, Christina Binder, Andreas Kammerlander, Johannes Kastner, Jutta Bergler-Klein, Roza Badr-Eslam
PA4645	<b>HR/V'O<sub>2</sub> and HR/V'CO<sub>2</sub> slope: new tools for CPET evaluation?</b> Flavio Marco Mirabelli (Roma, Italy), Matteo Morviducci, Luigi Panza, Daniel Piamonti, Roberto Flore, Giulia Lo Muzio, Altea Lecci, Dario Angelone, Paolo Palange
PA4646	<b>Re-evaluating the optimal threshold for the VE/VCO<sub>2</sub>-slope in risk stratification before lung cancer surgery</b> Karolina Kristenson (Linköping, Sweden), Johan Hylander, Miklos Boros, Anna Fyrenius, Kristofer Hedman
PA4647	<b>Altered ventilation efficiency at exercise after recovery from COVID-19 infection versus healthy controls</b> Emilie Maufroy (Bruxelles, Belgium), Corentin Scoubeau, Kevin Forton, Manon Bellaches, Cyril Tordeur, Vitalie Faoro, Gael Deboeck
PA4648	<b>Severity and phenotypes of dyspnea in asthma: impact of comorbidities</b> Cécile Chenivresse (Lille Cedex, France), Awa Bousso, Celine Chuffart, Maxime Leroy, Alice Gicquello, Aurelie Cottereau, Florence Hennegrave, Antoine Beurnier, Thomas Stoup, Sophie Pereira, Capucine Morelot-Panzini, Camille Taille, Nathalie Bautin, Stephanie Fry, Thierry Perez, Gilles Garcia
PA4649	<b>Assessment of a novel 15 Watt/minute incremental ramp treadmill protocol for cardio-pulmonary exercise testing in Indian population.</b> Geetanjali Bade (New Delhi (Delhi), India), Abhijith K Anil, Kumar Nischay Jaiswal, Anjana Talwar
PA4650	<b>Late Breaking Abstract - Phenotyping dynamic and "static" lung volumes in COPD: implications for exertional dyspnoea and exercise tolerance</b> J. Alberto Nader (Kingston (ON), Canada), Danilo C. Berton, Franciele Plachi, Cecilia Rodenbusch, Devin Phillips, Reggie Smyth, Matthew James, Sophie Crinion, Juan Pablo De-Torres, Denis E. O'Donnell

PS-4 in poster area

Session 449

12:30 - 14:00

Poster session: How to optimise non-invasive ventilation: how to initiate, what to monitor and how to adjust?

Disease(s) : Airway diseases Sleep and breathing disorders Respiratory critical care Pulmonary vascular diseases

Method(s) : General respiratory patient care Pulmonary function testing Respiratory intensive care Physiology

Tag(s) : Clinical

Chairs : Maxime Patout (Paris, France), Tim Raveling (Groningen, Netherlands)

- PA4651 Ventilation titration: different signals, different settings?**  
Anna Ridgers (Heidelberg, Australia), Warren Ruehland, Liam M Hannan, David J Berlowitz, Mark E Howard
- 
- PA4652 Reliability of nocturnal transcutaneous capnography in a real-world scenario**  
Cristhian Correa (Madrid, Spain), Daniel Lopez Padilla, Stephany Briones Alvarado, Manuel Mor Martínez, Katiuska Herminia Liendo Martínez, Elena Ojeda Castillejo, Ilaf Latif Essa, Francisco Jose Caballero Segura, Luis Puente Maestu, Soledad López Martin
- 
- PA4653 Automatic detection of ineffective efforts (IE) in non-invasive ventilation (NIV)**  
Pablo Florez Solarana (Sabadell, Spain), Cristina Lalmolda Puyol, Marta Corral-Blanco, Ana Hernández Voth, Concepción Montón Soler, Xavier Pomares Amigó, Javier Sayas Catalán, Manel Luján Torné
- 
- PA4654 The forced oscillation technique is useful for evaluation of high-flow nasal cannula. Federation of National Public Service Personnel Mutual Aid Association**  
miyuki okuda (neyagawa, Japan)
- 
- PA4655 Development of a Questionnaire for Therapy Adherence and Comfort in Non-invasive Ventilation: a simple Instrument for the Assessment of Patient-relevant Parameters**  
Doreen Kroppen (Köln, Germany), Maximilian Wollsching-, Daniel Majorski, Maximilian Zimmermann, Melanie Berger, Wolfram Windisch, Sarah Schwarz
- 
- PA4656 Within- and between-day reliability of inspiratory responses to rapid bilateral magnetic phrenic nerve stimulation**  
Kyle Boyle (Zurich, Switzerland), Andrea Beglinger, Heinrich Häusler, Patrick Schön, Christina Spengler
- 
- PA4657 Deventilation syndrome in COPD patients receiving non-invasive ventilation: A systematic scoping review**  
Maximilian Wollsching-Strobel (Köln, Germany), Karsten Stannek, Daniel Majorski, Friederike Magnet, Doreen Kroppen, Melanie Berger, Maximilian Zimmermann, Wolfram Windisch, Sarah Schwarz
- 
- PA4658 The use of home-based nocturnal capnography and oxymetry in personalized long-term non-invasive ventilation in COPD patients**  
Line Storgaard (Aabybro, Denmark), Nicolas Siadous, Anne-Mette Meldgaard, Ulla M. Weinreich
- 
- PA4659 Adaptation of non-invasive mechanical ventilation at home vs adaptation in hospital**  
Cristina Sánchez Fernández (Oropesa, Spain), Daniel Eduardo López Padilla, Virginia Gallo González, Katiuska Herminia Liendo Martínez, Soledad López Martínez, Elena Ojeda Castillejo, Luis Puente Maestu, Teresa Gómez García
- 
- PA4660 Outpatient initiation of non-invasive home ventilation. Two-year experience in a referral hospital. Real-life observational study.**  
Ane Lopez Gonzalez (Barcelona, Spain), Cristina Aljama Vizcarra, María Saéz López, Júlia Sampol, Miriam Barrecheguren, Mercedes Pallero, Nuria Rodés, Gabriel Sampol, Sergi Martí
- 
- PA4661 The evaluation of home non-invasive ventilation with telemonitoring in stable hypercapnic COPD patients: A retrospective case-control study**  
Lok Yan Lee (Hong Kong, Hong Kong), Huilin Cheng, Alice Yuen Loke, Suk Fong Wai, Kah Lin Choo
- 
- PA4662 Successful ongoing experience of outpatient/telemedicine NIV initiation and follow-up in ALS patients during and after COVID pandemic**  
Gualtiero Ermando Romano (Bari, Italy), Paola Pierucci, Marialuisa De Candia, Pierluigi Intiglietta, Simone Rizzelli, Alberto Carrassi, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpagnano
- 
- PA4663 Implementation of an advanced clinical practitioner led NIV follow up service in a secondary care setting**  
Hannah Petty (Manchester, United Kingdom), Emma Gray, Nashad Mohiuddin, Peter Mulgrew, Thomas Bongers
- 
- PA4664 Validation of the S3-NIV-questionnaire in Danish and symptom burden in COPD patients in long-term non-invasive ventilation treatment**  
Line Storgaard (Aabybro, Denmark), Nicolas Siadous, Anne-Mette Meldgaard, Ulla M. Weinreich
- 
- PA4665 Effect of Non-Invasive Ventilation on FVC and diaphragm thickening fraction improvement in AE-COPD with hypercapnic acidosis and acute respiratory failure**  
Salvatore Longobardi (Milan, Italy), Sara Bombelli, Claudia D'Antoni, Fabrizio Nava, Sara Mariani, Michele Chiericozzi, Paolo Tarsia
- 
- PA4666 Comparison of constant-minute-volume vs. constant-bolus systems for ambulatory long-term-oxygen therapy in patients with severe COPD – a randomized crossover trial**  
Daniel Majorski (Cologne, Germany), Saba Khan, Sarah Schwarz, Maximilian Wollsching-Strobel, Doreen Kroppen, Tim Mathes, Friederike Magnet, Wolfram Windisch

PS-5 in poster area

Session 450

12:30 - 14:00

Poster session: Increasing understanding of host-microbe interactions in lung diseases

**Disease(s) :** Airway diseases Respiratory critical care Interstitial lung diseases

**Method(s) :** Cell and molecular biology Physiology Epidemiology Respiratory intensive care

**Tag(s) :** Basic science, Translational

**Chairs :** Sara Rolandsson Enes (Lund, Sweden), Chair to be confirmed

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- PA4667** **The effect of *Porphyromonas gingivalis* on inflammatory pathology in normal or COPD airway**  
Noriki Takahashi (Kumamoto, Japan), Toru Kariu, Megumi Hayashi, Tomoki Kishimoto, Choyo Ogasawara, Ayami Fukuyama, Keisuke Kawano, Mary Ann Suico, Hirofumi Kai, Tsuyoshi Shuto
- 
- PA4668** **Effects of hypercapnia on alveolar epithelial cells and macrophages infected with pneumonia-causing bacteria**  
Elena Campaña-Duel (Sabadell, Spain), Luís Morales-Quinteros, Adrian Ceccato, Aina Areny-Balagueró, Pamela Conde, Luísl Blanch, Laia Fernández, Antonio Artigas, Marta Camprubí-Rimblas
- 
- PA4669** **Prone position ventilation decreased the susceptibility to murine *Pseudomonas aeruginosa* pneumonia**  
Matthias Felten (Berlin, Germany), Jingjing Li, Chunjiang Tan, Sebastian Ferencik, Theresa Firsching, Achim Gruber, Martin Witzernath
- 
- PA4670** **Virilaza™ Inhibits SARS-CoV-2-induced Inflammatory Response of Bronchial Epithelial Cells and Pulmonary Fibroblasts**  
Rodolfo De Paula Vieira (Anápolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anamei Silva-Reis, Lucas Dos Santos Zamarioli, Sergei Urusov, Tatyana Mostepan, Evgenya Kravchenko, Carlos Rocha Oliveira, Rubens Santos-Silva, Razi Ronen
- 
- PA4671** **Epithelial recovery post COVID-19**  
Bavithra Vijayakumar (London, United Kingdom), James Tonkin, Christopher M Orton, Justin L Garner, David J S Smith, Richard J Hewitt, Philip L Molyneaux, James A Harker, Pallav L Shah, Clare M Lloyd
- 
- PA4672** **LPS treatment enhances the immunomodulatory effect of mesenchymal stromal cells-derived extracellular vesicles**  
Aina Areny Balagueró (Sabadell, Spain), Marta Camprubí-Rimblas, Elena Campaña-Duel, Adrián Ceccato, Daniel Closa, Antonio Artigas
- 
- PA4673** **Expression levels of receptors for avian-type flu and SARS-CoV-2 are reciprocally correlated with differentiation in primary human bronchial epithelial cells**  
Misako Nakayama (Munich, Germany), Yuri Morikawa, Takako Sasamura, Jun Terai, Thanh Cong Nguyen, Yasushi Itoh
- 
- PA4674** **LSC - 2023 - Activated -inflammatory states of airway cells in Long COVID**  
Nadia Baalbaki (Bennekom, Netherlands), Merel Cornelissen, Cornelis Van Drunen, Laura Houweling, Lieke Noij, Marco Van De Werken, Golebski Korneliusz, Anke-Hilse Maitland-Van Der Zee
- 
- PA4675** **Relative abundance of *Haemophilus* as a component of the respiratory microbiome is not associated with airway epithelial MUC5AC staining**  
Koirobi Haldar (Leicester, United Kingdom), Sarah Diver, Kairobi Haldar, Latifa Khalfaoui, Fiona Symon, Simon Couillard, Beverley Hargadon, Rekha Chaudhuri, Steve Bicknell, Adel Mansur, Rahul Shrimanker, Timothy Hinks, Ian Pavord, Stephen Fowler, Vanessa Brown, Lorcan Mcgarvey, Liam Heaney, Cary Austin, Peter Howarth, Joseph Arron, David Choy, Peter Bradding On Behalf Of The Investigators For The Uk Mrc Refractory Asthma Stratification Program (rasp-Uk)
- 
- PA4676** **Post-biotics preferentially induce human macrophages M1 polarization: a valuable effect to balance allergic immune responses and to control infections**  
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Maria Ferraro, Simona Taverna, Velia Malizia, Marco Buscetta, Chiara Cipollina, Valentina Lazzara, Paola Pinto, Marco Bassano, Stefania La Grutta
- 
- PA4677** **Cellular stress and senescence in alpha-1 antitrypsin deficiency: therapeutic opportunities**  
Mark Murphy (Dublin, Ireland), Lasya Kanchi, Malcolm Herron, Tomás Carroll, Gerry McElvaney
- 
- PA4678** **Modification of azithromycin to counter its arrest of autophagy**  
Eugenio Roscioli (Adelaide (SA), Australia), Anton Blencowe, Susan E Lester, Matthew M Miller, Vesna Munic Kos, Benjamin T Kopp, Hubertus P A Jersmann, Paul N Reynolds
- 
- PA4679** **Effects of patient serum containing different profiles and magnitudes of inflammatory markers on human microvascular lung endothelial and bronchial epithelial cells**  
Kokilavani Sivaraman (Hannover, Germany), Julia Held, Thomas Illig, Sonja Volland, Tobias Welte, Sabine Wrenger, Sabina Janciauskiene
- 
- PA4680** **In vivo inflammation resolving effect of EP395**  
Yanira Riffo-Vasquez (London, United Kingdom), Michael J. Parnham, Clive Page, Jennifer A. Kricker
- 
- PA4681** **Eosinophilia and the microbiome in COPD**  
Gunnar Reksten Husebø (Fana, Norway), Rune Nielsen, Kristel Knudsen, Andreu Paytuví-Gallart, Walter Sanseverino, Tomas Eagan
-

- PA4682 Counter-Regulation of the proteasome activator PA200 and the immunoproteasome in lung Fibroblasts– Implications for anti-viral immune responses in IPF**  
Fatme Mourtada (Borstel, Germany), Vanessa Welk, Johannes Nowak, Angelique Sanchez Dafun, Dušan Zivković, Julien Marcoux, Marie-Pierre Bousquet, Juergen Behr, Silke Meiners
- PA4683 Biomass particles activate IKB- $\alpha$ , P-38 and ERK pathways in human macrophages.**  
Peter Fenwick (London, United Kingdom), Rebecca Holloway, Sundeep Salvi, Peter Barnes, Louise Donnelly
- PA4684 Cigarette smoke impact on human macrophage cell death and inflammation: role of caspase-8, -3/7 and Gasdermin E**  
Marta Cristaldi (Palermo, Italy), Marco Buscetta, Maura Cimino, Agnese La Mensa, Fabio Bucchieri, Francesca Rappa, Pia Ferrigno, Giovanna Lo Iacono, Giorgia Tancredi, Santina Amato, Tommaso Silvano Aronica, Elisabetta Pace, Alessandro Bertani, Chiara Cipollina
- PA4685 Cigarette smoke exposure promotes tumorigenesis via G-quadruplex destabilization in a vitro model of macrophages**  
Davida Mirra (Caserta, Italy), Giuseppe Spaziano, Renata Esposito, Francesca Panico, Salvatore Di Maro, Erica Salvati, Erika Cione, Luca Gallelli, Sandro Cosconati, Bruno D'Agostino
- PA4686 Cigarette smoke activates the pro-inflammatory axis caspase-8/caspase-3/7/GSDME in human lung fibroblasts**  
Chiara Cipollina (Palermo (PA), Italy), Agnese La Mensa, Marco Buscetta, Marta Cristaldi, Maura Cimino, Paola Dino, Maria Rita Giuffre', Fabio Bucchieri

## PS-6 in poster area

## Session 451

12:30 - 14:00

## Poster session: Navigating the latest chronic obstructive pulmonary disease therapeutic trends

Disease(s) : **Airway diseases**

Method(s) : Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology

Tag(s) : Clinical

Chairs : Carolina Gotera (Madrid, Spain), Gareth Hynes (Oxford (Oxfordshire), United Kingdom)

- PA4687 Step up to ICS/LAMA/LABA vs switch to LAMA/LABA in patients with COPD on ICS/LABA: post hoc analysis of KRONOS**  
Dave Singh (Manchester, United Kingdom), Mona Bafadhel, Karin Bowen, Niki Arya, Jonathan Marshall, Himanshu Parikh, Mehul Patel
- PA4688 Persistence to inhaled long-acting maintenance therapy in patients with COPD in UK routine clinical practice**  
Kieran J. Rothnie (London, United Kingdom), Robert P. Wood, Beade Numbere, Monica Seif, Gema Requena, Christina Diomatari, Emma C. Goodall, Stephen G. Noorduyn, Charley Cooper, Raj Sharma, Chris Compton, Afisi S. Ismaila
- PA4689 Heterogeneous treatment effect estimation of LABA/LAMA/ICS on COPD exacerbation risk in the IMPACT trial**  
Kenneth Verstraete (Leuven, Belgium), Iwein Gyselinck, Helene Huts, Maarten De Vos, Wim Janssens
- PA4690 Experience of clinicians on dual bronchodilator therapy in COPD (EXPAND) in Nepal**  
Ramesh Chokhani (Kathmandu, Nepal), Sanjeet Krishna Shrestha, Sharad Bhattarai, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay
- PA4691 Clinically important deterioration and COPD treatments: a pairwise meta-analysis**  
Gian Marco Manzetti (Marino, Italy), Luigino Calzetta, Mario Cazzola, Paola Rogliani
- PA4692 Methods to assess adherence to COPD medication in electronic healthcare databases: a systematic review**  
Delphine Vauterin (Ghent, Belgium), Frauke Van Vaerenbergh, Anna Vanoverschelde, Jennifer K Quint, Katia Verhamme, Lies Lahousse
- PA4693 Adherence to COPD treatment during the war: can we maintain the previously achieved results ?**  
Nataliia Slepchenko (Vinnytsya, Ukraine), Andrii Sidorov, Yuriy Mostovoy, Nataliia Tsymbaliuk
- PA4694 Adherence to COPD treatment and concomitant diseases: is there influence ?**  
Nataliia Slepchenko (Vinnytsya, Ukraine), Andrii Sidorov, Yuriy Mostovoy, Nataliia Tsymbaliuk
- PA4695 Tulobuterol Transdermal Patch as an add on therapy in Stable COPD**  
Beena Thomas (Kollam (Kerala), India), Parakkal Sukumaran, Thomas Beena, R Radhika, M Midhun, P Rekha, K P Venugopal, Ninan Mathew, Rekha Parameswari
- PA4696 Inhaled triple therapy versus dual bronchodilation in smokers patients with COPD: a 3-year observational study**  
Angelo Petroianni (Roma (RM), Italy), Marco Bezzio, Silvia Magliulo, Manuel Santu, Paolo Palange
- PA4697 The national development in the use of inhaled corticosteroid treatment for chronic obstructive pulmonary disease in Denmark from 1995 to 2018**  
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke

- PA4698** **Economic benefit of fluticasone furoate (FF)/umeclidinium (UMEC)/vilanterol (VI) by baseline blood eosinophil (EOS) count in COPD in the UK - The IMPACT trial**  
Stephen G Noorduyn (Mississauga, Canada), Afisi S Ismaila, Dhvani Shah, Alan Martin, Robyn Kendall, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton
- PA4699** **Does azithromycin modulate cardiovascular risk following acute pulmonary exacerbations of chronic obstructive pulmonary disease?**  
Freddy Frost (Liverpool, United Kingdom), Tomasso Bucci, Dennis Wat, Sarah Sibley, David Green, Gregory Lip
- PA4700** **Safety and efficacy of home initiation of chronic non-invasive ventilation in patients with severe COPD and chronic hypercapnic respiratory failure.**  
Emma Parkes (Cardiff, United Kingdom), Eilish Yarham, Kirsty Eastwood, Michelle Davies, Stuart Packham
- PA4701** **A meta-analysis on the importance of peak inspiratory flow variance in simplifying DPI prescribing for COPD patients**  
Monbi Stefanova Chakma (London, United Kingdom), Omar S Usmani, Liangfeng Han, Bryan Newman, Eslam Ibrahim, Darragh Murnane
- PA4702** **Inhaler technique mastery in elderly COPD patients with cognitive impairment trained on different inhaler devices**  
Federico Lavorini (Firenze (FI), Italy), Elsa Mazzarella, Letizia Dal Bosco, Alessandra Sorano, Guido Arena, Riccardo Soldaini, Amedeo Vannacci
- PA4703** **Extra-fine Particle Inhaled Corticosteroids Influence on the Risk of Hospitalization due to Pneumonia in Patients with Chronic Obstructive Pulmonary Disease - A Populations-Based Cohort Study**  
Christian Kjer Heerfordt (Hellerup, Denmark), Christian Rønn, Zitta Barrella Harboe, Pradeesh Sivepalan, Josefin Eklöf, Jens-Ulrik Stæhr Jensen
- PA4704** **The Impact of Extrafine Beclometasone/Formoterol/Glycopyrronium on Sleep disturbance in Chronic Obstructive Pulmonary Disease (COPD) in an Italian Context of Real Life: The TRITRIAL Study.**  
Alessio Piraino (Roma (RM), Italy), Luca Richeldi, Pietro Schino, Elena Bargagli, Alberto Ricci, Alberto Rocca, Francesca Marchesani, Alfio Pennisi, Gianna Camiciottoli, Mariella D'Amato, Francesco Macagno, Ulrica Scaffidi Argentina, Elena Garavelli, Eleonora Ingrassia
- PA4706** **Characteristics of COPD patients initiating budesonide/glycopyrronium/formoterol (BGF) and other triple therapy in Japan: a health-care claims-based real-world database study (MITOS program)**  
Koichiro Takahashi (Saga, Japan), Naoyuki Makita, Johann Castaneda, Ramzi Argoubi, Gregoire Nowacki, Scham Issa, Isao Matsumoto, Yuri Yoshida, Hana Mullerova

PS-7 in poster area

Session 452

12:30 - 14:00

Poster session: Biological treatments for asthma: novel real-life insights

Disease(s) : **Airway diseases**

Method(s) : Pulmonary function testing General respiratory patient care Epidemiology Public health Cell and molecular biology

Tag(s) : Clinical, Translational

Chairs : Nicolas Roche (Paris, France), Simon Lea (Manchester (Greater Manchester), United Kingdom)

- PA4707** **BIOLOGIC TREATMENT IN PERSISTENT SEVERE ASTHMA**  
Eduarne Echevarría Guerrero (Barakaldo, Spain), Ana Gómez Larrauri, Jone Solorzano Egurbide, Imanol González Muñoz, Elena Garay Llorente, Teresa Bretos Dorronsoro, Silvia Pérez Fernández, Milagros Iriberrri Pascual, Nuria Marina Malanda
- PA4708** **Initiation, response assessment and switch of antibody therapies in patients with severe asthma – a survey among German specialists**  
Hendrik Suhling (Hannover, Germany), Carlo Mümmler, Dirk Skowasch, Karl Bergmann, Roland Buhl, Eckard Hamelmann, Marko Idzko, Christian Taube, Stephanie Korn, Katrin Milger
- PA4709** **Follow-up of patients with severe eosinophilic asthma receiving benralizumab for one year (gReek rEAL Life regIStry of benralizumuMab: REALISM Study)**  
Konstantinos Samitas (Athens, Greece), Chrysoula Kontogianni, Petros Bakakos, Nikoleta Rovina, Stelios Loukides, Andrianna Papaioannou, Nikolaos Tzanakis, Katerina Antoniou, Katerina Dimakou, Georgios Hillas, Sofia Koukidou, Aikaterini-Ioanna Sakellaropoulou, Konstantinos Katsoulis, Maria Kipourou, Niki Georgatou, Dimosthenis Papapetrou, Ourania Kotsiou, Nikolaos Zias, Evangelia Fouka, Konstantinos Porpodis, Maria Hatzimitrova, Despoina Papakosta, Paschalis Steiropoulos, Konstantinos Kostikas, Athena Gogali, Agapi Aggelopoulou, Konstantinos Tatsis, Ilias Papanikolaou, Eleftheria Chaini, Miltiadis Markatos, Stelios Vittorakis, Pantelis Avarlis, Eleni Gaki, Dimitrios Latsios, Eleni Tzortzaki, Eleftherios Zervas
- PA4710** **Treating severe IgE mediated allergic adult asthmatics with omalizumab outside the dosing table**  
Etienne Ceci Bonello (Naxxar, Malta), Caroline Gouder

- PA4711 Agreement and discrepancies between past prescribing decisions and future prescribing preferences: An EU outlook**  
Samantha Valliant (Upper Providence, United States), Joshua Harvey, Shiyuan Zhang, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Rafael Alfonso-Cristancho
- 
- PA4712 Biologic treatment patterns of severe asthma patients in the EU-4 and the UK**  
Samantha Valliant (Upper Providence, United States), Joshua Harvey, Shiyuan Zhang, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Rafael Alfonso-Cristancho
- 
- PA4713 Real-world experience of biologics use and switching among adults with severe asthma at a tertiary care centre in United Arab Emirates**  
Yasser Alkassar (Abu Dhabi, United Arab Emirates), Aymen Abbas, Abeer Hassan, Emadullah Raidullah Raidullah, Rehab Al Maashari, Marwan Najib, Muhammad Tufail Tufail
- 
- PA4714 Phenotypical distribution according to the age of asthma onset in patients evaluated for biologic therapy prescription in a referral center in Colombia**  
Abraham Ali Munive (Bogotá (Cundinamarca), Colombia), Yaicith Arevalo-Montenegro, Oscar Correa-Jimenez, Leidy Prada, Libardo Jimenez-Maldonado, Mauricio Duran, Juan Bedoya, Carlos A. Torres-Duque
- 
- PA4715 An algorithm to identify patients with T2 diseases and Chronic Spontaneous Urticaria treated with biologics in outpatient care setting using a dynamic dispensing database**  
Jérémy Charriot (Montpellier Cedex 5, France), Vincent Descamps, Roger Jankowski, Milka Maravic, Arnaud Bourdin
- 
- PA4716 The effect of biologicals on lung function, inflammation and asthma control in patients treated for severe eosinophilic or type-2 inflammatory asthma 4 months after treatment initiation.**  
Peter Emil Folkersen (Århus C, Denmark), Johannes Schmid, Tina Skjold, Anne Sophie Bjerrum
- 
- PA4717 The clinical experience of patients with severe asthma and previous treatment with omalizumab, choosing mepolizumab in Greece.**  
Maria Kallieri (Aspropyrgos, Greece), Andriana I. Papaioannou, Eleftherios Zervas, Evangelia Fouka, Konstantinos Porpodis, Marija Hadji Mitrova, Eleni Tzortzaki, Michael Makris, Maria Ntakoula, Panagiotis Lyberopoulos, Katerina Dimakou, Sofia Koukidou, Sevasti Ampelioti, Anastasia Papaporfyriou, Konstantinos Katsoulis, Maria Kipourou, Nikolettta Rovina, Katerina Antoniou, Stylianos Vittorakis, Petros Bakakos, Paschalis Steiropoulos, Katerina Markopoulou, Panteleimon Avarlis, Ilias C. Papanikolaou, Miltiadis Markatos, Eleni Gaki, Konstantinos Samitas, Konstantinos Glynos, Spyros A. Papiris, Despoina Papakosta, Nikolaos Tzanakis, Mina Gaga, Konstantinos Kostikas, Stelios Loukides
- 
- PA4718 PERSISTENCE OF EOSINOPHILS IN BRONCHIAL MUCOSA BIOPSIES IN PATIENTS TREATED WITH DUPILUMAB FOR 6 MONTHS**  
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Andrea Cristiano, Adriano Vaghi
- 
- PA4719 Eosinophils sub-types in patients with severe asthma treated with monoclonal antibodies.**  
Alejandra Sánchez-Santos (Las Palmas de Gran Canaria, Spain), Carlos Cabrera-López, Angelina Lemes-Catellano, Sara Cazorla-Rivero, Enrique González-Dávila, Bartolomé Celli, Ciro Casanova-Macario
- 
- PA4720 Long-term safety and efficacy of tezepelumab in adolescents with severe, uncontrolled asthma**  
Guy Brusselle (Ghent, Belgium), Bill Cook, Kaitlyn Lawson, Sandhia Ponnarambil, Andrew Lindsley, Daiana Stolz
- 
- PA4721 Inhaled corticosteroid dose reduction with tezepelumab in patients with severe, uncontrolled asthma over 2 years**  
Daiana Stolz (Freiburg, Germany), Njira Lugogo, Kaitlyn Lawson, Gene Colice, Sandhia Ponnarambil, Scott Caveney, Shradha Chandarana, Bill Cook
- 
- PA4722 On-treatment clinical remission with tezepelumab in patients with severe, uncontrolled asthma in the phase 3 DESTINATION study**  
Michael E. Wechsler (Denver, United States), Guy Brusselle, J Christian Virchow, Liam G Heaney, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Jean-Pierre Llanos, Celeste Porsbjerg, Christopher E Brightling
- 
- PA4723 Success of an oral corticosteroid withdrawal pathway for severe asthma patients on biologics**  
Richard Russell (Leicester, United Kingdom), Claire Boddy, Mark Bell, Eleanor Hampson, Lauren Parnell, Shamsa Naveed, Karim Meeran, Salman Siddiqui, Peter Bradding
- 
- PA4724 Successful steroid weaning in a severe asthma centre does not always require biologics**  
Emma Graham (Plymouth, United Kingdom), Chellan Eames, Ciara Whitfield, Sumita Kerley, Eleanor Rayala-Montaniel, Peter Cook, Hans Michael Haitchi, Ramesh Kurukulaaratchy, Paddy Dennison, Nadia Zarif, Hitasha Rupani
- 
- PA4725 Effectiveness and economic impact of Dupilumab in asthma: a population-based cohort study**  
Pietro Curci (Monza, Italy), Paola Faverio, Raffaella Ronco, Matteo Monzio Compagnoni, Matteo Franchi, Giovanni Franco, Giulia Bonaiti, Martina Bonifazi, Federico Mei, Fabrizio Luppi, Giovanni Corrao



**Asthma control in severe asthma patients treated with tezepelumab: A prospective, observational, real-world evidence study in Europe and Canada (ASCENT)**

PA4726 Katrin Milger-Kneidinger (Munich, Germany), Del Dorscheid, Christian Gessner, Fredrik Sundbom, Daiana Stolz, Hannah Urbanski, Tham Le, Benjamin Emmanuel, Trung Tran, Deborah Clarke, Jean-Pierre Llanos, Nicole Clarke, Tim Ruckh, Sheena Kayaniyil, Neil Martin, Neda Stjepanovic, Celeste Porsbjerg

PS-8 in poster area

Session 453

12:30 - 14:00

## Poster session: Severe asthma

Disease(s) : Airway diseases Respiratory critical care

Method(s) : General respiratory patient care Pulmonary function testing Physiology Epidemiology Public health Cell and molecular biology

Tag(s) : Clinical

Chairs : Fabio L. M. Ricciardolo (Torino, Italy), Stylianos Loukides (Athens, Greece)

PA4727 **Improved spirometric and oscillometric indices in severe asthma with clinical remission by anti-IL-5/IL-5 receptor alpha antibodies**

Taisuke Akamatsu (Shizuoka, Japan), Kohei Okawa, Keita Hirai, Toshihiro Shirai

PA4728 **Small airway changes assessed by impulse oscillometry in severe asthmatic patients treated with Benralizumab**

Cristina De Juana Izquierdo (VALENCIA, Spain), Andrés Sánchez Vera, Eva María Abril Ródenas, Elisa Lillo González, Vicente Abella Sanchís, Alejandro Álvarez Brito, Eva Martínez Moragón

PA4729 **Effect of prior anti-IL5 treatment on benralizumab outcomes in severe asthma**

Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Mina Naderisemiromi, Taqdees Qureshi, Leanne Holmes, Lynn Elsey, Thomas Pantin, Stephen Fowler

PA4730 **Well-controlled severe asthmatics: who they really are?**

Venere Piluso (Rome, Italy), Francesca Cefaloni, Cristina Boccabella, Luca Richeldi, Matteo Bonini

PA4731 **Parasite screening in a large pre-biologic severe eosinophilic asthma population**

Irene Berrar Torre (London, United Kingdom), Kena Simpson, Rachel Stead, Victoria Nicholas, Darius Armstrong-James, Breda Cushen, Pujan Patel

PA4732 **Severe Asthma Questionnaire (SAQ) And Asthma Control Questionnaire (ACQ) As Early Predictors Of Biologic Response In Severe Asthma.**

Drew Davies (Exeter, United Kingdom), Joseph Lanario, Micheal Hyland, Mathew Masoli

PA4733 **Adrenal insufficiency in corticosteroids dependent asthma: a single center experience**

ERICA FALZONE (Orbassano (TO), Italy), Giuseppe Reimondo, Stefano Pizzimenti, Cristina Botto, Anna Maria Elena Perini, Vitina Carriero, Francesca Bertolini, Elisa Arrigo, Stefano Levra, Massimo Terzolo, Fabio Luigi Massimo Ricciardolo, Giuseppe Guida

PA4734 **Assessment of the impact of infection SARS-CoV-2 on the control and Lung function of patients with severe asthma**

Ana Pedro Cunha Craveiro (Boidobra-Covilhã, Portugal), Margarida Gomes, Julia Cunha Silva, Ana Mendes, Maria Elisa Pedro

PA4735 **What adds the new definition of bronchodilator responsiveness in asthmatic adults?**

Hela Fakhfakh (Sfax, Tunisia), Rim Kammoun, Emna Eleuch, Asma Haddar, Molk Maalej, Ines Kammoun, Kawthar Masmoudi

PA4736 **A retrospective real-life study on the switch of biologics in severe asthma**

Sonia Garino (Rivalta di Torino, Italy), Giuseppe Guida, Elisa Riccardi, Vitina Carriero, Francesca Bertolini, Mattia Brusamento, Stefano Pizzimenti, Stefano Levra, Fabio Luigi Massimo Ricciardolo

PA4737 **The effect of anti-IL-5 biologics on lung function in adults with severe eosinophilic asthma.**

Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Brendan Cooper, Julie Sullivan, Lisa White, Anilkumar Pillai, Adel Mansur

PA4738 **Effectiveness of anti-IL5 biologics in severe asthma, based on real world observational studies: a systematic review**

Dimitrios Potonos (Ioannina, Greece), Konstantinos Exarchos, Christina Aggelopoulou, Evangelos Beris, Aggelos Ladias, Christos Kyriakopoulos, Athena Gogali, Konstantinos Kostikas

PA4739 **“Head-to-head” comparison between biologics in severe asthma: a real-world study**

Elisa Riccardi (Massino Visconti, Italy), Giuseppe Guida, Sonia Garino, Francesca Bertolini, Vitina Carriero, Mattia Brusamento, Stefano Pizzimenti, Stefano Levra, Fabio Luigi Massimo Ricciardolo

**PA4740** **Characterisation of asthma in patients with fixed obstructive ventilatory disorder**  
Ines Moussa (Bizerte, Tunisia), SABRINE ELFIDHA, Hadhemi Rejeb, Rania Kaddoussi, Bochra Karaborni, Hanen Smadhi, Dorra Greb, Ines Akrouf, Hajer Abdelghaffar, Hela Hassene, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche

**PA4741** **Effects of anti-IL5 receptor  $\alpha$  in severe asthma: a real-life study**  
Francesco Ardesi (Milan, Italy), Martina Zappa, Patrizia Pignatti, Sarah Grossi, Rosella Centis, Dina Visca, Antonio Spanevello

**PA4742** **Phenotyping severe asthma attacks in patients hospitalised with acute asthma**  
Mouaid Aljehani (Nottingham, United Kingdom), Tim Harrison, Matthew Martin

**PA4743** **Characteristics of severe asthma patients and predictors of asthma control in the Swiss Severe Asthma Registry**  
Fabienne Jaun (Liestal, Switzerland), Lydia Maria Troester, Stéphanie Giezendanner, Pierre-Olivier Bridevaux, Florian Charbonnier, Christian Clarenbach, Pietro Gianella, Anja Jochmann, Lukas Kern, David Miedinger, Nikolay Pavlov, Thomas Rothe, Claudia Steurer-Stey, Christophe Von Garnier, Joerg Daniel Leuppi

**PA4744** **Persistent airflow limitation in severe asthma: should we talk about a specific phenotype?**  
Francesca Cefaloni (Rome, Italy), Cristina Boccabella, Luca Richeldi, Matteo Bonini

**PA4745** **Effects of benralizumab therapy in patients with severe eosinophilic asthma: a single-center experience**  
Borislav Božanić (Niš, Republic of Serbia), Marija Topalović, Ivana Stanković, Tatjana Pejčić, Desa Nastasijević Borovac, Ana Srbulović Božanić, Marija Marinković, Zoran Stamenković, Milan Radović, Lidija Ristić, Milan Rančić

**PA4746** **Late Breaking Abstract - Novel Index assesses severe asthma care across 29 OECD countries**  
Patrick Gallen (Copenhagen K, Denmark), Bogi Eliassen, Joe-Max Wakim, José Manuel Jerez Pombo, Emilie Balk Møller

## PS-9 in poster area

## Session 454

12:30 - 14:00

## Poster session: The impact of comorbidities and infection on the outcome of airways disease and response to treatment

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#) [Pulmonary vascular diseases](#)

Method(s) : Cell and molecular biology Imaging General respiratory patient care Pulmonary function testing Epidemiology Public health Endoscopy and interventional pulmonology

Tag(s) : Clinical, Translational

Chairs : Cindy Barnig (Besançon, France), Christina Bal (Wien, Austria)

**PA4747** **Burden of asthma and risk factors associated with hospitalization: results of 290 centers of the SWORD OPD survey**  
Sheetu Singh (Jaipur (Rajasthan), India), Bharat Bhushan Sharma, Arvind Sharma, Krishna Kumar Sharma, Kp Suraj, Tariq Mehmood, Kumar Utsav Samaria, Surya Kant, Nishtha Singh, Tejraj Singh, Aradhana Singh, Rajeev Gupta, Parvaiz A Koul, Sundeep Salvi, Virendra Singh

**PA4748** **Real-life effects of dupilumab in patients with severe type 2 asthma, according to atopic trait and presence of chronic rhinosinusitis with nasal polyps**  
Corrado Pelaia (Catanzaro (CZ), Italy), Alida Benfante, Maria Teresa Busceti, Maria Filomena Caiaffa, Raffaele Campisi, Giovanna Elisiana Carpagnano, Nunzio Crimi, Maria D'Amato, Maria Pia Foschino Barbaro, Angelantonio Maglio, Elena Minenna, Santi Nolasco, Giuseppe Paglino, Francesco Papia, Girolamo Pelaia, Andrea Portacci, Luisa Ricciardi, Nicola Scichilone, Giulia Scioscia, Massimo Triggiani, Giuseppe Valenti, Alessandro Vatrella, Claudia Crimi

**PA4749** **Asthma diagnosis and symptoms in an allergen immunotherapy trial treating grass pollen induced rhinoconjunctivitis**  
Bjarke Hviid-Vyff (Aarhus C, Denmark), Johannes Martin Schmid, Hans Jürgen Hoffmann

**PA4750** **High-dose aspirin in severe uncontrolled asthma associated with chronic rhinosinusitis with nasal polyps (CRwNP) : the ASTHMIRINE trial**  
Mathilde Le Brun (Paris, France), Gilles Devouassoux, Cécile Chenivresse, Gilles Garcia, Philippe Bonniaud, Alain Didier, Frédéric De Blay, Catherine Neukirch, Arnaud Bourdin, Pascal Chanez, Guillaume Mahay, Angelica Tiotiu, Amandine Vial-Dupuy, Candice Estellat, Marina Esposito-Farèse, Camille Couffignal, Camille Taillé

**PA4751** **Allergen-specific immunotherapy in adults with birch pollen-related asthma: real life evidence**  
Jiri Nevrlka (Brno, Czech Republic), Katarina Ditetova, Zlatica Nevrlkova, Lenka Zdrzilova-Dubska

**PA4752** **German Asthma Net: Nasal polyposis in patients with severe asthma**  
Christina Bal (Wien, Austria), Katrin Milger, Dirk Skowasch, Monika Gappa, Cordula Koerner-Rettberg, Margret Jandl, Olaf Schmidt, Rainer Ehmann, Slagjana Stoshikj, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

PA4753	<b>Effectiveness and Safety of Anti-IL-5/R<math>\alpha</math> Biologics in Eosinophilic Granulomatosis with Polyangiitis: A Two-Year Multicenter Observational Study</b> Santi Nolasco (Catania, Italy), Andrea Portacci, Raffaele Campisi, Enrico Buonamico, Corrado Pelaia, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiaffa, Giulia Scioscia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papia, Alessandra Tomasello, Nunzio Crimi, Nicola Scichilone, Girolamo Pelaia, Giovanna Elisiana Carpagnano, Claudia Crimi
PA4754	<b>Role of Galectin-10 (Gal-10) in nasal epithelium inflammation and remodeling of children with seasonal allergic rhinitis (SAR)</b> Rosalia Gagliardo (Palermo (PA), Italy), Olga Maria Manna, Stefania La Grutta, Velia Malizia, Alberto Fucarino, Francesca Rappa, Domiziana Picone, Salvatore Fasola, Mirella Profita, Fabio Bucchieri
PA4755	<b>Grading the severity of the local side effects induced by Sublingual Immunotherapy for Allergic Respiratory Disease</b> ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamdi, Zied Moatameri
PA4756	<b>Obese asthma with positive type-2 inflammation markers: Cytokine profiles and potential pathogenesis</b> Masako To (Saitama, Japan), Natsue Honda, Kosuke Haruki, Yasuo To
PA4757	<b>Real-world outcomes with mepolizumab in patients with severe asthma and comorbid anxiety/depression: REALITI-A at 2 years</b> Rekha Chaudhuri (Glasgow (Glasgow), United Kingdom), Mark C. Liu, Diego Bagnasco, Andrea Matucci, Charles Pilette, Robert G. Price, Lydia Demetriou, Peter Howarth
PA4758	<b>Experience of the COVID-19 pandemic in asthmatic patients</b> Soumaya Ben Saad (Ariana, Tunisia), Safa belkhir, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritar
PA4759	<b>The Burden of Allergic Bronchopulmonary Aspergillosis in Post-Tuberculosis Lung Disease Patients Presenting to a Tertiary Referral Centre</b> Animesh Ray (Kolkata (West Bengal), India), Anuj Ajay, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Naveet Wig
PA4760	<b>Doctors Clinical-Decision making Algorithm for Allergy to Anti-Tuberculosis Drugs in Tunisia</b> ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamedi, Zied Moatameri
PA4761	<b>The role of specific and total IgE in COPD</b> Eleni Papakonstantinou (Basel, Switzerland), Meropi Karakioulaki, Caroline-Maria Berkemeier, Leticia Grize, Ingmar Heijnen, Antonis Goulas, Michael Tamm, Daiana Stolz
PA4762	<b>Patient burden on refractory and unexplained chronic cough: a qualitative survey in Japan</b> Takekazu Kubo (Tokyo, Japan), Naoya Ueda, Masakazu Igarashi, Anzu Yakushiji, Shigeru Tokita
PA4764	<b>Anti-staphylococcal enterotoxin A and B immunoglobulin E in COPD</b> Eleni Papakonstantinou (Basel, Switzerland), Meropi Karakioulaki, Caroline-Maria Berkemeier, Ingmar Heijnen, Leticia Grize, Antonis Goulas, Michael Tamm, Daiana Stolz
PA4765	<b>Clinical relevance of Staphylococcus aureus nasal colonization and Staphylococcal enterotoxin-specific IgE sensitization in late-onset asthma</b> Ha-Kyeong Won (Seoul, Republic of Korea), Youngsang Yoo, Jiwon Lee, Noeul Kang, Ji-Hyang Lee, Jun-Pyo Choi, Tae-Bum Kim, Sang Heon Cho, Woo-Jung Song
PA4766	<b>Modelling small airways disease at air-liquid-interface with extended NTHi biofilm co-culture: Implications in COPD.</b> Jake Weeks (Southampton, United Kingdom), C. Mirella Spalluto, M. Vicky Humbert, Tom Wilkinson, Kristoffer Ostridge, Karl Staples

Red 1+2

Session 455

12:45 - 13:45

Joint session: Healthcare based on Value ... about time

ERS / Industry joint session sponsored by AirLiquide and AstraZeneca

Chairs : Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

12:45	<b>Value based health care in diverse healthcare contexts?</b> Zofia Das-Gupta (, United Kingdom)	4767
13:00	<b>Panel on value-based healthcare in COPD - my view</b> Job F.M. van Boven (Groningen, Netherlands), Simon Barry (Vale of Glamorgan, United Kingdom), Nicholas Hopkinson (London, United Kingdom), Mikaela Odemyr (Järved, Sweden)	4768

13:20 **Questions and answers**  
All Speakers

4769

12:45-13:45

INDUSTRY LUNCHTIME SYMPOSIUM

SEE PAGE 1

Gold Session 460 13:45 - 15:15

**State of the art session: Interstitial lung diseases****Filling the gaps in care for interstitial lung diseases**

**Aims :** to discuss: 1) the primary care setting, exploring symptom evaluation in ILDs; 2) the novel assessment of idiopathic pulmonary fibrosis (IPF) management in light of different phase 3 clinical trials of this disease; 3) hypersensitivity pneumonitis (HP) and recent guidelines from different societies, such as novel therapeutic advances after the introduction of antifibrotic therapy in progressive HP; 4) the lungs with the common disease (also in the primary care setting) rheumatoid arthritis, focusing on the ILD component, and, more specifically, address whether its pathogenesis starts from the lungs.

**Disease(s) :** [Interstitial lung diseases](#)

**Method(s) :** General respiratory patient care Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)

13:45 **Symptom management in ILD**  
Kerri Ilene Aronson (New York, United States) 4785

14:00 **Precision medicine in IPF**  
Athol Wells (London, United Kingdom) 4786

14:15 **New developments in HP diagnosis and therapeutic management**  
Martina Koziar Vasakova (Praha 10, Czech Republic) 4787

14:30 **Rheumatoid arthritis and the lungs: new concepts and treatments**  
Katerina Antoniou (Heraklion, Greece) 4788

14:45 **Discussion and Q&A**  
All Speakers 4789

Silver Session 461 13:45 - 15:15

**Symposium: The 'silent zone' is heard: latest insights and updates in small airways disease in asthma and chronic obstructive pulmonary disease**

**Aims :** to provide an update on recent research into the increasing importance of small airways diseases in patients with asthma and chronic obstructive pulmonary disease (COPD); to describe new developments in the assessment of small airways diseases using physiological methods; to provide an update on evidence for the clinical impact of small airways diseases on patient-related outcomes; to highlight recent data regarding treatment targeted at small airways diseases and how this relates to clinical outcomes.

**Disease(s) :** [Airway diseases](#)

**Method(s) :** General respiratory patient care Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

**Chairs :** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

13:45 **Small airways and early origins of airway disease: pathobiological considerations**  
Francesca Polverino (Houston, United States) 4790

14:00 **Advances in physiological assessments of small airways diseases in asthma and COPD for everyday clinical practice**  
Chung-Wai Chow (Toronto (ON), Canada) 4791

14:15 **Evidence for the clinical impact of small airways diseases on patient-related outcomes in patients with asthma and COPD**  
Monica Kraft (New York, United States) 4792

14:30 **Targeting and treating small airways disease in patients with asthma and COPD** 4793  
Omar S. Usmani (London, United Kingdom)

14:45 **Discussion and Q&A** 4794  
All Speakers

**Coral 4+5** **Session 462** **13:45 - 15:15**

**Clinical trials session: ALERT 3: Keeping lungs healthy for life**

**#BeSmokeFree - #BreatheCleanAir**

**Aims :** The ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials) showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, discussants, session chairs and the audience will actively discuss the showcased trials.

**Disease(s) :** **Airway diseases**

**Method(s) :** Epidemiology Public health General respiratory patient care

**Tag(s) :** Clinical

**Chairs :** Florence Schleich (Liège, Belgium), Charlotte Suppli Ulrik (Virum, Denmark), Kjeld Hansen (Oslo, Norway)

**Discussants :** Jonathan Grigg (London, United Kingdom), Aslı Görek Dilektaşlı (Bursa, Turkey)

**RCT4795** **Embedding smoking cessation support into targeted lung health checks in the UK increases long-term smoking abstinence, 12-month follow-up data from two clinical randomised controlled trials.**  
Parris Williams (London, United Kingdom), Keir Philip, Sara Buttery, Emily Bartlett, Anand Devaraj, Jamie Addis, Jane Derbyshire, Michelle Chen, Anthony Laverty, Nicholas Hopkinson

**RCT4796** **RCT Abstract - Varenicline and nicotine replacement therapy for smokers admitted to hospitals: a randomized, placebo-controlled trial**  
Michael J. Abramson (Melbourne (VIC), Australia), Greg Weeks, Rukshar Gobarani, Billie Bonevski, Ashley Webb, Dennis Thomas, Eldho Paul, Rehan Sarwar, Brian Smith, Sharmilla Perinpanathan, Sue Kirsas, Jacqueline Parkinson, Darshana Meanger, Lisa Coward, Olivia Rofe, Paula Lee, Denise Van Den Bosch, Johnson George

**RCT4797** **Wrap-up by discussant and discussion**  
Aslı Görek Dilektaşlı (Bursa, Turkey)

**RCT4798** **Impact of exposure reduction recommendations on health outcomes in children with asthma during high desert dust season in Greece and Cyprus: Results of the MEDEA randomised trial**  
Panayiotis Kouis (Nicosia, Cyprus), Emmanouil Galanakis, Paraskevi Kinni, Eleni Michaelidou, Antonis Michanikou, Helen Demetriou, Maria G. Kakkoura, Pinelopi Anagnostopoulou, Konstantinos Pitsios, Stafania I. Papatheodorou, Petros Koutrakis, Panayiotis K. Yiallourous

**RCT4799** **A cluster randomised controlled trial to reduce respiratory effects of cotton dust exposure among textile workers – the MultiTex RCT study**  
Asaad Ahmed Nafees (Karachi, Pakistan), Muhammad Masood Kadir, James Potts, Cosetta Minelli, Sean Semple, Sara De Matteis, Peter Burney, Paul Cullinan

**RCT4800** **Wrap-up by discussant and discussion**  
Jonathan Grigg (London, United Kingdom)

**RCT4803** **Closing remarks**  
All Speakers

**Coral 3** **Session 463** **13:45 - 15:15**

**Hot topics: Incidental findings in low dose computed tomography lung cancer screening programmes: be aware, be prepared!**

**Aims :** to highlight potential benefits and harms of incidental findings in low dose computed tomography lung cancer screening programmes; to present complementary professional perspectives of latest evidence and to add up to multidisciplinary management strategies.

**Disease(s) :** **Thoracic oncology**

**Method(s) :** Endoscopy and interventional pulmonology Epidemiology Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

13:45	<b>Incidental findings: the Radiologist's experience</b> Jens Vogel-Claussen (Hannover, Germany)	4804
14:00	<b>Incidental findings: the AI's answers</b>	4805
14:15	<b>Patient's perspective</b> Raul Jorge Saraiva Simões Maia (, Portugal)	4806
14:20	<b>Incidental findings: the GP's perspective</b> Vjekoslava Amerl Šakić (Zagreb, Croatia)	4807
14:35	<b>The pulmonologist's new challenge: emphysema and ILA out of LDCT</b> Juan Pablo de Torres Tajés (Zizur Mayor, Spain)	4808
14:50	<b>Discussion and Q&amp;A</b> All Speakers	4809

## Coral 1 Session 464 13:45 - 15:15

### Symposium: Lung cancer screening: turning up the heat and moving onwards

**Aims :** to focus on the best practices and latest developments in lung cancer screening; to address topics relevant to an international audience by reviewing current data to highlight success and help remove barriers to increased adoption of efficient lung cancer screening programmes; to facilitate meaningful interaction between clinicians and researchers involved in different aspects of early detection (imaging, biomarkers, quality assurance, research, etc.) and relevant research.

**Disease(s) :** Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)

13:45	<b>Biomarkers in lung cancer screening: can they impact clinical management plans?</b> Ehab Billatos (Boston, United States)	4810
14:00	<b>Lung cancer detection by the electronic nose</b> Wouter H. van Geffen (Leeuwarden, Netherlands)	4811
14:15	<b>Emerging bronchoscopic options for early detection of lung cancer</b> Pallav L. Shah (London, United Kingdom)	4812
14:30	<b>Lung cancer screening in Europe: a first snapshot by SOLACE</b> Marie-Pierre Revel (Paris, France)	4813
14:45	<b>Discussion and Q&amp;A</b> All Speakers	4814

## Coral 2 Session 465 13:45 - 15:15

### State of the art session: Respiratory critical care

#### Noninvasive and invasive mechanical ventilation in acute respiratory diseases

**Aims :** to provide a state of the art overview of mechanical ventilation in acute respiratory failure, i.e., acute respiratory distress syndrome (ARDS), acute exacerbation of chronic obstructive pulmonary disease and beyond.

**Disease(s) :** Respiratory critical care

**Method(s) :** General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Dries Testelmans (Leuven, Belgium), Claudia Crimi (Catania (CT), Italy), Ignacio Martin-Loeches (Dublin, Ireland)

13:45	<b>Molecular mechanisms of ventilator induced lung injury</b> Martin Witzernath (Berlin, Germany)	4815
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14:00	<b>Evidence-based invasive mechanical ventilation in ARDS</b> Lise Piquilloud (Lausanne, Switzerland)	4816
14:15	<b>Extracorporeal membrane oxygenation in ARDS: state of the art</b> Christian Karagiannidis (Cologne, Germany)	4817
14:30	<b>Weaning from mechanical ventilation</b> Leo Heunks (Amsterdam, Netherlands)	4818
14:45	<b>Discussion and Q&amp;A</b> All Speakers	4819

## Purple

## Session 466

13:45 - 15:15

## Mini symposium: Genetics in paediatric respiratory diseases

## Genetic heterogeneity underlies phenotype and therapeutic approaches

**Aims :** to present the main process and challenges of genetic data interpretation; to list the main genetic diagnostic tools and their limitations; to provide the audience with key tips to read a genetic report. to discuss importance of genotyping for three model monogenic diseases that can affect newborns or occur later in life (cystic fibrosis, surfactant disorders and primary ciliary dyskinesia): to illustrate the phenotype-genotype correlation diversity and gene/mutation(s) distinct consequences at the cell level; to explain the consequences of molecular diagnosis on vital prognosis at birth, follow-up, lung cancer risk later in life and genetic counselling; to explain how genotypes connect with current personalised treatments and their development.

**Disease(s) :** Airway diseases Interstitial lung diseases Paediatric respiratory diseases

**Method(s) :** Cell and molecular biology Epidemiology General respiratory patient care

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Respiratory therapist

**Chairs :** Nicole Beydon (Paris, France), Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia)

13:45	<b>Patient's perspective</b> Robinne De Backker (, Belgium)	4820
13:50	<b>Basics of genetic diagnostics</b> Marie Legendre (Paris, France)	4821
14:05	<b>Surfactant disorders: from neonatal respiratory distress to cancer predisposition</b> Lawrence Mark Noguee (Baltimore, United States)	4822
14:20	<b>Models for ciliated airway epithelial cells and personalised medicine</b> Andrew Berical (Boston, United States)	4823
14:35	<b>Discussion and Q&amp;A</b> All Speakers	4824

14:00-14:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

## Red 1+2

## Session 468

14:15 - 15:30

## Oral presentation: Pulmonary embolism: acute and long-term management (1)

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Cell and molecular biology Epidemiology Pulmonary rehabilitation Imaging

**Tag(s) :** Clinical

**Chairs :** Laurent Bertoletti (Saint Etienne Cedex, France), Lucilla Piccari (Barcelona, Spain)

OA4827	<b>Pulmonary embolism diagnostic strategies in patients with COPD exacerbation: post-hoc analysis of the PEP trial</b> Francis Couturaud (Brest, France), Vicky Mai, Geoffroy Rambaud, Camille Motreff, Olivier Sanchez, Pierre-Marie Roy, Yannick Auffret, Raphael Le Mao, Frédéric Gagnadoux, Nicolas Paleiron, Jeannot Schmidt, Jean Pastre, Michel Nonent, Cécile Tromeur, Pierre-Yves Salaun, Patrick Mismetti, Philippe Girard, Karine Lacut, Catherine Lemarié, Guy Meyer, Christophe Leroyer, Grégoire Le Gal, Laurent Bertoletti
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- OA4828 Evolution of cardiac biomarkers and short-term prognosis in pulmonary embolism**  
Laurent Bertoletti (Saint Etienne Cedex, France), Maxime Castan, Luc Janisset, Valentine Mismetti, Géraldine Poenou, Raphaël Lachand, Sandrine Accassat, Thibault Leconte, Elie Ayoub, Loic Villeneuve, Cyril Noto-Campanella, Alain Viallon
- 
- OA4829 Outpatient management of cancer-related pulmonary embolism: a post-hoc analysis of the HOME-PE trial**  
Sérine Chaïbi (Nogent sur Marne, France), Pierre-Marie Roy, Armelle Arnoux, Andrea Penaloza, Olivier Hugli, Antoine Elias, Francis Couturaud, Luc-Marie Joly, Raphaëlle Lopez, Laura M. Faber, Benjamin Planquette, Jérôme Bokobza, Damien Viglino, Jeannot Schmidt, Henry Juchet, Isabelle Mahé, Frits Mulder, Nicolas Falvo, Karine Montclair, Charlotte Steinier, Stephan V. Hendriks, Ygal Benhamou, Tali-Anne Szwebel, Gilles Pernod, François-Xavier Lapebie, Nicolas Javaud, Alexandre Ghuysen, Mustapha Sebbane, David Jimenez, Menno V. Huisman, Frederikus A. Klok, Olivier Sanchez
- 
- OA4830 The utility of routine systematic respiratory assessment following initial management of acute pulmonary embolism**  
Sarah Shuker (Coventry, United Kingdom), Emma Helm, Benjamin Bailiff, David Parr
- 
- OA4831 MicroRNAs as predictors of chronic thromboembolic pulmonary hypertension**  
Remedios Otero Candelera (Sevilla, Spain), Julia Oto Martínez, Olga Tura Ceide, David Hervás Marín, Elena Arellano Orden, Isabel Blanco, Víctor Peinado, Pilar Medina Badenes, Joan Albert Barberá, Verónica Sánchez Lopez
- 
- OA4832 HDAC6 regulates endothelial-to-mesenchymal transition in venous thrombosis**  
Catherine Lemarie (BREST, France), Marion Pilard, Virginie Gourdou-Latyszenok, Sara Robin, Francis Couturaud
- 
- OA4833 Rehabilitation to improve exercise capacity and quality of life after pulmonary embolism**  
Øyvind Jervan (Fredrikstad, Norway), Stacey Haukeland Parker, Jostein Gleditsch, Mazdak Tavoly, Frederikus Klok, Kjetil Steine, Hege Hølmo Johannessen, Martijn Spruit, Dan Atar, Rene Holst, Anders Erik Astrup Dahm, Per Anton Sirnes, Knut Stavem, Waleed Ghanima
- 
- OA4834 Rate of clinically relevant bleeding and recurrent venous thromboembolism according to location of the metastases in patients with cancer associated thrombosis.**  
Victor García García (Sevilla, Spain), Maria Barca-Hernando, Samira Marin Romero, Sergio Lopez Ruz, Teresa Elias-Hernandez, Luis Jara Palomares
- 
- OA4835 Case fatality rate of recurrent venous thromboembolism and clinically relevant bleeding in patients with cancer.**  
Maria Barca Hernando (Sevilla, Spain), Sergio Lopez-Ruz, Victor Garcia-Garcia, Samira Marin-Romero, Teresa Elias-Hernandez, Luis Jara-Palomares
- 
- OA4836 Discussion and Q&A**  
All Speakers

## Brown 3

## Session 469

14:15 - 15:30

## Oral presentation: Sleep apnoea phenotyping: clinical features, pathophysiology, and biomarkers

Disease(s) : Sleep and breathing disorders

Method(s) : General respiratory patient care Physiology Cell and molecular biology Epidemiology

Tag(s) : Clinical

Chairs : Athanasia Pataka (Thessaloniki, Greece), Renaud Tamisier (Grenoble, France)

- OA4837 Late Breaking Abstract - Obstructive sleep apnoea phenotypes in women: data from the ESADA cohort**  
Athanasia Pataka (Thessaloniki, Greece), Sebastien Bailly, Maria Bonsignore, Tarja Saaresranta, Sofia Schiza, Izolde Bouloukaki, Paschalis Steiropoulos, Georgia Trakada, Renata Riha, Zoran Dogas, Dries Testelmans, Ozen Basoglu, Stefan Mihaicuta, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of The Esada Group
- 
- OA4838 OSA pathophysiological traits in Milan and Monza-Brianza**  
Elisa Perger (Milano, Italy), Anna Monzani, Paolo Meriggi, Margarida V. Matias, Laura Garzillo, Marta Tundo, Antonio Foresi, Gianfranco Parati, Paola Faverio, Fabrizio Luppi, Carolina Lombardi
- 
- OA4839 Modification of OSA endotypic traits by sulthiame**  
Erik Hoff (Göteborg, Sweden), Christian Strassberger, Ding Zou, Kaj Stenlöf, Ludger Grote, Jan Hedner
- 
- OA4840 Redefining the Baveno Classification for obstructive sleep apnea**  
Sandhya Matthes (Solingen, Germany), Marcel Tremml, Lars Hagemeyer, Winfried Randerath



OA4841	<p><b>Ischemia-modified albumin: an innovative biomarker evaluating cardiovascular risk in Obstructive Sleep Apnea patients.</b> Pilar Resano Barrio (Guadalajara, Spain), Enrique Alfaro García, Esther Solano Pérez, Carlota Coso Serrano, Carolina Cubillos Zapata, Elena Díaz García, Sofia Romero Peralta, María Esther Viejo Ayuso, Laura Silgado Martínez, Leticia Álvarez Balado, María Castillo García, Rosa Mediano San Andrés, Irene Cano Pumarega, Jorge Abad, Joaquín Durán Cantolla, Amaia Urrutia, María José Masdeu, Estrella Ordax Carbajo, Juan Fernando Masa, Mónica De La Peña, Mercè Mayos, Ramón Coloma, Josep María Montserrat, Eusebi Chiner, Jose Luis Izquierdo, Ferrán Barbé, Francisco García Río, Manuel Sánchez De La Torre, Olga Mediano</p>
OA4842	<p><b>Obstructive sleep apnea with excessive daytime sleepiness is an independent risk factor for all-cause mortality: The Skara Sleep Cohort</b> Ding Zou (Gothenburg, Sweden), Ying Li, Ludger Grote, Ulf Lindblad, Jan Hedner*, Bledar Daka*</p>
OA4843	<p><b>Prevalence of depression partly explains heterogeneity in prevalence of excessive daytime sleepiness in patients from different Countries in the European Sleep Apnea Database (ESADA)</b> Maria Rosaria Bonsignore (Palermo, Italy), Sebastien Bailly, Fabio Cibella, Alessandra Castrogiovanni, Sofia Schiza, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of Esada</p>
OA4844	<p><b>Excessive daytime sleepiness across Europe in OSA patients from the ESADA cohort: does cultural differences matters?</b> Izolde Bouloukaki (Heraklion (Crete), Greece), Renata Riha, Ludger Grote, Marisa Bonsignore, Jan Hedner, Jean-Louis Pépin, Athanasia Pataka, Winfried Randerath, Sébastien Bailly, Silke Ryan, Sophia Schiza</p>
OA4845	<p><b>Overnight variation of premature ventricular complexes in patients with CSA and heart failure</b> Christoph Fisser (Regensburg, Germany), Amelie Ebert, Valentin Günzler, Florian Zeman, Dominik Linz, Holger Wöhrle, Renaud Tamisier, Martin R Cowie, Michael Arzt</p>
OA4846	<p><b>Incongruence of the apnea-hypopnea index in detecting intermittent desaturations at very high altitude</b> Elisa Perger (Milano, Italy), Margarida V. Matias, Davide Soranna, Antonella Zambon, Javier Cantuarias, Simona Bertoli, Carolina Lombardi, Gianfranco Parati</p>
OA4847	<p><b>Discussion and Q&amp;A</b> All Speakers</p>

**Brown 1+2** **Session 470** **14:15 - 15:30**

**Oral presentation: Personalised medicine and deep learning in interstitial lung disease and chronic obstructive pulmonary disease imaging**

**Disease(s) :** [Airway diseases](#) [Interstitial lung diseases](#)

**Method(s) :** Imaging Pulmonary function testing

**Tag(s) :** Clinical

**Chairs :** [Ádám Domonkos Tárnoki \(Budapest, Hungary\)](#), [Lucio Calandriello \(Rome, Italy\)](#)

OA4848	<p><b>Late Breaking Abstract - Artificial intelligence-based decision support for HRCT stratification in fibrotic lung disease; an international study of 116 observers from 37 countries.</b> Lucio Calandriello (Rome, Italy), John Mackintosh, Federico Felder, Aditya Agrawal, Omer Alamoudi, Laura Alberti, Giuseppe Aquaro, Juan Arenas-Jiménez, Iain Au-Yong, Sergey Avdeev, Maurizio Balbi, Bruno Baldi, Andrea Yu-Lin Ban, Ionela-Nicoleta Belaconi, Elisabeth Bendstrup, David Bennett, Hans-Christian Blum, Nicola Boscolo Bariga, Gracijela Bozovic, Marsel Broqi, John Bruzzi, Ivette Buendia-Roldan, Diana Calaras, Sérgio Campaignha, Roberto G. Carbone, André Carvalho, Lorenzo Cereser, Gin Tsen Chai, Sachin Chaudhary, Nazia Chaudhuri, Patrick Alain Chui Wan Cheong, Wendy Cooper, Giuseppe Cutaia, Rosa D'Abbronzo, Martijn D. De Kruif, Diemen Delgado-García, Sahajal Dhooria, Jesus J Diaz-Castanon, Glenn Eiger, Samantha Ellis, Rosa Estrada-Y-Martin, Yingying Fang</p>
OA4849	<p><b>Alveolar collapse as a prognostic marker in patients with IPF: A CT-based assessment using an extended parametric response mapping technique</b> Sarah Scharm (Hannover, Germany), Jonathan Ehmig, Cornelia Schaefer-Prokop, Anton Schreuder, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Oh Shin</p>
OA4850	<p><b>In-vivo endobronchial-PS-OCT for fibrosis quantification in ILD</b> Tatiana Soldati (Amsterdam, Netherlands), Margherita Vaselli, Kirsten Mooij - Kalverda, Erik Thunnissen, Michael Tanck, Onno Mets, Inge Van Den Berk, Jouke Annema, Peter Bonta, Johannes De Boer</p>
OA4851	<p><b>Prognostic modeling in idiopathic pulmonary fibrosis using deep learning</b> Alexandre Coimbra (South San Francisco, United States), Neha Anegondi, Yixuan Zou, Xuefeng Hou, Mohammadreza Negahdar, Dorothy Cheung, Paula Belloni, Alex De Crespigny</p>

- OA4852** **A deep learning algorithm for predicting disease progression in idiopathic pulmonary fibrosis**  
Simon Walsh (London, United Kingdom), Yingying Fang, Federico Felder, Guang Yang, John Mackintosh, Lucio Calandriello, Mario Silva, Wendy Cooper, Ian Glaspole, Nicole Goh, Christopher Grainge, Peter Hopkins, Yuben Moodley, Navaratnam Vidya, Paul Reynolds, Athol Wells, Tamera Corte
- 
- OA4853** **Deep learning-based quantification of traction bronchiectasis severity for predicting outcome in idiopathic pulmonary fibrosis**  
Federico Felder (London, United Kingdom), Yang Nan, Guang Yang, John Mackintosh, Lucio Calandriello, Mario Silva, Ian Glaspole, Nicole Goh, Wendy Cooper, Christopher Grainge, Peter Hopkins, Yuben Moodley, Navaratnam Vidya, Paul Reynolds, Athol Wells, Tamera Corte, Simon Walsh
- 
- OA4854** **Comparison of parenchyma density scoring in RA-ILD vs IPF and iNSIP**  
Bálint Ács (Székesfehérvár, Hungary), Miklós Zsiray, Diana Solymosi, Réka Gajdócsi, Tünde Harkó, Vivien Leskó-Jancsó, Anna Kerpel-Fronius
- 
- OA4855** **Endobronchial polarization sensitive optical coherence tomography for airway wall imaging**  
Sofi Vassileva (Amsterdam, Netherlands), Pieta C. Wijsman, Tatiana Soldati, Margherita Vaselli, Annika W.M. Goorsenberg, Daniel M. De Bruin, Johannes F. De Boer, Jouke T. Annema, Peter I. Bonta
- 
- OA4856** **Towards precision medicine in COPD: Bioradiomic SPECT-CT quantification of active lung inflammation**  
Benjamin Welham (Whitechurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavamwe, Francis Sundram, Tom Wilkinson
- 
- OA4857** **Impaired xenon gas transfer observed two years after COVID-19 hospitalisation in patients with signs of interstitial lung disease**  
Laura Saunders (Hope Valley, United Kingdom), Guilhem Collier, Ho-Fung Chan, Paul Hughes, Laurie Smith, Helen Marshall, Martin Brook, Alberto Biancardi, Madhwesha Rao, Graham Norquay, Neil Stewart, James Grist, Kher Lik Ng, Amanda Goodwin, Jonathan Brooke, Galina Pavlovskaya, Iain Stewart, Andrew Swift, Smitha Rajaram, Phil Molyneaux, Kevin Johnson, Joseph Jacob, Fergus Gleeson, Ian Hall, Thomas Meersmann, Ling-Pei Ho, A A Roger Thompson, Gisli Jenkins, Jim Wild
- 
- OA4858** **Discussion and Q&A**  
All Speakers

Blue 1+2

Session 471

14:15 - 15:30

**Oral presentation: Pneumonia****Method(s)** : Imaging Epidemiology General respiratory patient care Public health Pulmonary rehabilitation Endoscopy and interventional pulmonology**Tag(s)** : Clinical, Translational**Chairs** : Oriol Sibila Vidal (Barcelona, Spain), Michal Shteinberg (Haifa, Israel)

- OA4859** **Late Breaking Abstract - Efficacy of a respiratory syncytial virus (RSV) prefusion F protein vaccine (RSVPreF3 OA) in older adults with co-existing cardiorespiratory conditions**  
Alberto Papi (Cona, Ferrara, Italy), Robert G. Feldman, Raffaele Antonelli-Incalzi, Katie Steenackers, Dong-Gun Lee, Michael G. Ison, Laurence Fissette, Marie-Pierre David, Céline Maréchal, Marie Van Der Wielen, Lusine Kostanyan, Veronica Hulstrøm
- 
- OA4860** **CheXED artificial intelligence to detect radiographic pneumonia in urgent care clinic patients.**  
Nathan Dean (Murray, United States), James Hart, Kathryn Kuttler, Cara Van Uden, Curtis Langlotz, Chad Carman, Thea Sakata
- 
- OA4861** **Individualized treatment rule (ITR) for early steroid use in hospitalized patients with community acquired pneumonia (CAP)**  
Yewande Odeyemi (Washington, United States), Allison Lemahieu, Ognjen Gajic, Schulte Phillip
- 
- OA4862** **Molecular diagnostic resistance patterns in the BALF of hospitalised patients with pneumonia**  
Andrei Darie (Basel, Switzerland), Nina Khanna, Kathleen Jahn, Mirjam Osthoff, Desiree Schumann, Hans Hirsch, Martin Brutsche, Leticia Grize, Michael Tamm, Daiana Stolz
- 
- OA4863** **Diagnostic behaviours among patients with community acquired pneumonia in the age of CoVid-19**  
Phoebe Hazenberg (Liverpool, United Kingdom), Thomas Fitzmaurice, Ryan Robinson, Kev Bailey, Fred Fyles
- 
- OA4864** **Epidemiology of community-acquired pneumonia (CAP) in Europe during the COVID-19 pandemic –preliminary results of PNEUMO study Europe**  
Lisa Hessels (Alkmaar, Netherlands), Sebastiaan Hullegie, Rianne Jahja, Jesús Rodríguez-Baño, Francesco Blasi, Bruno François, James D. Chalmers, Grit Barten-Neiner, Manuel Recio Ruffián, Rosario Menéndez Villanueva, Javier Cobo Reinoso, Damien Viglino, Fabiano Di Marco, Manuel Garcia Gutiérrez, Kelly D. Johnson, Thomas Weiss, Madelyn Ruggieri, Marc Bonten, Cristina Prat Aymerich

**OA4866 The clinical efficacy of cefoperazone-sulbactam versus piperacillin-tazobactam in the treatment of severe community-acquired pneumonia**  
Hsu-Yuan Chen (Taichung City, Taiwan), Chih-Cheng Lai, Wei-Chih Chen, Li-Kuo Kuo, Yao-Tung Wang, Pin-Kuei Fu, Shih-Chi Ku, Wen-Feng Fang, Chin-Ming Chen, Chih-Yen Tu, Wen-Chien Cheng, Chia-Hung Chen

**OA4867 Quality of life following CAP hospitalization: preliminary results from the PNEUMO study Europe**  
Lisa Hessels (Alkmaar, Netherlands), Sebastiaan Hulleger, Rianne Jahja, Jesús Rodríguez-Baño, Isabel Morales Barroso, Francesco Blasi, Bruno François, Rachel Froget, Manuel Recio Ruffian, Angelo Corsico, Brigida Quindos, Kelly D Johnson, Thomas Weiss, Madelyn Ruggieri, Marc Bonten, Cristina Prat-Aymerich

**OA4869 Discussion and Q&A**  
All Speakers

**Yellow 1+2+3 Session 472 14:15 - 15:30**

**Oral presentation: Best abstracts in behavioural science and health psychology**

**Disease(s) :** Sleep and breathing disorders Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** Epidemiology Public health General respiratory patient care Palliative care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Chairs :** Lisa Jane Brighton (London, United Kingdom), Andreas Von Leupoldt (Leuven, Belgium)

**OA4870 Neural gating of respiratory sensations during exercise-induced dyspnea**  
Lucas Vanden Bossche (Leuven, Belgium), Michele R. Schaeffer, Mingqi Zhao, Dante Mantini, Wim Janssens, Thierry Troosters, Daniel Langer, Andreas Von Leupoldt

**OA4871 Mechanism of dyspnea relief from menthol inhalation in healthy adults during loaded breathing trials**  
Michele Schaeffer (Leuven, Belgium), Lucas Vanden Bossche, Valentina Jelinčić, Kristin Verbeke, Daniel Langer, Andreas Von Leupoldt

**OA4872 Greater awareness of errors in patients with COPD**  
Ysys Denuette (Leuven, Belgium), Alicia Gonsalves, Thomas Reijnders, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

**OA4873 Characteristics of people with COPD associated with emotions of shame and guilt**  
Sara Lundell (Umea, Sweden), Sara Kalucza, Anna-Britt Coe, Senada Hajdarevic, Anders Blomberg

**OA4874 Improving performance in Chronic Obstructive Pulmonary Disease (COPD) through expectations: a Randomized Crossover Study**  
Eleonora Volpato (Milano (MI), Italy), Paolo Banfi, Elena Compalati, Francesco Pagnini

**OA4875 Physical inactivity and personality change in people with chronic respiratory diseases**  
Sébastien Kuss (Lodève, France), Nelly Héraud, Brice Canada

**OA4876 Psychosocial factors associated with short-term CPAP usage**  
Leanne Kaye (San Diego, United States), Vy Vuong, Adam Benjafield, Priyanshu Gupta, Meredith Barrett

**OA4877 Pilot Online Psychological Group Intervention for ILD patients**  
Laura Fabbri (London, United Kingdom), Victoria Singh, Melissa Creese, Elizabeth Renzoni

**OA4878 Patient-reported outcomes encourage communication about psychosocial issues in patients with COPD.**  
Louise Muxoll Gronhaug (Vejle, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke, Jannie Frølund

**OA4879 Discussion and Q&A**  
All Speakers

**Amber 3+4 Session 473 14:20 - 17:10**

**Skills workshop: SW15 Thoracic ultrasound basic principles**

**Aims :** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** Rahul Bhatnagar (Bristol, United Kingdom)

**14:20 Introduction**  
Rahul Bhatnagar (Bristol, United Kingdom)

**4880**

14:50	<b>Normal Thoracic Cavity</b> Giovanni Volpicelli (Torino (TO), Italy), Morten Bendixen (Skejby, Denmark)	4881
14:50	<b>Pleural effusion and/or pleural thickening</b> Valentina Pinelli (Sarzana, Italy), Konstantina Kontogianni (Heidelberg, Germany)	4882
14:50	<b>Case studies</b> Radhika Banka (Mumbai (Maharashtra), India)	4883
14:50	<b>Guided interventions</b> Søren Helbo Skaarup (Aarhus C, Denmark), Helen McDill (Bristol (Avon), United Kingdom)	4884

## Amber 1+2 Session 474 14:30 - 16:50

### Skills workshop: SW12 Clinical-radiological-pathological correlation in pulmonary hypertension

**Aims :** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist

**Chairs :** Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)

14:30	<b>Introduction</b> All Speakers	4885
14:30	<b>Radiological assessment of pulmonary hypertension</b> Deepa Gopalan (LONDON, United Kingdom)	4886
14:30	<b>Pathological assessment of pulmonary hypertension</b> Peter Dorfmueller (Le Plessis-Robinson, France)	4887
14:30	<b>Echocardiography in pulmonary hypertension</b> Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)	4888
14:30	<b>Clinical assessment of pulmonary hypertension</b> Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)	4889

## Gold Session 475 15:30 - 17:00

### Clinical cases: Lungs on fire: interstitial lung diseases?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Interstitial lung diseases Respiratory infections

**Tag(s) :** Clinical

**Chairs :** Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)

**Discussants :** Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

15:30	<b>Case 1 incl. panel discussion and Q&amp;A - Author: J. R. Macedo Pacheco (Portugal)</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands)	4890
15:52	<b>Case 2 incl. panel discussion and Q&amp;A - Author: P. Sharma (India)</b> Michael Kreuter (Heidelberg, Germany)	4891
16:14	<b>Case 3 incl. panel discussion and Q&amp;A - Author: L. Benuzzi (Italy)</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands)	4892
16:36	<b>Case 4 incl. panel discussion and Q&amp;A - Author: R. G. Girolamo (Italy)</b> Michael Kreuter (Heidelberg, Germany)	4893

## Silver

## Session 476

15:30 - 17:00

## Journal session: The best of the European Respiratory Journal

**Aims :** to review the best publications in the European Respiratory Journal (ERJ) on key topics in 2022–2023, covering environment and health, interstitial lung disease, COVID-19 and airways disease.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

15:30	<b>The best of the ERJ: air pollution and climate change</b> Isabella Annesi Maesano (Montpellier, France)	4894
15:45	<b>The best of the ERJ: airways disease</b> Mona Bafadhel (London, United Kingdom)	4895
16:00	<b>The best of the ERJ: COVID-19 and long COVID</b> Joan B Soriano (Madrid, Spain)	4896
16:15	<b>The best of the ERJ: interstitial lung disease</b> Martin Kolb (Hamilton (ON), Canada)	4897
16:30	<b>Discussion and Q&amp;A</b> All Speakers	4898

## Coral 4+5

## Session 477

15:30 - 17:00

## Guidelines session: Palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease / The use of "as-needed" inhaled corticosteroids/formoterol in mild asthma

1) European Respiratory Society clinical practice guideline on palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease and 2) European Respiratory Society guideline on inhaled corticosteroids/formoterol on demand

**Aims :** to discuss two new published guidelines, namely, the European Respiratory Society (ERS) guideline on inhaled corticosteroids (ICS)/formoterol on demand and the ERS clinical practice guideline on palliative care for people with chronic obstructive pulmonary disease (COPD) or interstitial lung disease (ILD); to provide physicians, healthcare professionals, patients and other stakeholders information on the use of rescue ICS/formoterol for the treatment of adult and adolescent patients with mild asthma based on a systematic review of the literature and application of the Grading of Recommendations, Assessment, Development and Evaluation approach; to explain what palliative care entails for people with COPD or ILD and their informal caregivers and how to identify people with COPD or ILD who may benefit from palliative care; to describe a model to integrate palliative care in disease-modifying care for people with COPD or ILD; to discuss the clinical implications of both guidelines and barriers to their application in clinical practice.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Physician in Pulmonary Training

**Chairs :** Florence Schleich (Liège, Belgium), Charlotte Suppli Ulrik (Virum, Denmark)

15:30	<b>Guidance towards timely initiation of palliative care for people with COPD or ILD</b> Daisy J.A. Janssen (Horn, Netherlands)	4899
15:45	<b>Patient and caregiver's perspectives</b> Albert Devillers (, Belgium), Chantal van den Dungen (Juprelle, Belgium)	4900
15:50	<b>Palliative care for people with COPD or ILD: the perspective of the patient and informal caregiver</b> Alda Sofia Pires De Dias Marques (Aveiro, Portugal)	4901
16:05	<b>Discussion and Q&amp;A</b> All Speakers	4902

16:15	<b>Which is better, as-needed ICS/formoterol alone or regular low-dose ICS maintenance treatment?</b> Richard Beasley (Wellington, New Zealand)	4903
16:30	<b>Which is better, as-needed ICS/formoterol alone or as-needed SABA alone?</b> Ioana Agache (Brasov (Brasov), Romania)	4904
16:45	<b>Discussion and Q&amp;A</b> All Speakers	4905

### Coral 3 Session 478 15:30 - 17:00

#### Symposium: Treatment of early stage, technically resectable mesothelioma

**Aims :** to review different international guidelines on treatment of mesothelioma; to present inconsistencies in the current set of guidelines; to help delegates understand the use of these guidelines in optimal patient care.

**Tag(s) :** Clinical

**Chairs :** Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

15:30	<b>What is the early stage mesothelioma?</b> Lucian Chiriac (Boston, United States)	4906
15:45	<b>Radical surgery should be offered to patients with early stage, technically resectable mesothelioma</b> Nuria Novoa Valentin (Majadahonda, Spain)	4907
16:00	<b>Radical surgery should not be offered to patients with early stage, technically resectable mesothelioma</b> Najib M. Rahman (ABINGDON, United Kingdom)	4908
16:15	<b>A look into the future: active trials and research strategies for early-stage mesothelioma</b> Kevin Blyth (Glasgow (Glasgow), United Kingdom)	4909
16:30	<b>Discussion and Q&amp;A</b> All Speakers	4910

### Coral 1 Session 479 15:30 - 17:00

#### Symposium: Controversies on ground glass opacities of the lung

##### Ground glass opacities and lung cancer

**Aims :** to discuss lung ground glass opacity (GGO) and to emphasise the challenges that thoracic surgeons, physicians, pneumologists and thoracic oncologists are now facing and will face in future regarding GGOs after the COVID-19 pandemic.

**Disease(s) :** Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Public health Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)

15:30	<b>Is GGO a real entity ?</b> William Travis (New York, United States)	4911
15:45	<b>Ground glass opacities of the lung after the COVID-19 pandemic</b> Katarzyna Zanoska (Krakow, Poland)	4912
16:00	<b>Should GGO always be closely follow-up?</b> Pallavi Purwar (New Delhi, India)	4913
16:15	<b>Screening programme for lung cancer GGO</b> Ugo Pastorino (Milan, Italy)	4914
16:30	<b>Discussion and Q&amp;A</b> All Speakers	4915

### Coral 2 Session 480 15:30 - 17:00

#### Clinical cases: Lungs on fire: respiratory critical care/sleep and breathing disorders

**Aims** : to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s)** : Respiratory critical care Sleep and breathing disorders

**Tag(s)** : Clinical

**Chairs** : Dries Testelmans (Leuven, Belgium), Claudia Crimi (Catania (CT), Italy), Ignacio Martin-Loeches (Dublin, Ireland)

**Discussants** : Christoph Fisser (Regensburg, Germany), Marieke L. Duiverman (Groningen, Netherlands)

15:30	<b>Case 1 incl. panel discussion and Q&amp;A - Author: C. Tomsa (Italy)</b> Marieke L. Duiverman (Groningen, Netherlands)	4916
15:52	<b>Case 2 incl. panel discussion and Q&amp;A - Author: J. Riera Del Brio (Spain)</b> Christoph Fisser (Regensburg, Germany)	4917
16:14	<b>Case 3 incl. panel discussion and Q&amp;A - Author: R. Severin (United States of America)</b> Marieke L. Duiverman (Groningen, Netherlands)	4918
16:36	<b>Case 4 incl. panel discussion and Q&amp;A - Author: T. Said Ahmed (United States of America)</b> Christoph Fisser (Regensburg, Germany)	4919

## Purple Session 481 15:30 - 17:00

### Mini symposium: Next generation evidence-based decision-making in respiratory medicine ERS/Respiratory Effectiveness Group joint session

**Aims** : to explore the contribution of data from real-life research studies to decision-making processes including guidelines development; to emphasize the complementarity of real-life research and randomized controlled trials for the assessment of interventions; to discuss the yield of m-Health tools and the contribution and challenges of registries.

**Disease(s)** : Airway diseases Interstitial lung diseases Paediatric respiratory diseases

**Method(s)** : General respiratory patient care

**Tag(s)** : Clinical

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist

**Chairs** : Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia), Nicole Beydon (Paris, France)

15:30	<b>Real-world" evidence vs randomized controlled trials: friends or foes?</b> Giorgio Walter Canonica (Milano (MI), Italy)	4920
15:45	<b>The future of evidence generation using mHealth tools</b> Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)	4921
16:00	<b>Building registries to inform decision-making: potential and challenges</b> David Price (Singapore, Singapore)	4922
16:15	<b>Discussion and Q&amp;A</b> All Speakers	4923

## 15:30-16:15

### INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

## Red 1+2 Session 483 15:45 - 17:00

### Science slam: Science slam

**Aims** : Four scientists will present their research in an entertaining way for a non-specialist audience. The audience will elect, by means of electronic voting, the 2023 Science Slam winner.

**Tag(s)** : Translational

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Scientist (basic, translational), Paediatrician, Medical Student, General practitioner

**Chairs** : Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

15:45	<b>Introduction</b> Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)	4925
15:50	<b>Presentation 1</b> Jennifer Pollock (Dundee, United Kingdom)	4926
16:02	<b>Hypoxic burden: sleeping with the enemy</b> Lucia Pinilla (Lleida, Spain)	4927
16:14	<b>Pulmonary rehabilitation: a secret weapon against COPD flare-ups</b> Ana Filipa Machado (Senhora da Hora, Porto, Portugal)	4928
16:26	<b>The gut-lung odyssey: rise of the microbial force</b> Rashad Mohammad Mahbub (Sydney, Australia)	5447
16:38	<b>Vote, presentation and interview of the winner</b> Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)	5448

## Brown 3

## Session 484

15:45 - 17:00

## Oral presentation: Biomarker monitoring and severity classification in chronic obstructive pulmonary disease

Disease(s) : **Airway diseases**

Method(s) : Physiology Pulmonary function testing General respiratory patient care Imaging

Tag(s) : Clinical, Translational

Chairs : Fabio L. M. Ricciardolo (Torino, Italy), Maarten van den Berge (Groningen, Netherlands)

OA4929	<b>Late Breaking Abstract - ECG-derived risk factors for adverse cardiopulmonary outcomes in COPD patients: IMPACT post hoc analysis</b> Raymond Wade (Birmingham, United States), Fernando J. Martinez, Gerard J. Criner, Lee Tombs, David A. Lipson, Mark T. Dransfield
OA4930	<b>The impact of blood eosinophil levels on in-hospital mortality in a large cohort of 960 hospitalized AECOPD patients</b> Emine Sena Dikmentepe Yilmaz (Izmir, Turkey), Yelda Varol
OA4931	<b>Fibrinogen as a biomarker of cardiovascular risk in COPD</b> Mairi MacLeod (London, United Kingdom), Andrew Ritchie, Dexter Wiseman, Lydia Finney, Aaron Braddy-Green, Hassan Shahbakhti, Ralph Lopez, Jordina Mah, James P Allinson, Gavin C Donaldson, Jadwiga A Wedzicha
OA4932	<b>Do distinct phenotypes of heart failure coexisting with COPD influence endothelial function?</b> Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Viviane Castello-Simões, Cássia Da Luz Goulart, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nathany Souza Schafausser, Rodrigo Polaquini Simões, Meliza Goi Roscani, Audrey Borghi-Silva
OA4933	<b>Regional CT features for predicting rapid lung function decline in COPD</b> Kalysta Makimoto (Ajax, Canada), Meghan Koo, James Hogg, Jean Bourbeau, Wan Tan, Miranda Kirby
OA4934	<b>Expiration CT texture-based radiomics: a new biomarker for quantifying gas trapping in COPD</b> Meghan Koo (Markham, Canada), Ryan Au, Wan Tan, Jim Hogg, Jean Bourbeau, Miranda Kirby
OA4935	<b>Accuracy of the CAPTURE questionnaire for population-screening for COPD</b> Lancelot Pinto (Mumbai, India), Thakrar Dhara, Chawhan Ashwini
OA4936	<b>Long-term outcomes in patients with Pre-COPD or PRISm in NOVELTY</b> Eleni Rapsomaniki (Cambridge, United Kingdom), Rod Hughes, Barry Make, Ricardo Del Olmo, Alberto Papi, David Price, Laura Belton, Stefan Franzen, Jørgen Vestbo, Hana Müllerová, Alvar Agustí
OA4937	<b>FEV1/FVC severity stages for chronic obstructive pulmonary disease</b> Surya Bhatt (Birmingham, United States), Arie Nakhmani, Frank Scierba, Matthew Strand, Edwin Silverman, Sandeep Bodduluri
OA4939	<b>Discussion and Q&amp;A</b> All Speakers

## Blue 1+2

## Session 485

15:45 - 17:00

## Oral presentation: Lung structure and function across the lifespan



**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory critical care**Method(s)** : Imaging General respiratory patient care Physiology Cell and molecular biology Respiratory intensive care Pulmonary function testing Epidemiology Public health**Tag(s)** : Clinical**Chairs** : Rory Morty (Heidelberg, Germany), Anne Greenough (London, United Kingdom)

**OA4940** **Late Breaking Abstract - Differences in autophagy marker levels at birth in preterm vs. term infants**  
Noëmi Künstle (Basel, Switzerland), Olga Gorlanova, Andrea Marten, Loretta Müller, Pawan Sharma, Martin Rössli, Pablo Sinues, David Schürmann, Céline Rüttimann, Carla Rebeca Da Silva Sena, Uri Nahum, Jakob Usemann, Ruth Steinberg, Sophie Yammine, Sven Schulzke, Philipp Latzin, Urs Frey

**OA4941** **Late Breaking Abstract - Prenatal exposure to air pollution affects newborns' autophagy, senescence and remodelling proteins**  
Olga Gorlanova (Bättwil, Switzerland), Heide Oller, Uri Nahum, Noemi Künstle, Loretta Müller, Andrea Marten, Céline Rüttimann, Danielle Vienneau, Kees De Hoogh, David Schürmann, Carla Rebeca Da Silva Sena, Martin Rössli, Pablo Sinues, Sven Schulzke, Ruth Steinberg, Jakob Usemann, Pawan Sharma, Urs Frey

**OA4942** **Morphomolecular analysis of the capillary network in alveolar capillary dysplasia**  
Jan-Christopher Kamp (Hannover, Germany), Lavinia Neubert, Jonas C. Schupp, Christoph Wrede, Florian Laenger, Tobias Welte, Nicolaus Schwerk, Jakob Reichmann, Tim Salditt, Anke K. Bergmann, Sandra Von Hardenberg, Hans H. Kreipe, Karen M. Olsson, Jan Fuge, Da-Hee Park, Marius M. Hoepfer, Danny D. Jonigk, Lars Knudsen, Mark P. Kuehnel

**OA4943** **Bronchiolitis in infancy is associated with irreversible obstruction in early adulthood.**  
Sanna Saarikallio (Kangasala, Finland), Riikka Riikonen, Antti Tikkakoski, Eero Lauhkonen

**OA4944** **Acinar dysplasia in a full term newborn with a NKX2.1 variation**  
Yohan SOREZE (Paris, France), Nadia Nathan, Julien Jegard, Erik Hervieux, Pauline Clermidi, Chiara Sileo, Camille Louvrier, Marie Legendre, Aurore Coulomb L'Herminé

**OA4945** **A cigarette smoke exposure model using lung tissues to study emphysema**  
Venkataramana Sidhaye (Baltimore, United States), Ara Wally, Anuj Lagowala, Kai Wilmsen, Bonnie Yeung-Luk, Matthew Luk, Baishakhi Ghosh, Laine Feller, Ethan Tieng, Ethan Sherman, Nisha Upadaya, David Horsey, Vaishnavi Karanam

**OA4946** **The upper respiratory tract microbiota across the human lifespan: a nationwide Dutch population study.**  
Mari-Lee Odendaal (The Netherlands, Netherlands), Wouter De Steenhuijsen Piters, Eelco Franz, Lidwien Smit, Debby Bogaert, Thijs Bosch

**OA4947** **Transcriptomic analysis of the developing rabbit's lung: implication of premature birth and post-natal oxygen exposure**  
Matteo Storti (Parma, Italy), Barbara Montanini, Ilaria Minato, Nicola Casiraghi, Silvia Parolo, Enrico Domenici, Chiara Catozzi, Enrica Scalera, Giorgio Aquila, Francesca Stretti, Xabier Murgia, Francesca Ravanetti, Luisa Ragionieri, Roberta Ciccimarra, Matteo Zoboli, Gino Villetti, Maurizio Civelli, Francesca Ricci

**OA4948** **In neonatal  $\beta$ ENaC-transgenic mice CF-like lung disease causes a dilatation of the conducting airways which increases until adulthood**  
Sanja Blaskovic (Bern, Switzerland), Pinelopi Anagnostopoulou, Florian Kronig, Elena Borisova, Dominik Schittny, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampanoni, Johannes C. Schittny

**OA4949** **Maternal obesity increases reflex bronchoconstriction in adult offspring in a diverse outbred mouse model**  
Zhenying Nie (Portland, United States), Kayla Williams, Allison Fryer, David Jacoby, Alina Maloyan

**OA4950** **Discussion and Q&A**  
All Speakers

Brown 1+2

Session 486

15:45 - 17:00

**Oral presentation: Imaging lung function in respiratory diseases****Disease(s)** : Airway diseases Respiratory critical care Interstitial lung diseases**Method(s)** : Imaging Pulmonary function testing Respiratory intensive care Physiology Pulmonary rehabilitation**Tag(s)** : Clinical**Chairs** : Sam Bayat (Grenoble, France), Francesca Pennati (Milano (MI), Italy)

**OA4951** **Late Breaking Abstract - Systemic Determinants of Exercise Intolerance in Patients with Fibrosing Interstitial Lung Disease and a Severely Impaired DLCO**  
J. Alberto Neder (Kingston (ON), Canada), Reginald M. Smyth, Matthew D. James, Sandra G. Vincent, Kathryn M. Milne, Mathieu Marillier, Nicole J. Domnik, Christopher M. Parker, Juan P. De-Torres, Onofre Moran-Mendoza, Devin B. Phillips, Denis E. O'Donnell

- OA4952 Age, sex and lung volume dependence of 129Xe MRI gas exchange metrics**  
Guilhem Collier (Sheffield (South Yorkshire), United Kingdom), Laura Saunders, L J Smith, Kher Ng, James Grist, A J Swift, Helen Davies, Alexander Horsley, A A R Thompson, Emily Fraser, Fergus Gleeson, J M Wild
- 
- OA4953 Ventilation heterogeneity from X-ray Velocimetry predicts COPD severity**  
Sarath Raju (Baltimore, United States), Kyle Grealis, Ernesto Gonzalez, Kinjal Nakrani, Tamas Otvas, Jason Kirkness, Andreas Fouras, Robert Wise, Naresh Punjabi, Trishul Siddharthan
- 
- OA4954 Longitudinal change in lung physiology and 129Xe MRI over 1 year in patients with asthma and/or COPD**  
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Laurie Smith, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, David Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Olly Rodgers, Jimmy Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild
- 
- OA4955 Phenotypes of functional CT imaging predict clinical outcome in ARDS patients**  
Mehdi Shekarnabi (Villeurbanne, France), Florian Sigaud, Maxime Gaillet, Alicia Guillien, Emmanuel Roux, Touria Ahaouari, Edouardo Davila, Loic Bousel, Gilbert Ferretti, Hodane Yonis, Mehdi Mezidi, William Danjou, Alwin Bazzani, François Dhelft, Laure Folliet, Mehdi Girard, Valérie Siroux, Laurent Bitker, Nicolas Terzi, Maciej Orkisz, Jean-Christophe Richard, Sam Bayat
- 
- OA4956 Hyperpolarised helium MRI in direct and indirect asthmatic airway challenge**  
Chuan Tai Foo (Victoria, Australia), Kris Nilsen, Gary Cowin, Bruce Thompson, Francis Thien
- 
- OA4957 Fractal dimension analysis to assess ventilation heterogeneity associated with Long-COVID breathlessness**  
Minsuok Kim (Loughborough, United Kingdom), Jeongeun Hwang, James T. Grist, Gabriele Abueid, Soo Ho Yoon, Vincente Grau, Emily Fraser, Fergus V. Gleeson
- 
- OA4958 Ventilation biomarkers derived by micro-CT ( $\mu$ CT) quantify regional fibrosis progression and response to therapy in mouse**  
Francesca Pennati (Milano (MI), Italy), Erica Ferrini, Nicola Sverzellati, Davide Buseghin, Gino Villetti, Franco Fabio Stellari, Andrea Aliverti
- 
- OA4959 COVID-19 associated ARDS: quantitative CT study from acute phase to 1-year follow-up**  
Chiara Milano (Saronno, Italy), Bianca Corrò, Silvia Pagani, Stefania Raschi, Pierfranco Usai, Cristiano Bonacina, Roberta Cattaneo, Monica Bernareggi, Chiara Melacini, Serena Bencini, Martina Piluso, Francesca D'Arcangelo, Luca Parachini, Riccardo Ripamonti, Roberta Ciceri, Angela Brancaforte, Marcello Intotero, Paolo Scarpazza
- 
- OA4960 Chest CT scan Pulmonary sequelae in ICU COVID-19 survivors**  
Amani Kacem (Sousse, Tunisia), Haifa Sfar, Safa Ben Mansour, Yosri Ben Ali, Dhouha Ben Braiek, Hend Zorgati, Oussama Saadaoui, Rahma Ben Jazia, Anis Maatallah, Abderrahmen Daadoucha, Jihene Ayachi
- 
- OA4961 Discussion and Q&A**  
All Speakers

Yellow 1+2+3

Session 487

15:45 - 17:00

Oral presentation: New mechanisms and treatment strategies related to viral exposures

Disease(s) : [Airway diseases](#)

Method(s) : Cell and molecular biology Physiology

Tag(s) : Translational

Chairs : Anne M. van der Does (Leiden, Netherlands), Kristel Svalland Knudsen (Bergen, Norway)

- OA4962 Late Breaking Abstract - Age and vitamin D influence airway epithelial cells response to SARS-CoV-2 infection**  
Francesca Sposito (Liverpool, United Kingdom), Shaun Pennington, Christopher David, Jack Duggan, Sarah Northey, Giancarlo Biagini, Neill Liptrott, Amandine Charras, Paul Mcnamara, Christian Hedrich
- 
- OA4963 Slower clearance of human rhinovirus in aged airway epithelial cells differentiated at air liquid interface**  
Jonathan Baker (London, United Kingdom), Hugo Ombredane, Shyreen Hassibi, Kazuhiro Ito
- 
- OA4964 CC16 Induces Pulmonary Epithelial-Driven SPLUNC1 Expression by Signaling through VLA-2.**  
Julie Ledford (Tucson, United States), Natalie Iannuzo, Holly Welfley, Nicholas Li, Michael Johnson, Stefano Guerra, Xingnan Li, Darren Cusanovich, Paul Langlais
- 
- OA4965 Repetitive rhinovirus infection primes for amplified IL-13 induced airway epithelial responses**  
Huan Ma (Borstel, Germany), Dragingja Kovacevic, Holger Heine, Susanne Krauss-Etschmann

**OA4966 Clustering of bronchial epithelial immune response to a viral mimic identifies clinically recognizable viral exacerbation profiles.**  
Laurits Frøssing (Copenhagen V, Denmark), Juan-Jose Nieto-Fontarigo, Samuel Cerps, Sangeetha Ramu, Mandy Menzel, Morten Hvidtfeldt, Ditte K. Klein, Asger Sverrild, Linda Uller, Celeste Porsbjerg

**OA4967 Comparison of rhinovirus A16 and C15 induced transcriptomic profiles in airway epithelia**  
Ben Kam San Wong (Hong Kong, Hong Kong), Yan Wang, Joseph G S Tusn, Louisa L Y Chan, Renee WY Chan

**OA4968 Airway autoimmunity in asthma is associated with an aggravated inflammatory response to viral stimulation of the bronchial epithelium**  
Lise Lotte Eriksen (Copenhagen NV, Denmark), Samuel Cerps, Laurits Frøssing, Morten Hvidtfeldt, Ditte Klein, Mandy Menzel, Manali Mukherjee, Parameswaran Nair, Juan Jose Nieto-Fontarigo, Sangheeta Ramu, Alexander Silberbrandt, Ager Sverrild, Lena Uller, Celeste Porsbjerg

**OA4969 Pirfenidone, an alternative treatment for viral-induced exacerbations?**  
Julia Chitty (Berwick, Australia), Bruce Montgomery, Philip Bardin, Jane Bourke, Belinda Thomas

**OA4971 Discussion and Q&A**  
All Speakers

## PS-1 in poster area

## Session 489

16:00 - 17:30

## Poster session: Precision rehabilitation

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory critical care Sleep and breathing disorders Pulmonary vascular diseases

**Method(s) :** Pulmonary rehabilitation General respiratory patient care Public health Pulmonary function testing

**Tag(s) :** Clinical

**Chairs :** Beatriz Abascal Bolado (Santander, Spain), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

**PA4973 Development of an exercise adherence prediction model; a prospective cohort study**  
Ellen Ricke (Hillegom, Netherlands), Eric Bakker

**PA4974 Toward a personalized non-invasive ventilation support during exercise training in chronic obstructive pulmonary disease**  
Paulo Müller (Campo Grande (MS), Brazil), Tiago Augusto, Rodrigo Koch, Gisele Barbosa, Fernanda Dias, Erlandson Saraiva, Wolfram Windisch

**PA4975 Virtual pulmonary rehabilitation: Does one size fit all?**  
Oliver Smith (London, United Kingdom), Jennifer Kilduff, Eilinoir Davoren, Edoardo Castaneda, Daniel Bullock, Elisabetta Renzoni

**PA4976 The effectiveness of rehabilitation programs depending on the COPD risk group**  
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Galyna Korzh, Olga Molodovets, Nadiya Korzh, Uliana Shevchuk-Budz

**PA4977 Effect of adding motivational interventions to exercise training on health outcomes in patients with chronic respiratory diseases: a systematic review with meta-analysis**  
Adriana C. Lunardi (São Paulo (SP), Brazil), Cibele Marques Da Silva, Caroline Censo, Andrey Wirgues, Thiago Pinto, Eloise Arruda, Rafaella Xavier, Patricia Freitas, Celso Carvalho

**PA4978 The efficacy of remote pulmonary rehabilitation in the management of interstitial lung disease**  
Michael McGettrick (Glasgow (Glasgow), United Kingdom), Kirsty Murray, David Anderson

**PA4979 Prognostic implications of health-related quality of life in transthyretin amyloid cardiomyopathy**  
Christina Kronberger (Vienna, Austria), Michael Poledniczek, Robin Willixhofer, Nikita Ermolaev, Bernhard Cherouny, Theresa-Marie Dachs, René Retzl, Christina Binder-Rodriguez, Luciana Camuz-Ligios, Bernhard Gregshammer, Andreas Kammerlander, Johannes Kastner, Jutta Bergler-Klein, Franz Duca, Roza Badr Eslam

**PA4980 Six-minute Stepper Test to Set Pulmonary Rehabilitation Intensity in Patients with interstitial lung diseases**  
Clémence Roussel (Amiens, France), Tristan Bonnevie, Gaelle Tercé, Catherine Viacroze, Francis Edouard Gravier, Jean Sebastien Previnaire, David Debeaumont, Antoine Cuvelier, Jean Marie Grosbois, Elise Artaud Macari

**PA4981 Short- and longer-term effects of a digital behavioural modification intervention on physical activity outcomes in lung transplant recipients**  
Emily Hume (Newcastle Upon Tyne, United Kingdom), Hazel Muse, Kirstie Wallace, Mick Wilkinson, Karen Heslop Marshall, Arun Nair, Stephen Clark, Ioannis Vogiatzis

- PA4982 Predictors of success of pulmonary rehabilitation**  
Tomaz Hafner (Kranj, Slovenia), Anja Grošelj, Mitja Košnik, Julij Šelb, Anja Simonič, Tatjana Kosten, Tinkara Pirc Marolt, Peter Korošec
- 
- PA4983 Experiences of individuals with Idiopathic Pulmonary Fibrosis (IPF) participating in Home-Based Pulmonary Rehabilitation (HBPR) in India: A Qualitative study**  
Humaira Hanif (Noida, India), Obaidullah Ahmed, James Manifold, Mohd Shibli, Zahira Ahmed, Dominic Malcolm, Andy Barton, Deepak Talwar, Sally J Singh, Mark Orme
- 
- PA4984 Pulmonary rehabilitation is effective on exercise tolerance and mobility in frail ILD patients.**  
Didier Saey (Québec (QC), Canada), Pierre-François Tremblay-Labrecque, Geneviève Dion
- 
- PA4985 Interventions to promote conventional pulmonary rehabilitation uptake post-acute exacerbation of chronic obstructive pulmonary disease: A systematic review**  
Bedor Alkathlan (Leicester, United Kingdom), Munyra Alhoty, Neil Greening, Theresa Harvey-Dunstan, Sally Singh
- 
- PA4986 The Effects of Neurophysiological Facilitation Techniques on Respiration in Stroke Patients**  
Çiçek Gunday (Istanbul, Turkey), Ali Enes Yasar, Gul Deniz Yilmaz Yelvar, Yasemin Buran Cirak, Nurgul Durustkan Elbasi, Habibe Serap Inal
- 
- PA4987 Is Pulmonary Rehabilitation equitable across different populations?**  
Enya Daynes (Leicester, United Kingdom), Sarah Ward, Jakub Zakloutal, Linzy Houchen-Wolloff, Nikki Gardiner, Sally Singh
- 
- PA4988 Applying human factors to understand the needs of people living with COPD**  
Marta Lombardini (Parma, Italy), Nicola Scichilone, Iaria Milesi, Francesco Bianchi, Giulia Marengi, Chris White, Andrew Whittamore
- 
- PA4989 Pulmonary rehabilitation in Systemic sclerosis.**  
Sara Ramponi (Cingia de' Botti (CR), Italy), Maurizio Marvisi, Alberto Baiguera, Andrea Romani, Silvia Faverzani, Chiara Mancini, Laura Bazlarini
- 
- PA4990 Characteristics of pulmonary rehabilitation programmes and their effects on exercise capacity and quality of life in patients with interstitial lung diseases: a systematic review and meta-analysis**  
Jaime Ricardo Jimenez Salazar (Edinburgh, United Kingdom), Fatim Tahirah, Nazim Uzzaman, Ranita Hisham, Nik Zawani, Hilary Pinnock, Nikhil Hirani, Roberto Rabinovich
- 
- PA4991 Challenges in screening for COPD and recruiting to community-based pulmonary rehabilitation (PR) in an economically deprived area of Jodhpur, India.**  
Mahendra Thakor (Jodhpur, India), Vishal Singh, Pankaj Bhardwaj, Nishant Kumar Chauhan, Mark Orme, James Manifold, Amy Barradell, Zahira Ahmed, Andy Barton, Arun Kumar Sharma, Sally Singh
- 
- PA4992 Needs assessment for introducing Pulmonary Rehabilitation for Chronic Obstructive Pulmonary Disease management in a rural Indian setting: a qualitative study**  
Dhiraj Agarwal (Pune (Maharashtra), India), Diksha Singh, Harshpreet Kaur, Sudipto Roy, Sanjay Juvekar, Hilary Pinnock
- 
- PS-10 in poster area** **Session 490** **16:00 - 17:30**
- Poster session: Cystic fibrosis: disease monitoring, biomarkers, and psychosocial issues**
- Disease(s) :** **Airway diseases** **Interstitial lung diseases**
- Method(s) :** Imaging Pulmonary function testing Epidemiology Cell and molecular biology Pulmonary rehabilitation Public health General respiratory patient care Physiology
- Tag(s) :** Clinical
- Chairs :** Mirjam Stahl (Berlin, Germany), Elpis Hatziaorou (Panorama, Thessaloniki, Greece)
- 
- PA4993 Lateral decubitus CT: an alternative technique to monitor structural lung disease in preschool children with cystic fibrosis**  
Yuxin Chen (Rotterdam, Netherlands), Rikke Mulvad Sandvik, Lotte Borgwardt, Pierluigi Ciet, Kim Gjerum Nielsen, Harm A. W. M. Tiddens
- 
- PA4994 Correlation of lung function using forced oscillation technique with spirometry in children with cystic fibrosis (CF)**  
Sachin Singh (Rajkot, Gujarat, India), Meenu Singh, Joseph Mathew
- 
- PA4995 Role of nursing in the detection of allelic variants of the gene alpha-1-antitrypsin in patients with cystic fibrosis.**  
Rocio Reinoso Arija (Sevilla, Spain), Pedro Francisco Garcia Tamayo, Maria Rosario Ruiz-Serrano De La Espada, Maria Dolores Nuñez Ollero, David Chacon Cadiz, Maria Dolores Ucero Leon, Jorge Cabrera Guerrero, Candido Fernandez Garcia, Carmen Sanchez De La Puerta Laguna, Isabel Delgado Pecellin, Maria Esther Quintana Gallego, Laura Carrasco Hernandez, Jose Luis Lopez-Campos Bodineau

- PA4996** **SPLUNC1 in sputum of children with cystic fibrosis pulmonary exacerbations**  
Elad Ben-Meir (Shoham, Israel), Lucy Perrem, Felix Ratjen, Hartmut Grasemann
- 
- PA4997** **Physical activity, six-minute-walking test, and quality of life in people with cystic fibrosis**  
Elpis Hatziagorou (Panorama, Thessaloniki, Greece), John Koussis, Elisavet-Anna Chrysochoou, Evangelia Kouidi, John Tsanakas
- 
- PA4998** **Project Fizzyo: Identification of optimal pressure-length breath profiles for airway clearance techniques in children with cystic fibrosis**  
Nicole Filipow (London, United Kingdom), Emma Raywood, Sanja Stanojevic, Gwyneth Davies, Helen Douglas, Harriet Shannon, Nicky Murray, Rachel O'Connor, Eleanor Main
- 
- PA4999** **Parental socioeconomic status and lung function in offspring with cystic fibrosis in Sweden- a register-based cohort study**  
Emma Caffrey Osvald (Stockholm, Sweden), Cecilia Lundholm, Samuel Arthur Rhedin, Awad I Smew, Bronwyn K Brew, Isabelle De Monestrol, Catarina Almqvist
- 
- PA5001** **Respiratory microbiota profiles are associated with respiratory health in infants with cystic fibrosis**  
Ruth Steinberg (Bern, Switzerland), Philipp Latzin, Markus Hilty, Kathryn Ramsey, Marc Alexander Oestreich, Bettina Frauchiger, Elisabeth Kieninger, Insa Korten, Bild Bild Study Group, Scild Scild Study Group
- 
- PA5002** **Microbiological status predicts lung function decline in cystic fibrosis**  
Elpis Hatziagorou (Panorama, Thessaloniki, Greece), Marina Kotzamani, Persefoni Talimtzis, Maria Tsolia, Elissavet-Anna Chrysochoou
- 
- PA5003** **Exploring the attitudes and knowledge of the caregivers of children with cystic fibrosis and primary ciliary dyskinesia regarding COVID-19 vaccination**  
Pinar Ergenekon (Istanbul, Turkey), Cansu Yilmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Merve Selcuk, Seyda Karabulut, Neval Metin Cakar, Ela Erdem Eralp, Yasemin Gokdemir, Bulent Karadag
- 
- PA5004** **Airway colonisation with *Aspergillus fumigatus* and its impact on the CF microbiota**  
Deepa Patel (Leicester, United Kingdom), Paul Seear, Catherine Pashley, Erol Gaillard
- 
- PA5005** **Comparison of the corrected N2-lung clearance index with SF6-lung clearance index and magnetic resonance imaging**  
Eva Steinke (Berlin, Germany), Mark O. Wielpütz, Cornelia Joachim, Marcus A. Mall, Mirjam Stahl
- 
- PA5006** **Airway infections as risk factors for *Pseudomonas aeruginosa* acquisition and chronic colonisation in children with cystic fibrosis**  
Harriet Corvol (Paris, France), Julie Mesinele, Manon Ruffin, Loic Guillot, Pierre-Yves Boelle
- 
- PA5007** **Identifying Knowledge Gaps by Using Adapted CF R.I.S.E in a Low Resource Setting**  
Merve Selcuk (Istanbul, Turkey), Yasemin Gokdemir, Ela Erdem Eralp, Almala Pinar Ergenekon, Cansu Yilmaz Yegit, Muruvvet Cenk Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Ozge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag
- 
- PA5008** **Transition Program as a Quality Improvement Project: Adaptation of the CF R.I.S.E. in a center with Limited Resources**  
Yasemin Gokdemir (Istanbul, Turkey), Merve Selcuk, Ela Erdem Eralp, Almala Pinar Ergenekon, Cansu Yilmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Ozge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag
- 
- PA5009** **Classification of cystic fibrosis (CF) lung disease patterns based on CT texture analysis and machine learning**  
Francesca Pennati (Milano (MI), Italy), Pietro Quadri, Irene Borzani, Maria Chiara Russo, Valeria Daccò, Gianpaolo Carrafiello, Carla Colombo, Andrea Aliverti
- 
- PA5010** **Respiratory rate from pulse oximetry during cystic fibrosis exacerbations**  
David Wertheim (Kingston-upon-Thames, United Kingdom), Catherine Olden, Claire Edmondson, Jane C Davies, Paul Seddon
- 
- PA5011** **Evaluation of Alexitimia Level in Cystic Fibrosis Patients**  
Aslı İmran Yılmaz (konya, Turkey), FATİH ERCAN, Semih Erden, Nail Bilgitay, Sevgi Pekcan, Gökçen Ünal, Hanife Tuğçe Çağlar

**Evaluation of respiratory function at 6 years of age in patients with cystic fibrosis with frequent pulmonary exacerbations in the first 2 years of life**

PA5012 sati ozkan tabakci (Ankara, Turkey), Güzin Cinel, Salih Uytun, Sanem Eryılmaz Polat, Ebru Yalçın, Nural Kiper, Meltem Akgül Erdal, Velat Şen, Suat Savaş, Özcan Çelebi, Derya Ufuk Altıntaş, Mahir Serbes, Ayşe Ayzıt Kılınc, Haluk Çokuğraş, Hüseyin Arslan, Hakan Yazan, Hale Molla Kafi, Abdülhamit Çollak, Gökçen Ünal, Aslı İmran Yılmaz, Hanife Tuğçe Çağlar, İlim İrmak, Ebru Damadoğlu, Gökçen Kartal Öztürk, Esen Demir, Erdem Başaran, Ayşen Bingöl, Yakup Cantez, Şükrü Çekiç, Pelin Asfuroğlu, Ayşe Tana Aslan, Koray Harmancı, Gonca Kılıç, Mehmet Köse, Ali Ersoy, Melih Hangül, Ali Özdemir, Gizem Özcan, Nazan Çobanoğlu, Zeynep Gökçe Gayretli Aydın, Özlem Keskin, Hasan Yüksel, Şebnem Özdoğan, Erdem Topal, Gönül Çaltepe, Demet Can, Pervin Korkmaz Ekren, Mehmet Kılıç, Tuğba Şişmanlar Eyüboğlu, Sevgi Pecan, Erkan Çakır, Nagehan Emiralioğlu, Uğur Özçelik, Deniz Doğru Ersöz

PS-11 in poster area

Session 491

16:00 - 17:30

**Poster session: Asthma, atopy, and respiratory outcomes from infancy to young adulthood**Disease(s) : **Airway diseases**

Method(s) : Epidemiology Public health General respiratory patient care Physiology Pulmonary function testing Imaging

Tag(s) : Clinical

Chairs : Franca Rusconi (Pisa, Italy), Eva Sophie Lunde Pedersen (Bern, Switzerland)

**PA5013 Endotyping and risk-assessing childhood asthma using national registries**

Kjell Erik Julius Håkansson (København N, Denmark), Silvia Cabrera Guerrero, Vibeke Backer, Charlotte Suppli Ulrik, Deepa Rastogi

**PA5014 Association of multiple factors with childhood asthma and allergic diseases: a latent class analysis**

Teresa To (Toronto (ON), Canada), Cornelia M. Borkhoff, Laura N. Anderson, Catherine Birken, Sharon D. Dell, Magdalena Janus, Jonathon L. Maguire, Theo J. Moraes, Patricia C. Parkin, Padmaja Subbarao, Anne Van Dam, Beverly Guttman, Emilie Terebessy, Kimball Zhang, Jingqin Zhu

**PA5015 Maternal dietary inflammatory potential and allergic and respiratory multimorbidity in children**

Rosalie Delvert (Villejuif, France), Manel Ghosal, Marie-Aline Charles, Isabella Annesi-Maesano, Chantal Raheison-Semjen, Raphaëlle Varraso, Blandine De Lauzon-Guillain, Annabelle Bédard

**PA5016 Persistence of wheeze in a clinical cohort depends on trigger factors**

Tayisiya Krasnova (Kyiv, Ukraine), Amanda Gisler, Sylvain Blanchon, Nicolas Regamey, Eva S L Pedersen, Claudia E Kuehni

**PA5017 Dust microbiota profiles in daycare and risk of wheezing in early childhood**

Annabelle Bédard (Paris, France), Isabelle Lacaze, Flore Amat, Pierre Bonnet, Anastasie Eworo Nchama, Carlos A Camargo Jr, Kohei Hasegawa, Rachel Nadif, Valérie Siroux, Raphaëlle Varraso, Corinne Mandin, Nicole Le Moual, Orianne Dumas

**PA5019 The impact of COVID-19 lockdown measures on asthma symptom control in children: a systematic review and meta-analysis of observational cohort studies.**

Panayiotis Kouis (Nicosia, Cyprus), Marios Lemonaris, Eleana Xenophontos, Andrie G. Panayiotou, Panayiotis K. Yiallourous

**PA5020 Impact of COVID-19 on Childhood Asthma and Wheezing Disorders: Rebound Risk for Rhinovirus Infections**

Yuhan Xing (Hong Kong, Hong Kong), Ka-Sheung Yip, Edmund Chung-Ming Yung, Agnes Sze-Yin Leung, Ting-Fan Leung, Gary Wing-Kin Wong

**PA5021 COVID-19 vaccinations and adverse outcomes among youth and young adults with asthma and allergic diseases**

Kimball Zhang (Toronto, Canada), Emilie Terebessy, Jingqin Zhu, Catherine Birken, Cornelia Borkhoff, Andrea Gershon, Theo Moraes, Tetyana Kendzerska, Smita Pakhale, Teresa To

**PA5022 A revolving door?: continuity of care among children with asthma after discharge from a children's hospital in Ontario, Canada**

Kimball Zhang (Toronto, Canada), Emilie Terebessy, Jingqin Zhu, Teresa To

**PA5023 Association of infant tidal breathing with later lung function in preterm individuals**

Yasmin Salem (Bern, Switzerland), C. Corin Willers, Anne-Christianne Kentgens, Julian Jakob, Florian Wyler, Urs Frey, Philipp Latzin, Sophie Yammine

**PA5024 Diagnosis in children with prolonged or recurrent cough**

Maria Christina Mallet (Bern, Switzerland), Annina Elmiger, Tayisiya Krasnova, Carmen De Jong, Barbara Kern, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Jakob Usemann, Eva S L Pedersen, Claudia E Kuehni

**PA5025 Lung function in young adulthood in relation to moderate-to-late preterm birth**

Björn Lundberg (Stockholm, Sweden), Simon Kebede Merid, Petra Um-Bergström, Gang Wang, Anna Bergström, Sandra Ekström, Inger Kull, Erik Melén, Jenny Hallberg

- PA5026** **Antibiotics in pregnancy influence nasal microbiome and respiratory morbidity in infancy**  
Céline Rüttimann (Basel, Switzerland), Annika Nissen-Kratzert, Nadja Mostacci, Noëmi Künstle, Andrea Marten, Amanda Gisler, Katharina Bracher, Insa Korten, Sophie Yammine, Ruth Steinberg, Sven Schulzke, Philipp Latzin, Markus Hilty, Urs Frey, Olga Gorlanova
- PA5027** **Clinical implications of dysanaptic obstruction during childhood and adolescence**  
Hans Jacob Koefoed (Groningen, Netherlands), Gang Wang, Ulrike Gehring, Sandra Ekström, Inger Kull, Anna Bergström, Gerard H. Koppelman, Erik Melén, Judith M. Vonk, Jenny Hallberg
- PA5028** **Exploratory analyses of inflammatory plasma proteins and post-exercise airway responses in randomly selected adolescents**  
Karin Ersson (Uppsala, Sweden), Kjell Alving, Christer Janson, Henrik Johansson, Andrei Malinovski
- PA5029** **A retrospective study of perinatal respiratory outcomes in pregnancy with Diabetes Mellitus**  
Then Moli Othayamoorthy (Segambut, Wilayah Persekutuan Kuala Lumpur, Malaysia), Asiah Kassim, Then Moli Othayamoorthy, Nur Izyani Abdul Halim, Fatimah Az Zaharah Suhaimi, Ching Hai Lee, Ker Yang Chua, Udhaya Moorthy, Karuthan Chinna
- PA5030** **Comorbidity of allergic diseases and type 1 diabetes – using genetically informative methods**  
Awad I. Smew (Stockholm, Sweden), Tong Gong, Ralf Kuja-Halkola, Lars Säwendahl, Paul Lichtenstein, Bronwyn K. Brew, Catarina Almqvist
- PA5031** **Pulmonary evaluation of children with respiratory symptoms and post-COVID-19 condition**  
Einat Shmueli (Hod Hasharon, Israel), Ophir Bar-On, Meir Mei-Zahav, Patrick Stafler, Hagit Levine, Guy Steuer, Ben Amir, Gabriel Chodick, Dario Prais, Liat Ashkenazi-Hoffnung
- PA5032** **Frequency of common respiratory infections in children before and during the COVID-19 pandemic**  
Ronny Makhoul (Bern, Switzerland), Cristina Ardura, Eva S L Pedersen, Nicolas Regamey, Claudia E Kuehni

PS-12 in poster area

Session 492

16:00 - 17:30

Poster session: Airway clearance, physical activity and exercise in children and adults with respiratory disorders

Disease(s) : Pulmonary vascular diseases Respiratory critical care Airway diseases Interstitial lung diseases Sleep and breathing disorders

Method(s) : General respiratory patient care Physiology Pulmonary rehabilitation Imaging Public health Pulmonary function testing Epidemiology Respiratory intensive care

Tag(s) : Clinical

Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany), Naciye Vardar Yağlı (Ankara, Turkey)

- PA5033** **Is it possible to evaluate the relationship between strength and respiratory muscle performance with motor performance in premature newborns in the neonatal period?**  
Evelim Gomes (São Paulo (SP), Brazil), Debora Anjos, Carolina Camargo, Etienne Carvalho, Dirceu Costa, Eneida Suda
- PA5034** **Evaluating physiotherapy interventions for infants with bronchiolitis – a survey study**  
Sonja Andersson Marforio (Hjärup, Sweden), Annika Lundkvist Josenby
- PA5036** **Peripheral muscle mass and motor performance is there a relationship in the neonatal period in premature newborns?**  
Camargo Carolina (São Paulo, Brazil), Debora Anjos, Etienne Carvalho, Eneida Suda, Dirceu Costa, Evelim Gomes
- PA5037** **Respiratory symptoms and access to physiotherapy in children with cerebral palsy in Albania**  
Malvina Hoxha (Tirana, Albania), Visar Malaj, Emanuela Prendi, Bruno Zappacosta
- PA5038** **The effect of a mechanical insufflation exsufflation titration protocol on delivered settings in patients with neuromuscular disease.**  
Sophie Madden-Scott (London, United Kingdom), Neeraj Shah, Karthhika Jeyakumar, Laura Weatherley, Lauren Joyce, Georgios Kaltsakas, Nicholas Hart, Patrick Murphy, Leyla Osman
- PA5039** **Assessing personalised airway clearance techniques in Primary Ciliary Dyskinesia with 129Xe ventilation MRI**  
Lynne Schofield (Leeds, United Kingdom), Laurie Smith, Alberto Biancadi, Evie Robson, Helen Marshall, David Capener, Jody Bray, Leanne Armstrong, Jen Rodgers, Ryan Munro, Graham Norquay, Oliver Rodgers, Shagufta Fazal, Anna Zalewska, Susanne Shanks, David Hughes, Daniel Hind, Sally Singh, Eduardo Moya, Noreen West, Jim Wild
- PA5040** **Evaluating the effects of MetaNeb® compared to usual airway clearance techniques during exacerbations of cystic fibrosis: A randomised controlled trial**  
Naomi Chapman (Kewdale, Australia), Vinicius Cavalheri, Elizabeth Smith, Jamie Wood, Angela Jacques, Anna Tai, Siobhain Mulrennan, Kylie Hill

- PA5041** **Feasibility and safety evaluation of a novel airway clearance system in patients with bronchiectasis**  
Moshe Ashkenazi (ramat gan, Israel), Nir Helfer, Gil Sokol, Adi Dagan, Ori Efrati
- PA5042** **Clinical application of intrapulmonary percussive ventilation: a systematic scoping review**  
Anwar Hassan (Glenmore Park, Australia), Sidney Takacs, Sam Orde, Stephen Huang, Jennifer Alison, Maree Milross
- PA5043** **What Are The Factors Affecting Respiratory Muscle Functions in Idiopathic Pulmonary Fibrosis?:A Preliminary Study**  
Özge Ertan Harputlu (İstanbul, Turkey), Zeynal Yasacı, Tugce Tahmaz, Goksen Kuran Aslan, Esen Kıyan, Gulfer Okumus
- PA5044** **Relationship between anaerobic power and exercise capacity in cystic fibrosis with impaired glucose tolerance**  
Deniz Inal-Ince (Ankara, Turkey), Elif Kocaaga, Dilber Ademhan-Tural, Cemile Bozdemir-Ozel, Ebru Calik-Kutukcu, Naciye Vardar-Yagli, Melda Saglam, Deniz Dogru, Ayfer Alikasifoglu, Nagehan Emiralioglu
- PA5045** **Exercise capacity, inflammation, hemodynamic and macrovascular function in children with CF in different genders**  
Senem Simsek (Ankara, Turkey), Aslihan Cakmak, Meltem Akgul-Erdal, Yasemin Kartal, Murat Timur Budak, Suna Sabuncuoglu, Nagehan Emiralioglu, Elmas Ebru Gunes-Yalcin, Deniz Inal-Ince
- PA5046** **Impaired muscle oxygenation, exercise capacity, and activities of daily living in primary ciliary dyskinesia with inspiratory muscle weakness**  
Hazal Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Aslihan Cakmak, Naciye Vardar Yagli, Melda Saglam, Ebru Calik Kutukcu, Ugur Ozcelik
- PA5047** **Inspiratory muscle strength is an independent predictor for six-minute walk distance in primary ciliary dyskinesia**  
Hazal Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Aslihan Cakmak, Melda Saglam, Naciye Vardar Yagli, Ebru Calik Kutukcu, Ugur Ozcelik
- PA5048** **Determinants of daily steps in people with interstitial lung disease**  
Ana Sofia Brites Grave (Alcobaça, Portugal), Cátia Paixão, Joana Antão, Francisca Teixeira Lopes, Vânia Fernandes, Maria Aurora Mendes, António Mesquita Montes, Alda Marques
- PA5049** **Daily activities prioritised by people with interstitial lung disease**  
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Raquel Marinho, Cátia Paixão, Luís Lázaro, M Aurora Mendes, Sérgio Campainha, J. Joaquim Alvarelhão
- PA5050** **Efficacy of respiratory physiotherapy in the management of infectious pleural effusion (IPE): a randomized clinical trial**  
Julia Tarrega Camarasa (Granollers, Spain), Inmaculada Castillo, Enric Barbeta
- PA5051** **Physiotherapy management of adults with bronchiectasis. Service evaluation from a UK tertiary hospital.**  
Gemma Louise Korff (London, United Kingdom), Massimiliano Puddu, Yvonne Rumble, Arietta Spinou
- PA5052** **Late Breaking Abstract - Effects of a symptom-based rehabilitation on cardiopulmonary exercise capacity in post COVID-19: A preliminary subgroup analysis of the ReLoAd cohort**  
Daniela Leitl (Schönau a. Königssee, Germany), Tessa Schneeberger, Inga Jarosch, Rainer Gloeckl, Sandra Winterkamp, Andreas Rembert Koczulla

## PS-13 in poster area

## Session 493

16:00 - 17:30

## Poster session: Cardiopulmonary exercise testing and pulmonary function assessment in pathology and COVID-19

Disease(s) : **Airway diseases** **Sleep and breathing disorders** **Pulmonary vascular diseases** **Interstitial lung diseases**

Method(s) : Physiology Pulmonary function testing Imaging Pulmonary rehabilitation Surgery Endoscopy and interventional pulmonology Epidemiology General respiratory patient care Public health

Tag(s) : Clinical

Chairs : Justine Van den Hengel (Leusden, Netherlands), Bryn Williams (Bedfordshire, United Kingdom)

- PA5053** **Evaluation of pulmonary function impairment in post-COVID patients: a single-center experience follow-up**  
Noemi Suppini (Timisoara (Timis), Romania), Cristian Oancea, Daniel Traila, Diana Luminita Manolescu, Alexandru Catalin Motofelea, Alina Maran, Corina Maria Mocan, Ovidiu Fira-Mladinescu
- PA5055** **Is there correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in COVID-19 survivors?**  
Balsam Barkous (ARIANA, Tunisia), Soumaya Khaldi, Khoulood Kchaou, Chaima Briki, Sirine Jamli, Saloua Ben Khamsa Jameleddine
- PA5056** **Does diffusion ability of lungs return to normal after COVID-19?**  
Nataliia Habshydzhe (Dnipro, Ukraine), Mariia Krykhtina, Liudmyla Konopkina, Tetyana Pertseva, Larysa Botvinikova



- PA5057 Comparison of severity of Covid infection in staff before and after vaccination.**  
Bhumika Madhav (Navi Mumbai (Maharashtra), India), Jayalakshmi T.Kutty, Prakash Cherath, Narendra Patil, Prashant Khemani, Vibhasree A V, Gokul Bhate
- PA5058 Increased impairment of cardiopulmonary exercise by bilateral diaphragm dysfunction as compared to unilateral diaphragm dysfunction.**  
Patrick Jak (Diemen, Netherlands), Bart Boerrigter
- PA5059 Predictive value of CPET in identifying patients with chronic thromboembolic pulmonary hypertension (CTEPH).**  
Vicky moore (Coventry, United Kingdom), Joanna Shakespeare, Jason Burge, Sarah Shuker, David G Parr
- PA5060 Determination of the anaerobic threshold**  
Esther de Geus (Den Haag, Netherlands), Mart Van Der Plas
- PA5061 Comparative retrospective data research from normal values of VO2max in CPET with patient data in Meander Medisch Centrum, The Netherlands.**  
Justine Van den Hengel (Leusden, Netherlands), Anne Van As - Janssen
- PA5062 Can iso-time heart rate (ITHR) be used as an objective marker for demonstrating a positive improvement with ambulatory oxygen, using a pre-established blinded treadmill protocol?**  
Sara McArthur (Edinburgh (Edinburgh), United Kingdom), Shaun Baxter, Kristofor Cuthbert, Jill Macleod
- PA5063 The association of isolated small airways obstruction with cardiorespiratory fitness: A hospital-based study**  
Ben Knox-Brown (NEWMARKET, United Kingdom), Karl Sylvester, Andre Amaral
- PA5064 Validation of a treadmill protocol for cardiopulmonary exercise testing (CPET) in patients with COPD**  
Ann-Iren Holstad (Jessheim, Norway), Anita Grongstad, Christine Gudim Karlsen, Trine Stensrud, Anne Helene Edvardsen
- PA5065 Utility of CPET for the investigation of persistent breathlessness in post PE patients**  
Vicky moore (Coventry, United Kingdom), Joanna Shakespeare, Sarah Shuker, Jason Burge, David G. Parr
- PA5066 Does pectus excavatum repair improve exercise responses? A comparison of cardiopulmonary exercise testing variables following surgical intervention.**  
Ian Cliff (Stoke-on-Trent, United Kingdom), Helen Stone, Naveed Mustfa, Christopher Satur
- PA5067 Biologic or mechanic quality control for cardiopulmonary exercise testing (CPET).**  
Manon Broekhuijsen - Godding (Lanaken, Belgium), Sami Simons
- PA5068 Determinants of respiratory function during inpatient rehabilitation after spinal cord injury**  
David Berlowitz (Melbourne (VIC), Australia), Gabi Mueller, David Gobets, Burkhard Huber, Xavier Jordan, Karin Postma, Anja Raab, Martin Schubert, Martin Brinkhof
- PA5069 Impact of mechanical ventilation on body composition in post-COVID: a cross-sectional study**  
Alvaro Montañez (Mexico City, Mexico), Mildred Corina de la Concha Duarte, Dulce González Islas, Arturo Orea Tejada, Luz Jiménez Gallardo, Arturo Rodríguez Medina, Priscila Dibnora De La Concha Duarte, Juan Antonio Ramírez Maldonado, Guiedani Galván Bautista, Nadia Hernández López, Rocío Sánchez Santillán, Ilse Pérez García, Angelia Jiménez Valentín
- PA5070 Utility of neurophysiological studies in the diagnosis of diaphragmatic paralysis as a cause of dyspnea. Experience in a Spanish hospital.**  
Ignacio Garrapiz (Huesca, Spain), María Jesús Pablo, Isabel Benavente, Jorge Hurtado, Javier Garrapiz, Joaquín Cegoñino, Sandra García, Elena Briz, Luis Borderias Clau
- PA5071 Cardiopulmonary exercise testing (CPET) in post COVID-19 exercise intolerance evaluation**  
Joana Da Silva Cruz Gameiro Duarte (Oeiras, Portugal), Rita Enriquez, Susana Clemente, Sílvia Rodrigues, Liliana Gomes, Jorge Rosa, Inês Claro, Filipa Todo Bom
- PA5072 Late Breaking Abstract - Replication and validation of a rebreathing experiment to investigate post-COVID symptoms**  
Daniel Schaefer (Geretsried, Germany), Rudolf Jörres, Dennis Nowak, Omer Van Den Bergh, Katleen Bogaerts, Stefan Glasauer, Nadine Lehnen, Dina Von Werden

PS-14 in poster area

Session 494

16:00 - 17:30

Poster session: Clinical features and advances in the management of tuberculosis

Disease(s) : Airway diseases Pulmonary vascular diseases

Method(s) : General respiratory patient care Epidemiology Public health Imaging Cell and molecular biology Endoscopy and interventional pulmonology Pulmonary function testing

Tag(s) : Clinical

**Chairs :** Inês Tavares Ladeira (Vila Nova de Gaia, Portugal), Ayşegül Fusun Öner Eyüboğlu (Ankara, Turkey)

<b>PA5092</b>	<b>Late Breaking Abstract - Drug-resistant tuberculosis: pilot whole genome sequencing of clinical isolates M.tuberculosis from TB patients in Kazakhstan</b> Ulan Kozhamkulov (Astana, Kazakhstan), Asset Daniyarov, Ainur Akhmetova, Saule Rakhimova, Zhannur Abilova, Ainur Akilzhanova
<b>PA5073</b>	<b>Renal amyloidosis in a patient with pulmonary tuberculosis</b> Sabarinath Ravichandar (Chennai , India)
<b>PA5074</b>	<b>Clinico-microbiological profile and treatment outcomes in patients with isoniazid monoresistant tuberculosis in South India</b> Venkata Prasanna M (puducherry, India), Muthuraj M, Vimal Raj R, Govindarajan S, Pajanivel R
<b>PA5075</b>	<b>The modifying effect of comorbidity on the detection and treatment outcomes of tuberculosis</b> Iryna Makoida (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Kostitska, Olha Molodovets, Olha Melnuk-Sheremeta, Oleksandr Varunkiv, Iryna Savelikhina, Alla Zuban, Nadiia Korzh, Uliana Shevchuk-Budz
<b>PA5076</b>	<b>Association of systemic inflammatory markers with anti-tuberculous drug-induced liver injury</b> quanxian Liu (Chengdu, China), Jianqing He
<b>PA5077</b>	<b>Clinical and prognostic characterisation of Mycobacterium avium infection - a retrospective analysis</b> Adriana Sofia Correia Dias (Braga, Portugal), Diogo Miguel Monteiro Canhoto, Ferreira António Jorge
<b>PA5078</b>	<b>Rasmussen Aneurysm: a rare fearful complication of pulmonary tuberculosis</b> mohamed karim darragi (Ariana, Tunisia), Sarra Maazaoui, Chirine Moussa, Amany Touil, Sonia Hbibeche, Soumaya Ben Saad, Hajer Racil, Fatma Tritar, Sonia Maalej, Nawel Chaouech
<b>PA5079</b>	<b>Atypical presentations and challenges in the upper respiratory tract tuberculosis</b> kharrat rania (sfax, Tunisia), Kallel Souha, Hammami Rim, Selem Noura, Bahloul Najla, Elleuch Ahmed Dhiaa, Chaabouni Mohamed Amine, Kammoun Sami, Charfeddine Ilhem
<b>PA5080</b>	<b>Clinical characteristics of different subspecies in patients with Mycobacterium intracellulare pulmonary disease</b> CHIE MORITA (Tokyo, Japan), Eriko Morino, Yusaku Kusaba, Ayako Shiozawa, Jin Takasaki, Masayuki Hojo, Haruhito Sugiyama, Mitsunori Yoshida, Hanako Fukano, Yoshihiko Hoshino
<b>PA5081</b>	<b>Spinal tuberculosis treated at an East London Hospital</b> Akhilesh Sharma (Chelmsford, United Kingdom), Erik Skyllberg, Rebekah Young, Sinead Foley, Mollie Ward, Laura Gill, Simon Tiberi, Veronica White, Heinke Kunst
<b>PA5082</b>	<b>Endobronchial tuberculosis : a rare presentation</b> Salma Msika (casablanca, Morocco), Wiam El Khattabi, Meriem Zadi, Hajer Arfaoui, Hasna Jabri, Hicham Afif
<b>PA5083</b>	<b>The effect of Covid-19 pandemic on childhood tuberculosis:A Retrospective sectional study</b> Gülay Bas Bilgin (İstanbul, Turkey), Özge Ülgen, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi, Yasemin Mocan Çağlar, Begüm Yörük, Saniye Girit
<b>PA5084</b>	<b>Tuberculous meningoencephalitis complicate with mielitis</b> Olga Adriana Caliman-Sturdza (Suceava, Romania)
<b>PA5085</b>	<b>Peripheral blood monocyte and pleural effusion aetiology</b> Maged Hassan (Alexandria, Egypt), ABDALLAH DABBAS, Mohammad Yosri, Alaa Amin, Nada Abdelsalam, Aya Ayman, Marina Ibrahim, Nada Nawar
<b>PA5086</b>	<b>Etiology of exudative pleural effusion among adults: differentiating between tuberculous and other causes, a multicenter prospective cohort study</b> Mansoor Hameed (Doha, Qatar), Mousa Hussein, Merlin Thomas, Mustafa Al-Tikrity, Tasleem Raza, Esraa Alkhateeb, Aisha Aladab, Wanis Ibrahim, Prem Chandra
<b>PA5087</b>	<b>Lung function impairment after completing tuberculosis therapy - preliminary findings of StatinTB/ExtendTB</b> Sandra Mukasa (Cape Town, South Africa), Karen Wolmarans, Antoneta Mashinyira, Patrick Katoto, Fareda Jakoet-Bassier, Christian Buess, Reto Guler, Gunar Gunther, Friedrich Thienemann
<b>PA5088</b>	<b>Predictive factors for unfavourable outcome of Tubercular(T.B) cervical lymphadenitis</b> Darshan Kumar Bajaj (Lucknow (Uttar Pradesh), India), Surya Kant, Nagendra Kumar, Jyoti Bajpai, Richa Tyagi, R A S Kushwaha, Rajiv Garg, Ajay Kumar Verma, Anand Srivastava, Sapna Dixit, Nandini Dixit, Chanchal Rana, Santosh Kumar, S K Verma
<b>PA5089</b>	<b>Utility of CT scan in pulmonary tuberculosis disease</b> mohamed karim darragi (Ariana, Tunisia), Sarra Maazaoui, Yassine Foudhaili, Olfa Ben Moussa, Amany Touil, Sonia Habibeche, Hajer Racil, Nawel Chaouch

**PA5090 Ocular Tuberculosis: a challenging condition**  
Joana Marques Diogo (Sesimbra, Portugal), Carlos Figueiredo, Helena Pires, Júlia Silva, Carlos Monteverde, Dalila Ferreira, Joana Carvalho, Susana Carreira, Teresa Mourato, Luís Coelho

**PA5091 The impact of video-supported treatment in the case-management and outcome of tuberculosis**  
Tatiana Osipov (Chisinau, Republic of Moldova), Alina Malic, Evelina Lesnic, Adriana Niguleanu

PS-15 in poster area

Session 495

16:00 - 17:30

Poster session: COVID-19 in specific populations

Disease(s) : Airway diseases Respiratory critical care Interstitial lung diseases

Method(s) : Epidemiology General respiratory patient care Physiology Public health Respiratory intensive care Imaging Pulmonary function testing Pulmonary rehabilitation

Tag(s) : Clinical

Chairs : Aikaterini Dimakou (Agia Paraskeyi, Greece), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

**PA5093 Immunosuppressed patients with severe COVID-19 pneumonia: clinical characteristics and outcomes**  
Eduardo Forin (Barcelona, Spain), Flavia Galli, Francisco Jose Molina Saldarriaga, Anna Motos, Sofia Misuraca, Enric Barbeta, Joan Canseco, Laia Fernandez-Barat, Andrea Catalina Palomeque, Jesus Francisco Bermejo Martin, Ferran Barbé Illa, Antoni Torres

**PA5094 Characteristics and outcomes of pregnant women with severe pneumonia related to SARS-CoV-2 admitted to intensive care unit: a retrospective study.**  
Naim Dhifaoui (Kairouan, Tunisia), Azza Yedes, Sawsen Bourommena, Becem Trabelsi, Chawki Mrazguia, Mechaal Ben Ali

**PA5095 The Accuracy of CARB (COVID ASSESSMENT AND REVIEW BOARD) Screening Tool in diagnosing patients with COVID 19 from March 2020 to March 2022 in Silliman Medical Center Foundation Incorporated; A retrospective descriptive cross sectional study**  
L. Angelique Gene Duran (Dumaguete, Philippines), Dehuel Cuyacot, Brian Joseph Calinawagan, Gamaliel Garcia, John Anthony Tindoc, Hannah Candace Catacutan

**PA5096 Clinical profile of COVID patients and predictors of long COVID - South Asian data**  
Rekha Parameswari (Kottayam (Kerala), India), Kummannoor Parameswaran Venugopal, Sukumaran Parackal, Athulya Kumar, Beena Thomas

**PA5097 SMOKING AND COVID-19: A COMPLEX INTERACTION**  
Mariem Chaabane (Tunis, Tunisia), Hajer Racil, Mariem Friha, Sarra Maazaoui, Sonia Habibech, Ameny Touil, Nawel Chaouch

**PA5098 Risk of SARS-CoV-2 infection and disease severity among people with bronchiectasis: analysis of three population registries**  
Michal Shteinberg (Haifa, Israel), Oriol Sibila, Nili Stein, Rosa Faner, Alexander Jordan, Nuria Olvera, Pradeesh Sivapalan, Jens Ulrik Jensen, Megan Crichton, James Chalmers, Christian Meyer, Walid Saliba

**PA5099 Residence density and outcome of COVID infection among bronchiectasis patients**  
Christian Niels Meyer (Roskilde, Denmark), Alexander S Jordan, Pradeesh Sivapalan, Christian Niels Meyer, Michal Shteinberg, Jens Ulrik S Jensen

**PA5100 The Relation between ACE Gene Polymorphism and the Severity of COVID-19 Infection**  
Ahmed Abdallah Bayoumy (Ismailia, Egypt), Yara El-Sayed Marei, Hassnaa Mohamed Abulazm Nassar, Bassam Mansour, Asmaa Bakeir Hamady

**PA5101 Characteristics of frailty in perimenopausal women with Long COVID-19 syndrome**  
Laura Lopez Lopez (Granada, Spain), Alba Navas Otero, Araceli Ortiz Rubio, Andrés Calvache Mateo, Irene Cabrera Martos, Irene Torres Sánchez, Marie Carmen Valenza

**PA5102 Comparison of patients hospitalized for COVID-19 in the periods of Delta and Omicron variants dominance in Greece**  
Vagia Karageorgou (Athens, Greece), Andriana I Papaioanou, Maria Kallieri, Myrto Blizou, Stefanos Lampadakis, Maria Sfika, Antonios Krouskos, Vasileios Papavasileiou, Franceska Strakosha, Kalliopi Theoni Vandorou, Pavlos Siozos, Marina Moustaka Christodoulou, Georgia Kontonasiou, Vasiliki Apollonatonou, Elvira Markella Antonogiannaki, Christos Kyriakopoulos, Christina Aggelopoulou, Christos Chronis, Konstantinos Kostikas, Evangelia Koukaki, Zoi Sotiropoulou, Athanasia Athanasopoulou, Petros Bakakos, Pinelopi Sxini, Emmanouil Alevrakis, Sotirios Poupous, Evangelia Chondrou, Dionisis Tsoukalas, Alexia Chronaiou, George Tsoukalas, Sofia Koukidou, Georgios Hillas, Katerina Dimakou, Konstantinos Roukas, Ifigenia Nakou, Diamantis Chloros, Evangelia Fouka, Spyros A Papisir, Stelios Loukides

**PA5103 Influence of comorbid pathology on the formation of the post-Covid syndrome**  
Lilia Todoriko (Chernivtsi, Ukraine), Olena Pidverbetska, Olga Shevchenko, Tetyana Frolova

- PA5104 COVID 19 in Indian healthcare workers- a case series**  
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Sekar Rajasekar, Deepa Shankar, Barney Isaac, Balamugesh Thangakunam
- PA5105 Shunt fraction and radiological involvement in Covid-19 related Acute Respiratory Failure**  
Luca Novelli (Bergamo, Italy), Luca Malandrino, Maurizio Balbi, Federico Raimondi, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberta Trapasso, Roberta Biza, Gianmario Marchesi, Fabiano Di Marco
- PA5106 Body mass index and COVID-19 disease; patient characteristics, complications and outcome.**  
Ahmed Kabil (Cairo, Egypt), Moaaz Atef, Hossam Abdelmoez
- PA5107 Impact of COVID-19 on patients with PiZZ alpha1-antitrypsin deficiency: the IMCA1 study revisited.**  
David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Chorostowska-Wynimko, Angelo Corsico, Cristina Esquinas, Gerard McElvaney, Annelot Sark, Maria Sucena, Hanan Tanash, Alice Turner, Marc Miravittles
- PA5108 Impact age-adjusted Charlson comorbidity index on hospital and one year mortality in Chilean patients with COVID-19**  
Felipe Cayupi (Santiago, Chile), Miljenko Lolas, Francisco Arancibia, María José Corrales, Juan Pablo Cuevas, Daniel Ramos, Constanza Tamblay, Karina Ramirez, Janiele Venegas, Jorge Cheg, Roberto Gonzalez, Elias Chahuan, Carolina Camp
- PA5109 Clinical impact of COVID-19 in patients with chronic obstructive pulmonary disease**  
Carlos Manzano Senra (Lleida, Spain), Ivan D Benítez, Anna Moncusí-Moix, Clara Gort-Paniello, Sally Santistevé, Jordi De Batlle, Jessica González, Ferran Barbé
- PA5110 Effects of submaximal exercise on respiratory mechanics in subjects after COVID-19: a descriptive observational study**  
Lucas Botelho Azevedo (Ribeirão Preto, Brazil), Daniele Oliveira Dos Santos, Jéssica Perossi, Thales Henrique Carmo Furquim, Ana Catarine Veiga, Naiara Teixeira Chinellato, Viviane Nunes Ferreira Csizmar, Livia Pimenta Bonifácio, Fernando Bellissimo Rodrigues, Hugo Celso Dutra Souza, Ada Clarice Gastaldi
- PA5111 Critical course of COVID-19 risk assessing. Ambulatory stage of treatment analysis.**  
Nataliia Kravchenko (Dnipro, Ukraine), Olha Cherkasova, Lyubov Korsun, Anastasiia Fominykh, Bohdan Chernolevsky
- PA5112 DIABETES AND SARS COV-2 INFECTION: PREVALENCE AND IMPACT ON SEVERITY**  
Slim Ghedira (TUNIS, Tunisia), Sarra Maazaoui, Amany Touil, Sonia Habibech, Hajer Racil, Nawel Chaouch

**PS-16 in poster area****Session 496****16:00 - 17:30****Poster session: Pneumonia****Disease(s) :** [Airway diseases](#)**Method(s) :** Epidemiology General respiratory patient care Imaging Endoscopy and interventional pulmonology Public health  
Respiratory intensive care Cell and molecular biology**Tag(s) :** Clinical**Chairs :** Eva Van Braeckel (Ghent, Belgium), Letizia Traversi (Cittiglio, Italy)

- PA5113 Impact of pneumococcal vaccination in treating elderly patients with hospitalized community-acquired pneumonia**  
Moonjin Kim (Seoul, Republic of Korea), Seohyun Kim, Tai Joon An, Jeong Uk Lim, Chan Kwon Park, Hyoung Kyu Yoon
- PA5114 Rapid PCR ( BIOFIRE)- A paradigm shift in management of pneumonia**  
Beauty Biswas (West Bengal, India), Amrita Bhattacharyya, Raja Dhar, Somnath Bhattacharya, Saikat Pal, Deep Narayan Mukherjee
- PA5115 Early appropriate antimicrobial treatment guided by BioFire FilmArray may attenuate systemic inflammatory response in VA-LTRI patients**  
Andrea Palomeque Flores (BARCELONA, Spain), Nona Rovira-Ribalta, Alba Soler, Leticia Bueno Freire, Anna Motos, Rubén López-Aladid, Enric Barbeta, Joan Canseco, Miriam Villanueva, Nil Vázquez, Antoni Torres\*, Laia Fernández-Barat
- PA5116 Poor prognostic factors in acute community-acquired pneumonia**  
Houda Rouis (Ariana, Tunisia), Alaeddine Radhouani, Chirine Moussa, Mehdi Abdenadher, Faten Mhiri, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Maalej
- PA5117 Association between HRCT image findings of aspiration pneumonia and elevated bronchoalveolar lavage amylase and pepsin**  
Tomoko Suzuki (Iruma-gun, Japan), Miwako Saitou, Yuka Utano, Kenichi Utano, Katsunao Niitsuma
- PA5118 Value of soluble urokinase plasminogen activator receptor (sUPAR) for predicting severity of community-acquired pneumonia (CAP)**  
Lisa Hessels (Alkmaar, Netherlands), Ruud Duijkers, Marianne Schoorl, Lotte Terpstra, Willemien Thijs, Wim Boersma

PA5119	<b>Development of a new prognostic score to predict pneumonia outcomes using artificial intelligence-based chest radiograph results</b> Eun Hye Lee (Seoul, Republic of Korea), Ji Soo Choi, Hyun Joo Shin, Kyunghwa Han, Eun Kyung Kim
PA5120	<b>Exposure to antimicrobials and microbiological yields from bronchoscopy in immunocompromised patients, a single-centre two-year experience.</b> Albert Teng (Singapore, Singapore), Deshawn Tan, Kundan Reddy Saripalli, Timothy Toh, Youxin Puan, Brian Chua, Isaac Fong, Yi Hern Tan
PA5121	<b>COMMUNITY-ACQUIRED PNEUMONIA: RISK AND PROGNOSIS</b> Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko
PA5122	<b>Clinical utility of routine bronchoscopic secretion sampling for microbiological and multiplex PCR during bronchoscopy</b> Christopher Milacek (Wien, 05. Bezirk, Margareten, Austria), Marco Idzko, Daniela Gompelmann
PA5123	<b>Results of microbiome analyses on bronchoalveolar lavage (BAL) sample</b> Katarina Pontoppidan (Southampton, United Kingdom), Christian Niels Meyer, Xiaohui C Nielsen, Jens J Christensen, Henrik Vedel Nielsen, Kurt Fuursted, Christian S Jensen
PA5124	<b>BACTEREMIA PREDICTION IN PNEUMOCOCCAL PNEUMONIA: A COMPARATIVE STUDY OF 2 SCORES</b> Leyre Serrano Fernandez, Luis Alberto Ruiz Iturriaga, Silvia Perez-Fernandez, Pedro Pablo España Yandiola, Catia Cilloniz, Ainhoa Gomez Bonilla, Edurne Echeverria Guerrero, Beatriz Gonzalez Quero, Ane Uranga Echeverria, Antoni Torres Marti, Rafael Zalacain Jorge
PA5125	<b>Impact of absence of an early circulating neutrophil count expansion on outcome of patients with community-acquired pneumococcal pneumonia</b> Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Silvia Perez-Fernandez, Sonia Castro Quintas, Amaia Urrutia Gajate, Edurne Echevarria Guerrero, Beatriz Gomez Crespo, Ainhoa Gomez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge
PA5126	<b>Microbiology, appropriateness of empiric antibiotics and clinical outcome of hospital-acquired pneumonia in the era of multidrug-resistant Acinetobacter baumannii</b> Myung Goo Lee (Chuncheon, Republic of Korea)
PA5127	<b>Comorbidity-based distribution of pneumococcal serotypes in Greek adults hospitalized with community-acquired pneumonia (CAP)</b> Adamadia Liapikou (Athens, Greece), Vasiliki Kossyvaki, John Skiadas, Eleftherios Markatis, Damianos Menegas, Cristina Méndez, Claudia Schwarz, Maria Lahuerta, Elizabeth Begier, Bradford D. Gessner, Haralampos Milionis, Vasilios Tsimihodimos, Konstantinos Kostikas, Athanasios Konstantinidis, Gerasimos Baxevanos, Charalampos Triantafyllidis, Theodora Argiriadou, Chrysvgi Terrovitou, Daniil Daniilidis, Paraskevi Katsaounou, Michael Toubis, T. Egnatia Study Group
PA5128	<b>Association of C-reactive protein with glycaemia and insulin resistance in patients with community-acquired pneumonia – a prospective, observational cohort study</b> Arnold Dzung (København, Denmark), Camilla Koch Rysør, Maria Hein Hegelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Christian Ritz, Daniel Faurholt-Jepsen, Birgitte Lindegaard
PA5129	<b>Phenotypes of Hospitalized Patients with Pneumonia</b> Daniel Knox (Murray, United States), Jason Carr, Simon Brewer, Samuel Brown, Nathan Dean, Ithan Peltan
PA5130	<b>Altered sphingolipid metabolism in community acquired pneumonia</b> Kurt Gerhard Stollberg (Jena, Germany), Ha-Yeun Chung, Dirk K. Wissenbach, Marc-Thilo Figge, Frank T. Peters, Martin Witznath, Markus H. Gräler, Mathias W. Pletz, Ralf Alexander Claus, . Capnetz-Study Group
PA5131	<b>CLINICAL MANAGEMENT OF PNEUMONIA VERSUS RECOMMENDATIONS OF THE SEPAR GUIDELINES.</b> Javier Sánchez Masa (Palencia, Spain), María Inés Salazar Lozano, Ana Pérez Dublang, María Ángeles Escobar Valero, Sara Barakat Fernández, María Beatriz Cartón Sánchez, Andrea Crespo Sedano, Esther Alonso Sastre, Enrique Alonso Mallo, Alba Daniela García Molina, María Irene Alaejos Pascua, Ana María Andrés Porras, Francisco Javier Pagán Buzo, Ana Villacorta Soto, María Gloria Galindo Laso
PA5132	<b>The clinical significance of anaerobic coverage in the antibiotic treatment of aspiration pneumonia: a systematic review and meta-analysis</b> Yuki Yoshimatsu (London, United Kingdom), Masaharu Aga, Kosaku Komiya, Shusaku Haranaga, Yuka Numata, Makoto Miki, Futoshi Higa, Kazuyoshi Senda, Shinji Teramoto

PS-17 in poster area

Session 497

16:00 - 17:30

Poster session: Unravelling diagnostic and treatment modalities in lung cancer

**Disease(s) :** Thoracic oncology Airway diseases

**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Imaging Surgery Public health

**Tag(s) :** Clinical

**Chairs :** Angshu Bhowmik (Barnet (Hertfordshire), United Kingdom), Andrew Creamer (Bristol (Avon), United Kingdom)

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- PA5133** **Assessing the ability of MRI in lung cancer mediastinal staging: rationale and preliminary results**  
Francesco Bertuccio (Pavia, Italy), Paolo Cossetta Reponi, Alice Lionetti, Laura Saracino, Stefano Tomaselli, Chandra Bortolotto, Angelo Guido Corsico, Giulia Maria Stella
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- PA5134** **Slow-pull versus suction technique: comparison of diagnostic yield (DY) and sample adequacy (SA) between two different EBUS-TBNA sampling methods.**  
Filippo Lanfranchi (Venice, Italy), Gioele Castelli, Laura Mancino, Gabriele Foltran, Licia Laurino, Lorenzo Nicolè, Lucio Michieletto
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- PA5135** **Rapid on-site evaluation (ROSE) by a trained pulmonologist, is it possible?**  
Juan Francisco De Mesa Alvarez (Madrid, Spain), Carlos Disdier Vicente, Blanca De Vega Sanchez, Álvaro Pérez Rodriguez, Soraya Fernandez Gay, Esperanza Guzman Ansado, Norman Andres Villamagua Arias
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- PA5136** **Sarcoid-like granulomatous inflammation in the setting of underlying malignancy: endobronchial ultrasound registry-based report and a call for caution**  
Grgur Salai (Zagreb, Croatia), Robert Gecevic, Tajana Stoos Veic, Divo Ljubicic
- 
- PA5137** **Feasibility using bronchoscopic specimens for next-generation sequencing in resectable non-small lung cancer**  
Kaito Yano (Tokyo, Japan), Yuji Matsumoto, Hideaki Furuse, Keigo Uchimura, Tatsuyuya Imabayashi, Takaaki Tsuchida
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- PA5138** **Role and performance of bronchoscopy with cytologic samplings in lung cancer**  
Stephanie Wang (Dollard des Ormeaux, Canada), Laetitia Amar, Ping Shi Zhu
- 
- PA5139** **Is the slim bronchoscope the right compromise between ultra thin and conventional bronchoscopy for peripheral pulmonary lesions (PPLs)?**  
Filippo Lanfranchi (Venice, Italy), Laura Mancino, Lorenzo Nicolè, Licia Laurino, Lucio Michieletto
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- PA5140** **Pleural complications of ablation for lung tumours: a single-centre experience**  
Poppy Denniston (London, United Kingdom), Kate Brackenborough, Alex Brodey, Beenish Iqbal, Dinesh Addala, Suzy Guo, Paul Lyons, John Wrightson, Mark Anderson, Najib Rahman
- 
- PA5141** **The clinical feature and optimal treatment strategy of bone metastasis in EGFR mutated NSCLC patients**  
Wen-Chien Cheng (Taichung, Taiwan), Wei-Chun Chen, Chieh-Lung Chen, Wei-Chih Liao, Chih-Yen Tu, Te-Chun Hsia, Hung-Jen Chen, Chia-Hung Chen
- 
- PA5143** **The Effects of Geographical Variation on Radical Treatment Rates in Lung Cancer**  
Richard Cooper (Malpas, United Kingdom), Buddug Eckley, Jack Barrington, Daniel Menzies
- 
- PA5144** **Resection rates in early-stage lung cancer in an Australian regional centre**  
Manoj Thogesan (Newcastle, Australia), Krishobhan Baskaran, Christian Stolz, Vineeth George
- 
- PA5145** **Pancoast tumor: surgical management**  
Sarra Zairi (Tunis, Tunisia), selma madhi, Imen Bouassida, Hazem Zribi, Amina Abdelkebir, Mahdi Abdennadher, Ines Moussa, Adel Margheli
- 
- PA5146** **Mortality and recurrence following surgically treated primary lung malignancy**  
Yvette Farrugia (Zurrieq, Malta), Darlene Mercieca, Peter Fsadni
- 
- PA5147** **Multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgical resections; a tertiary centre experience**  
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Ioannis Kyritsis, Fotis Kyriakou, Nikolaos Anastasiou
- 
- PA5148** **Prognostic factors for patients operated on for a IIIAN2 non-small cell lung cancer: A retrospective study**  
Sarra Zairi (Tunis, Tunisia), AHMED BAKHTI, Mahdi Abdennadher, Hazem Zribi, Amina Abdlekbir, Sonia Ouerghi, Mouna Mlika, Adel Marghli
- 
- PA5149** **Treatment outcome and safety of concurrent chemoradiation in elderly patients with unresectable Stage III non-small cell lung cancer**  
So Jeong Kim (Hwaseong, Republic of Korea), Na Young Kim, Soojie Chung, Jeong-Hee Choi, In Gyu Hyun, Junghyun Kim
- 
- PA5150** **Endobronchial brachytherapy (EBBT) as palliative treatment in metastatic endobronchial disease from distant organs. Experience of an Oncological Hospital during the last decade.**  
Danai Bisirtzoglou (Athens, Greece), Thaleia Gioxari, Konstantina Papalla, Athanasios Zetos, Ira Michailidou, Vasiliki Petta, Georgios Politis
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**PA5151 Clinical study of AERO stent placement for malignant airway stenosis in Okayama Medical Center**  
Kenichiro Kudo (Okayama, Japan), Ken Sato

**PA5152 Diagnostic and therapeutic approach of rare thoracic tumors**  
Besma Hamdi (Tunis, Tunisia), Hanene Smadhi, Sabine Elfidha, Hadhemi Rejeb, Hela Kamoun, Bochra Karaborni, Chaima Djenayah, Ines Akrouf, Dorra Greb, Hajer Benabdelghaffar, Hela Hassen, Leila Fekih, Mohamed Lamine Megdiche

PS-18 in poster area

Session 498

16:00 - 17:30

Poster session: Pulmonary fibrosis: miscellaneous

Disease(s) : [Interstitial lung diseases](#) [Airway diseases](#) [Respiratory critical care](#)

Method(s) : Epidemiology Pulmonary function testing General respiratory patient care Cell and molecular biology Palliative care Imaging Physiology Pulmonary rehabilitation Surgery Public health

Tag(s) : Translational

Chairs : Esther Jeritza Nossent (Amsterdam, Netherlands), Laura Fabbri (London, United Kingdom)

**PA5153 Virtual pulmonary rehabilitation for people with idiopathic pulmonary fibrosis: a mixed methods feasibility study**  
Orlagh O'Shea (Belfast (Belfast), United Kingdom), Grainne Murphy, Luke Forde, Katherine O'Reilly

**PA5154 Physical activity measurement with questionnaire in idiopathic pulmonary fibrosis**  
Patrick Hurley (Barcelona, Spain), Diana Badenes Bonet, Anna Rodó-Pin, Diego Castillo-Villegas, Vanesa Vicens-Zygmunt, Guadalupe Bermudo, Fernanda Hernández-González, Karina Portillo, Juana Martínez-Llorens, Anna Herranz, Roberto Chalela, Jacobo Sellarés, Maria Molina-Molina, Xavier Duran, Joaquim Gea, Diego Rodríguez-Chiaradia, Eva Balcells

**PA5155 IS THE PORTABLE CONCENTRATOR THE BEST SOLUTION TO CORRECT EXERCISE OXYGEN DESATURATION?**  
Ariadna Farre Maduell (barcelona, Spain), Ana Alonso, Patricia Peñacoba, Fatima Morante, Maria Rosa Güell

**PA5156 Association between smoking and prognosis in patients with idiopathic pulmonary fibrosis**  
Min Jee Kim (seoul, Republic of Korea), Hee-Young Yoon, Hoseob Kim, Yoonjong Bae, Jin Woo Song

**PA5157 Interstitial lung disease increases the risk of severe COVID-19 infection; a retrospective registry-based epidemiological study of the entire adult Swedish population**  
Emil Ekblom (Uppsala, Sweden), Christer Jansson, Andrei Malinovsky, Össur Emilsson, Magnus Sköld, Lisa Carlsson, Fredrik Nyberg

**PA5158 A Retrospective Observational Study of post-COVID-19 patients - clinical outcome, follow-up and patient characteristics in Post-COVID Pulmonary Fibrosis (PC-PF)**  
Catherine Salisbury (Bromsgrove, United Kingdom), Poh Chai Tan, Hannah Badawy, Abhimanyu Lal, See Ling Tan

**PA5159 FVC and DLCO evolution after initiation of antifibrotics as prognostic factors in IPF**  
Marie Vermant (Elsene, Belgium), Tinne Goos, Nathalie Veyt, Stefan Gogaert, Marianne S Carlon, Nico De Crem, Laurens J De Sadeleer, Ellen De Langhe, Adriana Dubbeldam, Bart Vanaudenaerde, Erik K Verbeken, Johnny Verschakelen, Birgit Weynand, Jonas Yserbyt, Patrick Verschuere, Joseph Jacob, Wim A Wuyts

**PA5160 Second-line antifibrotics in patients with idiopathic pulmonary fibrosis: a real-life experience**  
Stefano Levra (Moncalieri, Italy), Giuseppe Guida, Vitina Carrero, Francesca Bertolini, Elisa Arrigo, Elisa Riccardi, Flavio Crosa, Paolo Carlo Ghio, Carlo Albera, Fabio Luigi Massimo Ricciardolo

**PA5161 Evaluation of a German R-Scale questionnaire in various ILD diagnoses**  
Sina Stoltefuß (Munich, Germany), Gabriela Leuschner, Sabine Zimmermann, Katrin Milger-Kneidinger, Teresa Kauke, Jürgen Behr

**PA5162 Correlation of traction bronchiectasis with lung function decline in patients with interstitial lung diseases**  
TOMONORI MAKIGUCHI (Hirosaki, Japan), Kei Chubachi, Yusuke Tanaka, Haruka Odagiri, Chiori Tabe, Yoshiko Ishioka, Hisashi Tanaka, Kageaki Taima, Sadatomo Tasaka

**PA5163 The prognostic value of blood eosinophils/monocyte count and Neutrophils/Lymphocyte ratio (NLR) in patients with IPF, CPFE and COPDA retrospective multicenter cohort study**  
Yen-Fu Chen (Yun-Lin County, Taiwan), Pei-Fen Wu, Hsin-Yi Wang, Chung-Yu Chen, You-Yi Chen, Chia-Ling Chang, Jerry Shu-Hung Kuo, Kuan-Ming Su, Ning Chien, Ping-Hung Kuo, Hao-Chien Wang, Chong-Jen Yu

**PA5164 Leveraging disease progression modeling to aid clinical decision and optimize drug development for Idiopathic Pulmonary Fibrosis (IPF)**  
Tu Mai (South San Francisco, United States), Justin Wilkins, Shweta Vadhavkar, Katerina Samara, Nikhil Kamath, Lin Pan, Joy Hsu

- PA5165** **Sulforaphane (SFN) derivatives attenuate at pulmonary fibrosis both in vivo bleomycin (BLM)-induced model and in vitro TGF- $\beta$ 1-induced model**  
Sung Hwan Jeong (Incheon, Republic of Korea), Eun Suk Son, Sun Young Kyung, Jeong-Woong Park, So Young Park, Young Eun Lee, Se-Hee Kim
- PA5166** **Association between parenchymal B-cell follicles and CT-proven enlarged mediastinal lymph nodes in patients with pulmonary fibrosis**  
Sissel Kronborg-White (Lystrup, Denmark), Elisabeth Bendstrup, Line Bille Madsen, Finn Rasmussen, Venerino Poletti
- PA5168** **Survival in interstitial lung diseases – 11 years observation of 2497 patients.**  
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros
- PA5169** **Idiopathic pulmonary fibrosis mortality among ever-employed persons aged  $\geq 15$  years, by industry and occupation—United States, 2021**  
Jacek Mazurek (Morgantown, United States), Girija Syamlal, David Weissman
- PA5170** **Surgical pulmonary biopsy in ILD: analysis of complications and survival**  
Sonia Pascual García (Leganés, Spain), Cristina Matesanz López, Beatriz De Olaiz Navarro, Jose Antonio Aramburu González, Eva Aguilar Rivilla, Beatriz Raboso Moreno, Adriana Rodriguez Perojo, Araceli Abad Fernández, Maria Teresa Río Ramirez
- PA5171** **Multidisciplinary management of interstitial lung disease in NHS Scotland**  
Emily Turner (Glasgow, United Kingdom), Linda Sparks, Phil Korsah, Tom Fardon
- PA5172** **Occurrence of Pneumothorax in patients with pulmonary idiopathic fibrosis and acute respiratory failure treated with High-Flow Nasal Cannula: A Case Series**  
Chiara Di Maria (S. Gregorio, Italy), Simone Prestifilippo, Claudia Crimi, Carlo Vancheri

PS-19 in poster area

Session 499

16:00 - 17:30

Poster session: Chronic thromboembolic pulmonary hypertension and other aspects in the pulmonary vasculature

Disease(s) : Pulmonary vascular diseases Airway diseases

Method(s) : Pulmonary function testing Cell and molecular biology Physiology Surgery General respiratory patient care Respiratory intensive care Epidemiology Endoscopy and interventional pulmonology Transplantation Imaging

Tag(s) : Clinical

Chairs : Frédéric Lador (Genève 14, Switzerland), Mitja Jevnikar (Paris, France)

- PA5173** **Long-term effects of pulmonary endarterectomy on cardiopulmonary hemodynamics and exercise capacity in chronic thromboembolic pulmonary hypertension: London and Amsterdam experience**  
Andrea Baccelli (Milano, Italy), Azar Kianzad, Natalia J. Braams, Stine Andersen, Jessie Van Wezenbeek, Jeroen N. Wessels, Lucas R. Celant, Anna E. Vos, Rachel Davies, Francesco Lo Giudice, Gulammehdi Haji, Rocco F. Rinaldo, Beatrice Vigo, Petr Symersky, Toon A. Winkelman, Anco Boonstra, Esther J. Nossent, J. Tim Marcus, Anton Vonk Noordegraaf, Lilian J. Meijboom, Frances S. De Man, Asger Andersen, Luke S. Howard, Harm Jan Bogaard
- PA5174** **A screening program for chronic thromboembolic pulmonary hypertension (CTEPH) after pulmonary embolism in SARS-CoV-2.**  
Lucilla Piccari (Barcelona, Spain), Oswaldo Antonio Caguana Vélez, Karys Helena Khilzi Alvarez, Diana Badenes bonet, Roberto Jose Chalela Rengifo, Jose gregorio Gonzalez garcia, Mariela Lizzeth Arita Guevara, Ricardo alberto Reyes jimenez, Anna Herranz blasco, Mireia Admetllo papiol, Anna Rodo Pin, Juanjo Rodriguez sevilla, Flavio Zuccarino, Judith Villar Garcia, Lluís Molina Ferragut, Eva Balcells Vilarnau, Diego Rodriguez Chiaradia
- PA5175** **Long-term safety and survival time under subcutaneous treprostinil treatment in patients with severe chronic thromboembolic pulmonary hypertension (CTEPH)**  
Pavel Jansa (Jirny, Czech Republic), Roela Sadushi-Kolici, Grzegorz Kopec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Steringer-Mascherbauer, Barbara Salobir, Walter Klepetko, Jaroslav Lindner, Irene M. Lang
- PA5176** **The relationship between the preoperative pulmonary function test and DLCO values and the anatomical classification of thrombus in patients who underwent pulmonary endarterectomy with the diagnosis of chronic thromboembolic pulmonary hypertension.**  
Burcu Turan (Istanbul, Turkey), Derya Kocakaya, Sehnaz Olgun Yildizeli, Bedrettin Yildizeli
- PA5177** **Left ventricular diastolic dysfunction attenuates outcomes in CTEPH**  
Katherine Bunclark (Cambridge (Cambridgeshire), United Kingdom), Andrew Fletcher, Alessandro Ruggiero, John Cannon, Gerry Coghlan, James Lordan, Luke Howard, David Jenkins, Martin Johnson, David Kiely, Choo Ng, Nicholas Screatton, Karen Sheares, Dolores Taboada, Steven Tsui, John Wort, Joanna Pepke-Zaba, Mark Toshner



- PA5178 Calibrated automated thrombography demonstrates a hypocoagulable profile in subjects with pulmonary arterial hypertension**  
Sarah Cullivan (Dublin, Ireland), Ciara McCormack, Brian McCullagh, Barry Kevane, Patricia Maguire, Fionnuala Niainle, Sean Gaine
- PA5179 Nocturnal desaturation in patients with chronic thromboembolic pulmonary hypertension.**  
Yu Taniguchi (Kobe, Japan), Hiroyuki Fujii, Kenichi Yanaka, Noriaki Emoto, Kenichi Hirata
- PA5180 Characteristics in patients with inoperable CTEPH and a good hemodynamic outcome post-BPA**  
Mitja Jevnikar (Paris, France), Mithum Kularatne, Philippe Brenot, David Montani, Laurent Savale, Antoine Beurnier, Thomas Lacoste-Palasset, Sabina Solinas, Athénaïs Boucly, Karen Bitton, Anne Roche, Olivier Sitbon, Elie Fadel, Marc Humbert, Xavier Jais
- PA5181 Extracellular microvesicles in animal model of postembolic pulmonary hypertension and in patients with pulmonary embolism and chronic thromboembolic pulmonary hypertension**  
Elva Maria Mendoza Zambrano (Sevilla, Spain), Verónica Sánchez López, Inés García Lunar, Daniel Pereda Arnau, Samira Marín Romerol, Luis Jara-Palomares, Teresa Elías Hernández, Ana García Alvarez, Remedios Otero Candelera
- PA5182 Bleeding under anticoagulant therapy in patients with pulmonary arterial hypertension or chronic thromboembolic pulmonary hypertension: preliminary results from the HEMA-HTP study.**  
Souad Bezzeghoud (St Etienne, France), Hélène Bouvaist, Kais Ahmad, Romain Trésorier, Sandrine Accassat, Claire Dauphin, Cécile Duvillard, Jean-Baptiste Gaultier, Valentine Mismetti, Elodie De Magalhaes, Audrey Thalamy, Vincent Cottin, Géraldine Poenou, Laurent Bertoletti
- PA5183 CTEPH patients with mild hemodynamic severity of disease improve to a similar level of exercise capacity after pulmonary endarterectomy compared to patients with severe hemodynamic disease.**  
Coen van Kan (Amsterdam, Netherlands), Jelco Tramper, Paul Bresser, Lilian Meijboom, Petr Symersky, Toon Winkelman, Esther Nossent, Jurjan Aman, Harm Jan Bogaard, Anton Vonk Noordegraaf, Josien Van Es
- PA5184 Pattern of lung function impairment in patients suffer from chronic thromboembolic pulmonary hypertension**  
Axel Kempa (Loewenstein, Germany), Aleksandar Bokan, Anna Volk, Ana Bokan, Stephan Beckmann, Gerd Staehler
- PA5185 The impact of the Covid-19 pandemic on the lives of patients with pulmonary hypertension**  
Iain Armstrong (sheffield, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith
- PA5186 COVID-19 and pulmonary vasculature; the impact of pulmonary artery dilation in clinical outcome**  
Angelos Zouglos (Halandri, Greece), Kyriaki Tavernaraki, Styliani Arapostathi, Konstantinos Tsiakos, Asimina Nikolakopoulou, Athanasios Andrianopoulos, Alexandros Patsouras, Christina Potari, Dimitrios Arvanitis, Loukas Thanos, Angeliki Rapti
- PA5187 Chest computed tomography demonstrates transient enlargement of the pulmonary artery in COVID-19 pneumonia that regresses after remission of the disease**  
Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaïou, Konstantinos Pagonidis, Eirini Manousaki, Michail Frangkoulakis, Irimi Lambiri, Ioanna Mitrouska, Katerina M. Antoniou, Nikolaos Tzanakis
- PA5188 Renal outcomes after lung and combined heart-lung transplantation in pulmonary hypertension**  
Laura Hardy (Leuven, Belgium), Alexander D'Haenens, Rozenn Quarck, Gitte Aerts, Catharina Belge, Guido Claessen, Dirk Kuypers, Greet De Vlioger, Tom Verbelen, Laurens Ceulemans, Dirk Van Raemdonck, Geert Verleden, Robin Vos, Arne Neyrinck, Marion Delcroix, Laurent Godinas
- PA5189 The effect of mechanical stimulation on cardiac fibroblasts in pulmonary arterial hypertension**  
Fjodor Bekedam (Amsterdam, Netherlands), Marisa Smit, Anton Vonk Noordegraaf, Harm Jan Bogaard, Marie Jose Goumans, Frances De Man, Aida Lluçia-Valldeperas
- PA5190 Assessment of usability and flow profiles of patients with pulmonary hypertension inhaling with a high-resistance Soft Mist Inhaler (SMI)**  
Bernhard Müllinger (München, Germany), Nicolas Buchmann, Robin Huedepohl, Gerian Prins
- PA5191 An open-source tool for risk prediction in operable CTEPH**  
Katherine Bunclark (Cambridge (Cambridgeshire), United Kingdom), James Liley, Alessandro Ruggiero, John Cannon, Gerry Coghlan, James Lordan, Luke Howard, David Jenkins, Martin Johnson, David Kiely, Choo Ng, Nicholas Screaton, Karen Sheares, Dolores Taboada, Steven Tsui, John Wort, Joanna Pepke-Zaba, Mark Toshner
- PA5192 Late Breaking Abstract - Metabolic phenotype determines outcome of pulmonary arterial hypertension**  
Andrea Olschewski (Graz, Austria), Natalie Bordag, Bence Miklos Nagy, Elmar Zügner, Helga Ludwig, Vasile Foris, Chandran Nagaraj, Valentina Biasin, Ulrich Bodenhofer, Christoph Magnes, Bradley A. Maron, Silvia Ulrich, Tobias J. Lange, Konrad Hötzenecker, Thomas Pieber, Horst Olschewski

PS-2 in poster area

Session 500

16:00 - 17:30

## Poster session: Translational research in chronic obstructive pulmonary disease

Disease(s) : [Airway diseases](#) [Interstitial lung diseases](#)

Method(s) : Cell and molecular biology Pulmonary function testing Endoscopy and interventional pulmonology Epidemiology Imaging

Tag(s) : Translational

Chairs : Audrey Joannes (RENNES, France), Slaven Crnkovic (Graz, Austria)

- PA5193** **Testing the novel Q0genova deletion in patient with Alpha1-antitrypsin Deficiency**  
Valentina Barzon (Casanova Lonati (PV), Italy), Stefania Ottaviani, Alice Maria Balderacchi, Alessandra Corino, Sara Magni, Davide Piloni, Angelo Guido Corsico, Ilaria Ferrarotti
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- PA5194** **Is the association between the severity of airflow limitation and DNA Methylation similar in blood and lung tissue in patients with COPD?**  
Sandra Casas Recasens (Barcelona, Spain), Nuria Mendoza, Nuria Olvera, Lidia Perea, Tamara Garcia, Oriol Sibila, Àlvar Agustí, Rosa Faner
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- PA5195** **AIF1 may stimulate the M1 polarization of alveolar macrophages and further promote the development of inflammatory response in COPD**  
Lian Liu (Chengdu (Sichuan), China)
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- PA5196** **Polymorphisms in the Sulfatase Modifying Factor 1 (SUMF1) gene are associated with lung function parameters in patients with COPD**  
Charikleia Ntenti (Thessaloniki, Greece), Antonis Goulas, Leticia Grize, Eleni Papakonstantinou, Michael Tamm, Daiana Stolz
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- PA5197** **Clinical profile in patients with severe alpha-1 antitrypsin deficiency due to rare genotypes**  
Stefania Ottaviani (Pavia (PV), Italy), Davide Piloni, Asia Filosa, Valentina Barzon, Alice Maria Balderacchi, Luciano Corda, Christine Seebacher, Alessandra Corino, Sara Magni, Francesca Mariani, Paolo Baderna, Marco Confalonieri, Leonardo Iannacci, Silvia Mancinelli, Paola Putignano, Giulia Maria Stella, Maria Cristina Monti, Angelo Guido Corsico, Ilaria Ferrarotti
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- PA5198** **Genetic variants in the Iron responsive element binding protein 2 (IREB2) are associated with spirometry parameters and cough prevalence**  
Charikleia Ntenti (Thessaloniki, Greece), Antonis Goulas, Leticia Grize, Eleni Papakonstantinou, Michael Tamm, Daiana Stolz
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- PA5199** **MicroRNA-149-3p regulates cigarette smoke extract-induced autophagy and cellular senescence in human small airway epithelial cells (NHBE) cultured under the air-liquid interface (ALI)**  
Jeong-Woong Park (Incheon, Republic of Korea), Eun Suk Son, Sung Hwan Jeong
- 
- PA5200** **FKBP5 rs4713916: A potential genetic predictor of differential response to triple therapy among COPD patients**  
Charikleia Ntenti (Thessaloniki, Greece), Antonis Goulas, Eleni Papakonstantinou, Leticia Grize, Michael Tamm, Daiana Stolz
- 
- PA5201** **Lung fibroblasts from COPD patients show deficient gene expression in response to cigarette smoke extract**  
Martin Garcia-Ryde (Lund, Sweden), Nicole Van Der Burg, Anna-Karin Larsson Callerfelt, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson
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- PA5202** **Profile of myostatin regulation and downstream mechanisms in the sarcopenia of severe COPD patients**  
Adriana Núñez Robainas (Barcelona, Spain), María Guitart, Antonio Sancho Muñoz, Esther Barreiro
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- PA5203** **Exome seq of patients with severe COPD and advanced emphysema**  
Alen Faiz (Ultimo (NSW), Australia), Simon D. Pouwels, Victor Guryev, Fia S. Boedijono, Huib Kerstjens, Karin Klooster, Jorine E. Hartman, Wim Timens, Corry-Anke Brandsma, Dirk-Jan Slebos, Maarten Van Den Berge
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- PA5204** **Is the lower airways microbiome associated with coronary calcification?**  
Christina Due Svendsen (Bergen, Norway), Rune Nielsen, Solveig Tangedal, Kris Ostridge, Eli Nordeide, Terje Hjalmar Larsen, Karel Kuiper, Tomas Mikal Eagan
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- PA5205** **Identification of negative regulators of Wnt/ $\beta$ -catenin signaling in lung epithelial cells through whole genome CRISPR screen**  
Markus Tammia (Möln dal, Sweden), Anna Dickson, Niamh Mullooly, Adam Corrigan, Alessia Serrano, Yaxin Xue, Chang Kim, Ewa Kolosionek, Stefan Vollmer, Bairu Zhang, Leire Escudero-Ibarz, Valentina Quarantotti, Gabriella Leung, Daniela Cornacchia, Sandeep Botla, Linn Kullberg, Louise Stjernborg, Olivia Pembridge, Mahya Dezfouli, Naomi Lyons, Joseph Collin, Leif Wigge, Anna Forslöv, Mirko Messa, Roxane Paulin, Ceri Wiggins, Bilada Bilican, Henric Olsson, Davide Gianni

- PA5206 Early COPD and Hedgehog interacting protein (HHIP) polymorphisms**  
Mohamed Zakaria LAHMAR (Montpellier, France), Engi Ahmed, Isabelle Vachier, Aurelie Fort, Nicolas Molinari, Anne Bergougnoux, Arnaud Bourdin
- PA5207 Cigarette smoking, COPD and the sex chromosomes**  
Karosham Reddy (Glebe, Australia), Dikaia Xenaki, Senani Rathnayake, Razia Zakarya, Sobia Idrees, Fia Boedijono, Matthew Padula, Maarten Van Den Berge, Alen Faiz, Brian Oliver
- PA5208 Identification of disease modifier genetic variants in PiZZ patients with alpha-1 antitrypsin deficiency**  
Beatriz Martinez Delgado (Madrid, Spain), Janam Lalchandani, Sara Gil-Martin, Sara Perez-Luz, Nerea Matamala, Guillermo Pita, Santiago Jacob, Javier Martin, Myriam Calle, Juan Luis Rodriguez Hermosa, Francisco Casas, Lourdes Lázaro, Jose María Hernandez, Jose Luis Lopez-Campos, Ana Bustamante, Francisco Javier Callejas, Silvia Castillo, Marc Miravittles, María Torres Durán, Gema Gomez-Mariano
- PA5209 Differential DNA Methylation Associated with COPD and COPD Severity**  
Jos van Nijnatten (Groningen, Netherlands), Alen Faiz, Cornelis Joseph Vermeulen, Wim Timens, Maaïke De Vries, Rosa Faner, Corry-Anke Brandsma, Maarten Van Den Berge
- PA5210 Polymorphism endothelin-1 gene (Lys198Asn) in airway remodeling and increased endothelial dysfunction in COPD**  
Elnorahon Abduganieva (Tashkent, Uzbekistan)
- PA5211 Late Breaking Abstract - Characterization of goblet cell metaplasia according to small airway generation and emphysema progression in human lungs**  
Charlotte de Fays (Loverval, Belgium), Vincent Geudens, Yousry Mohamady, Lucia Aversa, Gitte Aerts, Charlotte Hooft, Bruno Detry, Marylene Lecocq, Caroline Bouzin, Sophie Gohy, Ghislaine Gayan-Ramirez, Robin Vos, Bart Vanaudenaerde, Charles Pilette
- PA5212 Development of a next generation sequencing assay for detection of A1AT deficiency**  
Susana Catarino (Derio, Spain), Lorena Alonso, Monika Landeta, Ana Vivanco, Marta Artieda, Amaia Larruskain, Monica Lopez

PS-20 in poster area

Session 501

16:00 - 17:30

## Poster session: The many faces of interventional bronchoscopy

Disease(s) : Thoracic oncology Airway diseases Interstitial lung diseases Respiratory critical care Sleep and breathing disorders

Method(s) : Endoscopy and interventional pulmonology General respiratory patient care Respiratory intensive care Physiology Pulmonary function testing

Tag(s) : Clinical

Chairs : Hari Kishan Gonuguntla (SECUNDERABAD, India), Chair to be confirmed

- PA5213 Navigated transbronchial needle biopsy of mediastinal lymph nodes (Navi-TBNA)– a feasibility trial**  
Felix J.F. Herth (Heidelberg, Germany), Konstantina Kontogianni, Li Xu, Yu Li, Nansheng Wan, Xiaoping Wang, Guangnan Liu, Jing Feng, Ralf Eberhardt, Judith Brock, Frederik Trinkmann
- PA5214 Fiducial marker placement for stereotactic body radiotherapy via convex probe endobronchial ultrasound: a case series and preliminary results**  
Valentina Luzzi (Firenze (FI), Italy), Bianca Peixoto, Marco Trigiani, Luca Ciani, Leonardo Giuntoli, Mauro Loi, Sara Tomassetti
- PA5215 Evaluating the Accessibility and Puncturing Ability of the Thin Convex Probe Endobronchial Ultrasound Bronchoscope in Cadaver Models**  
Yuta Takashima (Sapporo, Japan), Naofumi Shinagawa, Masahiro Kashima, Hitoki Arisato, Daisuke Morinaga, Tomoo Ikari, Shotaro Ito, Kosuke Tsuji, Hirofumi Takahashi, Tetsuaki Shoji, Toshiaki Shichinohe, Satoshi Konno
- PA5216 Finding effective combination of advanced bronchoscopic techniques in diagnosing peripheral lung nodules**  
Bora Lee (Seoul, Republic of Korea), Hee Sang Hwang, Se Jin Jang, Sang Young Oh, Mi Young Kim, Chang-Min Choi, Young Ju Jung, Wonjun Ji
- PA5217 The beginnings of Radial Probe Endobronchial Ultrasound without a Guide-Sheath and fluoroscopy.**  
Yanira Chuquimia Mendoza (Leon, Spain), Javier Juan García, Carmen Lopez Garay, Elena Martin Gallego, Cristina Menendez Sanchez, Pablo Franco Suarez, Yolanda Ramos Alonso, Almudena Regidor Delgado, Patricia Giganto Alfageme, Milagros Blanco Fernandez, Lorena Rodríguez Casado, Luis Carazo Fernandez
- PA5218 Comparing the Diagnostic Yield of using Rapid On-Site Cytology Evaluation (ROSE) and without using ROSE in RP-EBUS Guided Sheath Transbronchial Lung Biopsy with Bronchial Brushing in Peripheral Pulmonary Lesions.**  
Kulchamai Silathapanasakul (Bangkok, Thailand), Thitiwat Sriprasart, Virissorn Wongsrichanalai

PA5219	<b>Electromagnetic navigation bronchoscopy for peripheral pulmonary lesions: An observational study. First experience.</b> Ana Reyes Pardessus Otero (Barcelona, Spain), Inés Podzamczar Valls, Albert Rafecas Codern, Ana Parera Ruiz, Marta Navarro Colom, Virginia Pajares Ruiz, Alfons Torrego Fernández
PA5220	<b>The role of Rapid On-Site Evaluation (ROSE) in diagnostic EBUS-TBNA procedures for stage IV lung cancer.</b> Marwah Almadhi (Manchester, United Kingdom), Haval Balata, Matthew Evison, Azita Rajai, Haider Al-Najjar
PA5221	<b>Nebulized Dexmedetomidine Prior to Flexible Bronchoscopy in Reducing Procedural Cough Episodes: A Randomized, Clinical Trial.</b> Lokesh Kumar Lalwani (Alwar, India), Pawan Kumar Singh, Dhruva Chaudhry
PA5222	<b>A randomised controlled trial of narrow-band imaging vs. white light bronchoscopy-guided endobronchial biopsy in suspected sarcoidosis (NABS)</b> Sahajal Dhooria (Chandigarh, India), Kritarth Rathi, Ritesh Agarwal, Nalini Gupta, Amanjit Bal, Ashutosh Nath Aggarwal
PA5223	<b>Pre-bronchoscopy screening for obstructive sleep apnea. The role of non-invasive mechanical ventilation</b> Katerina Bakiri (Cholargos, Attiki, Greece), Nektarios Anagnostopoulos, Kyriaki Cholidou, Evangelia Koukaki, Emmanuel Theodorakis, Sophia Schiza, Antonia Koutsoukou, Grigorios Stratakos
PA5224	<b>A retrospective analysis assessing prevalence of microbes in patients undergoing endobronchial valve (EBV) insertion for chronic obstructive pulmonary disease (COPD)</b> Francesca Conway (London, United Kingdom), Sara Buttery, Justin Garner, Marta Lenczewska, James Tonkin, Christopher Orton, Nicholas Hopkinson, Samuel Kemp, Pallav Shah
PA5225	<b>Physiological evidence of airway smooth muscle ablation by bronchial thermoplasty</b> Ynuk Bossé (Québec (QC), Canada), Cyndi Henry, Sabrina Biardel, Magali Boucher, Krystelle Godbout, Jamila Chakir, Andréanne Côté, Michel Laviolette
PA5226	<b>Interobserver agreement in the diagnosis of lower airway malacia by dynamic flexible bronchoscopy in children</b> Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Merve Nur Tekin, Beste Özsezen, Birce Sunman, Secahattin Bayav, Mukaddes Ağirtıcı, Batuhan Bakırarar, Ebru Yalçın, Nazan Çobanoğlu
PA5227	<b>High flow oxygen vs standard management during bronchoscopy in COPD patients – a randomised controlled trial</b> Andrei Darie (Basel, Switzerland), Leticia Grize, Kathleen Jahn, Anna Salina, Jonathan Röcken, Matthias Herrmann, Maria Pascarella, Vivian Suarez, Werner Strobel, Michael Tamm, Daiana Stolz
PA5228	<b>Development of New Lateral Forceps for Bronchoscopic Guide-sheath</b> Naofumi Shinagawa (Sapporo, Japan), Yuta Takashima, Koichiro Ito, Takayuki Tsukagoshi, Ryosuke Ito, Takeshi Suga, Hidenori Yoshida, Ryuji Nagamatsu, Tetsuhide Takeyama, Toshiaki Shichinohe, Satoshi Konno
PA5229	<b>The distance by virtual bronchoscopic navigation and lesion diameter were predictive of the diagnostic rates of primary lung cancer and Endobronchial ultrasonography with guide sheath (EBUS-GS) findings by bronchoscopy</b> Atsushi Kitamura (Tokyo, Japan), Yutaka Tomishima, Ryosuke Imai, Naoki Nishimura, Kohei Okafuji, Shosei Ro, Clara So, Tomoaki Nakamura, Torahiko Jinta
PA5230	<b>Bronchoscopic transparenchymal MP290F nodule access (BTPMNA): first in human case series of a novel procedure for sampling solitary pulmonary nodules</b> Hai Feng Ou Yang
PA5231	<b>Ultra-thin bronchoscopy with cone beam CT for small peripheral pulmonary lesions</b> Fumihiro Asano (Gifu, Japan), Tomoya Kato, Akifumi Tsuzuku, Atsunori Masuda, Anri Murakami, Akimasa Tsuchida, Yasutomo Baba, Yutaro Kuzunishi, Mayuka Miyoshi, Yuya Muto, Yui Sasaki, Rina Ota, Genta Otani
PA5232	<b>Ultra-thin cryoprobe: diagnostic and safety profile in peripheral pulmonary lesions</b> Sameer Arbat (Nagpur (Maharashtra), India), Bharat Agrawal

PS-3 in poster area

Session 502

16:00 - 17:30

Poster session: What's new in stem cell therapies and mechanisms underlying acute lung injury-acute respiratory distress syndrome

Disease(s) : [Airway diseases](#) [Respiratory critical care](#) [Interstitial lung diseases](#) [Pulmonary vascular diseases](#)Method(s) : Cell and molecular biology [Respiratory intensive care](#) [Physiology](#) [Imaging](#) [Pulmonary function testing](#)

Tag(s) : Basic science, Translational

Chairs : Anna Krasnodembskaya (Belfast (Belfast), United Kingdom), Carlos Esteban Machahua Huamani (Bern, Switzerland)

- PA5233 Late Breaking Abstract - Liraglutide attenuates sepsis-induced endothelial dysfunction and Acute Lung Injury**  
Julie Bastarache (Nashville, United States), Brandon Baer, Nathan Putz, Kyle Riedmann, Samantha Gonski, Jason Lin, Lorraine Ware, Shinji Toki, Stokes Peebles, Katherine Cahill
- 
- PA5234 Age related changes of the lung extracellular matrix stiffness and stem cell viability**  
Isaac Almendros (Barcelona, Spain), Maria Narciso, Anna Ulldemolins, Alicia Jurado, Daniel Navajas, Ramon Farré, Nuria Gavara
- 
- PA5235 Lung Extracellular Matrix Hydrogels-Derived Vesicles Contribute to Epithelial Lung Repair**  
Isaac Almendros (Barcelona, Spain), Anna Ulldemolins, Alicia Jurado, Carolina Herranz-Diez, Nuria Gavara, Jorge Otero, Ramon Farré
- 
- PA5236 ARDS disease-relevant cytokines alter human mesenchymal stromal cell (MSC) function**  
Sara Rolandsson Enes (Lund, Sweden)
- 
- PA5237 MSCs are protective against 'second hit' injury during pulmonary sepsis in mechanically ventilated rodents.**  
Claire Masterson (Galway (Co Galway), Ireland), Ignacio Sallent, Lanzhi Liu, Hector Gonzalez, Sean Mc Carthy, Declan Byrnes, Senthil Alagesan, Juan Fandiño, Abigail Warren, Daniel O'Toole, John Laffey
- 
- PA5238 Lipofibroblast derived-extracellular vesicles attenuate cigarette smoke-induced lung injury**  
Shota Fujimoto (Tokyo, Japan), Yu Fujita, Naoaki Watanabe, Sachi Matsubayashi, Hironori Kawamoto, Daisuke Takekoshi, Saburo Ito, Shunsuke Minagawa, Hiromichi Hara, Jun Araya, Kazuyoshi Kuwano
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- PA5240 Benefits of bronchial epithelial repair by iPSC in COPD**  
Marion Nadaud (Montpellier, France), Carine Bourdais, Aurélie Fort-Petit, John De Vos, Kheira Hireche, Isabelle Vachier, Engi Ahmed, Arnaud Bourdin
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- PA5241 Adipose mesenchymal stem cells from COPD patients are capable of restoring elastase-induced emphysema in a murine experimental model**  
Aina Martín Medina (Palma, Spain), Carlos Río, Andreas K. Jahn, Alba Martina Calvo Bota, Ma Teresa De Francisco Casado, Pere Joan Pont Antona, Orlando Gigirey Castro, Ángel Francisco Carvajal, Cristina Villena Portella, Cristina Gómez Bellvert, Amanda Iglesias, Javier Calvo Benito, Antoni Gayà Puig, Luis A. Ortiz, Ernest Sala-Llinás
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- PA5242 The sodium-coupled neutral amino acid transporter SNAT2 regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS**  
Juliana Falivene (Berlin, Germany), Sarah Weidenfel, Wolfgang M. Kuebler
- 
- PA5243 Dynamic doublecortin-like kinase 1 (DCLK1) expression on alveolar epithelial type II cells (AT2) in acute respiratory distress syndrome (ARDS) mouse model**  
Xiao-Yue Chen (New Taipei City, Taiwan), Ching Kao, Hsiao-Chi Chuang
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- PA5244 Persistence of lung dysfunction in post-acute COVID-19: a microRNA approach**  
María C García-Hidalgo (Lleida, Spain), Jessica González, Manel Perez-Pons, Iván D Benítez, Marta Molinero, Thalía Belmonte, Carlos Rodríguez-Muñoz, Gerard Torres, Anna Moncusí-Moix, Clara Gort-Paniello, Jesús Caballero, Carme Barberà, Adrián Ceccato, Laia Fernández-Barat, Ricard Ferrer, Dario Garcia-Gasulla, José Ángel Lorente-Balanza, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferrán Barbé, David De Gonzalo-Calvo
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- PA5245 Plasma NET markers kinetics in COVID-19 patients receiving immunomodulatory treatments: a cohort study**  
Renaud Prével (Bordeaux, France), Geoffrey Garcia, Antoine Dewitte, Sylvie Labrousche-Colomer, Chrstine Mouton, Céline Delassasseigne, Fanny Ménard, Camille Vinclair, Erwan Begot, Laurent Petit, Cédric Carrié, Didier Brönnimann, Denis Malvy, Alexandre Duvignaud, Chloé James
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- PA5246 Lung lipid profile upon COVID-19-related Acute Respiratory Distress Syndrome**  
Paula Losada-Oliva (Madrid, Spain), Chiara Autilio, David Sanchez-Ortiz, Alvaro Mingote, Raquel Castejón Diaz, Gonzalo Hernandez, Gema Díaz Nuevo, Mercedes Echaide, Bárbara Olmeda Lozano, Clara Salas, Juan Antonio Vargas, Jesús Pérez-Gil
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- PA5247 Late Breaking Abstract - Macrophage metabolic reprogramming mediated by carnitine palmitoyltransferase 1A in acute lung injury in an IL10-dependent manner**  
Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li
- 
- PA5248 A blood-based microRNA signature for the early prediction of the respiratory sequelae in critical COVID-19**  
Marta Molinero García (Lleida, Spain), Ivan D Benítez, Manel Perez-Pons, Nadia García-Mateo, Alicia Ortega, Tamara Postigo, María C García-Hidalgo, Thalía Belmonte, Carlos Rodríguez-Muñoz, Jessica González, Gerard Torres, Clara Gort-Paniello, Anna Moncusí-Moix, Angel Estella, Luis Tamayo Lomas, Amalia Martínez De La Gándara, Lorenzo Socias, Yhivian Peñasco, María Del Carmen De La Torre, Elena Bustamante-Munguira, Elena Gallego Curto, Ignacio Martínez Varela, María Cruz Martín Delgado, Pablo Vidal-Cortés, Juan López Messa, Felipe Pérez-García, Jesús Caballero, Jose M Añón, Ana Loza-Vázquez, Nieves Carbonell, Judith Marín-Corral, Ruth Noemí Jorge García, Carme Barberà, Adrián Ceccato, Laia Fernández-Barat, Ricardo Ferrer Roca, Dario García-Gasulla, Jose Angel Lorente-Balanza, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferran-Eduard Barbe Illa

- PA5249** **Serum collagen biomarkers are related to fatal outcome in patients with severe COVID-19 in a Phase II clinical trial**  
Helene Wallem Breisnes (Herlev, Denmark), Signe Holm Nielsen, Cecilie Bager, Diana Julie Leeming, Tony Cahn, Ciara O'Shea, Jack Siderfin, Kai Hove, Mark Layton, Anne-Christine Bay-Jensen, Jannie Marie Bülow Sand, Sumanta Mukherjee
- PA5250** **Lung ECM composition, its influence factors and transcriptomics in the lungs of severe COVID-19.**  
Natália de Souza Xavier Costa (São Paulo, Brazil), Gabriel Ribeiro Júnior, Ellen Toledo Do Nascimento, Jôse Mara De Brito, Jhonatas Sirino Monteiro, João Carlos Setubal, João Renato Rebello Pinho, Roberta Verciano Pereira, Renata Aparecida De Almeida Monteiro, Amaro Nunes Duarte Neto, Paulo Hilário Nascimento Saldiva, Luiz Fernando Ferraz Da Silva, Marisa Dolhnikoff, Thaís Mauad
- PA5251** **Long-term follow-up of neutrophil activation after severe-to-critical SARS-CoV-2 infection: a longitudinal study**  
Simon Valentin (Nancy, France), Véronique Regnault, Jean-Louis Guéant, Thery Abel, Patrick Lacolley, Frederic Schlemmer, Ari Chaouat, Francois Chabot, Rosa-Maria Gueant-Rodriguez
- PA5252** **Histopathology of the lungs in the acute and post-acute period of severe COVID-19**  
Oleh Yakovenko (Lutsk, Ukraine), Sergej Griff, Stephanie Hoffmann, Alexandr Khanin, Tetiana Yakovenko, Eduard Khodosh, Yaroslav Dziublyk

## PS-4 in poster area

## Session 503

16:00 - 17:30

## Poster session: Evaluation of sleep and sleep-disordered breathing in different population and patient groups

Disease(s) : Sleep and breathing disorders Airway diseases

Method(s) : Epidemiology Public health Surgery General respiratory patient care Imaging Physiology

Tag(s) : Clinical

Chairs : Marta Susana Monteiro Drummond Freitas (Maia, Portugal), Chair to be confirmed

- PA5253** **Sleep efficiency and sleep onset latency in a First Nation community in Saskatchewan, Canada**  
Chandima Karunanayake (Saskatoon, Canada), James A. Dosman, Mark Fenton, Jeremy Seesequasis, Marie Neubuhr, Warren Seesequasis, Delano Mike, Kathleen McMullin, Malcolm King, Sylvia Abonyi, Vivian R. Ramsden, Donna C. Rennie, Shelley Kirychuk, Niels Koehncke, Robert Skomro, Brooke Russell, Punam Pahwa
- PA5254** **Sleep quality of physicians at a University Hospital - cross-sectional observational study**  
Eduardo Garcia (Porto Alegre (RS), Brazil), Fernanda Altmann Oliveira, Aline Tiemi Hirose Ventura, Carlos Javier Mendoza Bravo
- PA5255** **Perception of Sleep Quality in Health Professionals at a University Hospital - an observational study**  
Eduardo Garcia (Porto Alegre (RS), Brazil), Carlos Javier Mendoza Bravo, Aline Tiemi Hirose Ventura, Fernanda Altmann De Oliveira
- PA5256** **Sleep habits and sleep quality among Tunisians students**  
Ahmed Dhia El Euch (Sfax, Tunisia), Rim Khemakhem, Israa Wadhane, Sabrine Fidha, Rahma Gargouri, Sameh Msaed, Nadia Moussa, Najla Bahloul, Samy Kammoun
- PA5257** **Sex-related sleeping differences in non-Obstructive Sleep Apnea patients**  
Pedro Magalhães Ferreira (Vila Nova de Gaia (District de Porto), Portugal), Filipa Carriço, Daniela Rodrigues, Margarida Redondo, Mafalda Van Zeller, Marta Drummond
- PA5258** **Association of Vitamin B12 levels with Sleep Quality, Insomnia and Sleepiness in Adult Primary Health Care Users in Greece**  
Izolde Bouloukaki (Heraklion (Crete), Greece), Maria Lampou, Konstantina Maria Raouzaïou, Eirini Lambraki, Ioanna Tsiligianni, Sophia Schiza
- PA5259** **Risk of cancer and cancer mortality in obstructive sleep apnoea**  
Jenny Theorell-Haglöw (Uppsala, Sweden), Xingwu Zhou, Gary Wittert, Robert Adams, Sarah Appleton, Amy Reynolds, Mirjam Ljunggren, Nathaniel Marshall
- PA5260** **Obstructive Sleep Apnea Hypopnea Syndrome & Glaucoma**  
Tarek Djenfi (Batna, Algeria), Feryel Chaouki, Mohamed Fateh Roughi
- PA5261** **Sleep related breathing disorders in Chiari malformation type 1 patients**  
Laura Cortezon (Bilbao, Spain), Edurne Echevarría, Teresa Bretos, Yolanda Rey, Maria Luz Zaldibar, Estefanía Perez, Cristina Valverde, Cristina Mosquera, Beatriz González, Amaia Urrutia, Sonia Castro, Valentín Cabriada
- PA5262** **Eat, breathe, sleep with Osteogenesis Imperfecta**  
Antonella LoMauro (Milano (MI), Italy), Vittorio Landoni, Paolo Frascini, Franco Molteni, Andrea Aliverti, Simona Bertoli, Ramona De Amicis

- PA5263 Sickle cell disease phenotypes and obstructive sleep apnea; are they related?**  
Suhail Alsaleh (Riyadh, Saudi Arabia), Norah Alshehri, Sara Alsiddiqi, Mohmmmed Rayis, Safa Eltahir, Mohammed Alzaid, Wadha Alotaibi
- PA5265 Considering obstructive sleep apnoea syndrome as a differential diagnosis in Long COVID patients**  
Katie Bottomley (Nottingham, United Kingdom), Rashad Salman, Rachel Tarrant, Stephen Halpin, Manoj Sivan
- PA5266 Comparison of Objective and Subjective Sleep Assessment in a Post-Covid Population as Assessed by WatchPAT.**  
Christina D. Campbell (Dublin 6, Ireland), Imran Sulaiman
- PA5267 Kleine–Levin and post covid 19 syndromes, a possible relationship?**  
Analúcia Maranhão (Rio De Janeiro (RJ), Brazil), Cinthya Saad
- PA5268 Risk factors for OSA in a population of Italian telecommunication workers**  
Giuseppe Verlatto (Verona (VR), Italy), Giuseppe Insalaco, Pierpaolo Marchetti, Roberta Vesentini, Luciano Romeo
- PA5269 Simplified questionnaire for detecting patients with severe OSA**  
Cuizhen Huang (GuangzhouChina, China), Yuan Feng, Lu Wang, Xiuxuan Xiang, Joerg Steier, Yuanming Luo
- PA5270 Evaluation of a modified Epworth Sleepiness Scale to reliably assess excessive daytime sleepiness in low-income countries: results from the Benin Society and Sleep study (BeSAS)**  
Ablo Prudence Wachinou (Cotonou, Benin), Arnauld Fiogbe, Terence Totah, Gildas Agodokpessi, Raphael Heinzer
- PA5271 The usefulness of observed apnea item in obstructive sleep apnea diagnosis: results from the 2019-2020 Korean National Health and Nutrition Examination Survey**  
EUN BYEOL KO (Seoul, Republic of Korea), Kang-Mo Gu, Hae In Jung, So Young Park, Moon Seong Baek, Won Young Kim, Jae-Chol Choi, Jong-Wook Shin, Jae-Yeol Kim, Jae-Woo Jung
- PA5272 Screening for obstructive sleep apnea in patients with Down Syndrome**  
Ana Maria Fortuna Gutierrez (Barcelona, Spain), Ines Podzamczer Valls, Mercè Mayos Pérez, Susana Clos Batet, Laura Videla Toro, Maria Carmona-Iragui, Isabel Barroeta Espar, Javier José Arranz Martinez, Bessy Benejam Paul, Alberto Lleó Bisa, Juan Fortea Ormaechea, Sandra Giménez Badia

## PS-5 in poster area

## Session 504

16:00 - 17:30

## Poster session: Advancements in asthma management: holistic and personalised insights

Disease(s) : **Airway diseases**

Method(s) : Cell and molecular biology General respiratory patient care Physiology Epidemiology Pulmonary function testing Public health

Tag(s) : Clinical

Chairs : Job F.M. van Boven (Groningen, Netherlands), Zuzana Diamant (Lund, Sweden)

- PA5273 Induced sputum is a simple examination in relation to the diagnosis of eosinophilic asthma.**  
Lene Mølgaard Pedersen (Skanderborg, Denmark), Helle Haagensen Andersen, Torben Smidt-Hansen, Johannes Martin Schmid
- PA5274 Therapeutic drug monitoring of inhaled drugs in hair of patients with asthma: a proof-of-concept study**  
Stanislas Grassin Delye (Montigny le Bretonneux, France), Hélène Salvator, Stanislas Delye, Camille Roquencourt, Françoise Lambinet, Emmanuelle Bardin, Philippe Devillier
- PA5275 Serum inhaled corticosteroid levels in patients with severe asthma.**  
Yik Lam Pang (Nottingham, United Kingdom), Mohammad Ali, Stephen J Fowler, Brian Keevil, Tricia Mckeever, Ian Sayers, Dominick E Shaw
- PA5276 Effects of hormonal fluctuations during the menstrual cycle on asthma**  
Samia Aissani (Algiers, Algeria), Houria Haouichat, Ali Zitouni
- PA5277 Interpretation and clinical significance of multiple-flows exhaled nitric oxide in severe asthma framework**  
Simona Luzzi (Siena, Italy), Lorenzo Alderighi, Tommaso Pianigiani, Beatrice Perea, Maddalena Messina, Martina Meocci, Laura Bergantini, Miriana D'Alessandro, Elena Bargagli, Paolo Cameli
- PA5278 Lung function response to inhaled glucocorticoids in smoking patients with adult-onset asthma**  
Karoliina Lehtola (TAMPERE, Finland), Minna Tammola, Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Pinja Ilmarinen, Hannu Kankaanranta
- PA5279 Steroid weaning service evaluation for patients with severe eosinophilic asthma**  
Natalie Farmer (Leeds, United Kingdom), Rashad Salman, Ian Clifton, Jampa Choedon, Jane Slough

- PA5280** **An online survey on Italian patients' and physicians' perspectives on the management of asthma**  
Deborah Vannucci (Verona, Italy), Maria Sandra Magnoni, Fabio Arpinelli, Giorgio Walter Canonica
- 
- PA5281** **Our experience of Dupilumab and maintenance oral corticosteroid use in severe adult atopic dermatitis associated to severe asthma.**  
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Bernard Gregoire Krikorian, Patrick Gros
- 
- PA5282** **Change in FEV1 as early predictor of response to biological therapy in patients with severe uncontrolled asthma.**  
Sabina Perello Rosello (Palma De Mallorca, Spain), Mireia Vicens Antón, Nuria Toledo Pons, Jose Luis Valera Felices, Rocío Martínez Martínez, Meritxell López Zamora, Amanda Iglesias Comas, Aina Rosa Millan Pons, Francisco De Borja García-Cosío Piqueras
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- PA5283** **Under-treated asthma in adults – a common problem**  
Caroline Stridsman (Luleå, Sweden), Jon R Konradsen, Stina Selberg, Maria Ödling, Apostolos Bossios
- 
- PA5284** **Switching patients to maintenance and reliever therapy in the Emergency Department? - A qualitative study exploring the attitudes and beliefs of patients and healthcare professionals**  
Imogen Skene (London, United Kingdom), Katy Pike, Chris Griffiths, Liz Steed, Paul Pfeffer
- 
- PA5285** **ORBE II study: Is rapid response to benralizumab associated with positive long term clinical outcomes?**  
Pilar Ausin Herrero (Barcelona, Spain), Eugenia Navarrete, Jose Luis Velasco, Alvaro Martinez, Carmen Cañete, Fernando Sánchez Toril, Mónica Santin, Marta Gonzalez, Javier Nuevo, Elisa Luzón, Alicia Padillo
- 
- PA5286** **Dupilumab in Asia-Pacific patients with persistent asthma**  
QingLing Zhang (Guangzhou, China), Zhong Nanshan, Sahajal Dhooria, Xiuhua Fu, Jie Lin, Wen Li, Elizabeth Laws, Leda P. Mannent, Yi Wang, Vivian Li, Anderson Li, Chih-Chi Hu, David J. Lederer, Raolat M. Abdulai, Lacey B. Robinson
- 
- PA5287** **The impact of baseline Asthma Control Test score on severe asthma Super-Responders assessment.**  
Ernesto Lulaj (Bari, Italy), Leonardo Maselli, Ilaria Iorillo, Andrea Portacci, Alessio Marinelli, Francesca Montagnolo, Giuseppe Di Gioia, Maria Rosaria Vulpi, Agnese Caringella, Silvano Dragonieri, Giovanna Elisiana Carpagnano
- 
- PA5288** **Patients-Healthcare providers agreement on Super-Response to biologic treatments in Th2-high severe asthma**  
Leonardo Maselli (Acquaviva delle Fonti, Italy), Ilaria Iorillo, Ernesto Lulaj, Andrea Portacci, Alessio Marinelli, Francesca Montagnolo, Flogerta Sana, Giovanni Dalena, Laura Cuccaro, Maria Anna Ardito, Silvano Dragonieri, Giovanna Elisiana Carpagnano
- 
- PA5289** **Reducing short-acting beta-agonist (SABA) use in asthma: findings from SENTINEL Plus early adopter sites**  
Michael Crooks (East Riding of Yorkshire, United Kingdom), Dominic Sykes, Helena Cummings, Alyn Morice, Samantha Brooks, Arthur Jackson, Yang Xu
- 
- PA5290** **Baseline characteristics of patients with asthma and prior systemic corticosteroid use in the RAPID (dupilumab) registry**  
Enrico Marco Heffler (Milano, Italy), Njira L. Lugogo, Vicente Plaza, Ole Hilberg, Changming Xia, Scott Nash, Nami Pandit-Abid, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz, Megan Hardin, Xavier Soler
- 
- PA5291** **Clinical characteristics of responders and non-responders: experience following four years of Benralizumab therapy**  
Amy Nuttall (Liverpool, United Kingdom), Fred Fyles, Hannah Joplin, Hassan Burhan, Laura Watkins
- 
- PA5292** **Albuterol-budesonide asthma rescue inhaler: patterns of as-needed use**  
Alberto Papi (Cona, Ferrara, Italy), Bradley Chipps, Frank Albers, Lynn Dunsire, Ileen Gilbert, Tim Harrison, Frank Trudo, Mark Weinberg, Christy Cappelletti

PS-6 in poster area

Session 505

16:00 - 17:30

Poster session: "Inflammometry" in asthma and chronic obstructive pulmonary disease

Disease(s) : **Airway diseases**

Method(s) : Pulmonary function testing Epidemiology Physiology Public health Pulmonary rehabilitation Cell and molecular biology Imaging General respiratory patient care

Tag(s) : Clinical, Translational

Chairs : Giuseppe Guida (ORBASSANO (TO), Italy), Tania Maes (Ghent, Belgium)

- PA5293** **Validation of exhaled-breath data for the differentiation between COPD and Asthma**  
Jonathan Röcken (Basel, Switzerland), Andrei Darie, Aline Stalder Siebeneichler, Maria Pascarella, Leticia Grize, Michael Tamm, Daiana Stolz
- 
- PA5294** **Assessment of eosinophilic airway inflammation using formalin-fixed, paraffin-embedded sputum plugs**  
Zil Patel (Ottawa, Canada), Nadia Suray Tan, Alex Huynh, Nicola Calma, Katherine Radford, Snehal Somalwar, Chynna Huang, Melanie Kjarsgaard, Anmar Ayoub, Parameswaran Nair, Manali Mukherjee



- PA5295** **Small airway obstruction according to emphysema severity in human lungs**  
Vincent Geudens (Leuven, Belgium), Charlotte De Fays, Astrid Vermaut, Lynn Willems, Janne Kaes, Tinne Goos, Marie Vermant, Iwein Gyselinck, Lucia Aversa, Hanne Beeckmans, Xin Jin, Charlotte Hooft, Janne Verhaegen, Gitte Aerts, Pieterjan Kerckhof, John E. McDonough, Rozenn Quarck, Stephanie Everaerts, Birgit Weynand, Charles Pilette, Dirk E. Van Raemdonck, Laurens J. Ceulemans, Wim A. Wuyts, Robin Vos, Wim Janssens, Bart M. Vanaudenaerde, Ghislaine Gayan-Ramirez
- 
- PA5296** **Sputum viscosity is correlated with Computed Tomography (CT) mucus score in muco-obstructive lung diseases**  
Jérémy Charriot (Montpellier Cedex 5, France), Aurélie Petit, Carey Suehs, Jérémy Patarin, Eric Matzner-Lober, Isabelle Vachier, Nicolas Molinari, Arnaud Bourdin
- 
- PA5297** **CORRELATION BETWEEN SYSTEMIC INFLAMMATION AND CARDIOVASCULAR RISK IN COPD PATIENTS. DEVELOPMENT OF AN INFLAMMATORY SCORE**  
Ana Muñoz Montiel (Malaga, Spain), Pedro Ruiz Esteban, Natalia García Florido, Esperanza Doña Díaz, Adolfo Domenech Del Río, Casilda Olveira Fuster
- 
- PA5298** **The pH of the human airway: A novel technique to measure distal airway pH.**  
Michael Davis (Indianapolis, United States), Olivia Giddings, Homer Twigg, Nadzeya Marozkina, Kristie Ross, Laura Smith, Benjamin Gaston
- 
- PA5300** **Sputum rheology measurements in chronic respiratory diseases are similar across specialist centres**  
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Taqdees Qureshi, Mathilde Volpato, Isabelle Vachier, Marion Wood, Furkan Zurel, David Thornton, Matthieu Robert De Saint Vincent, Jeremy Patarin, Robert Lord, Stephen Fowler, Jeremy Charriot
- 
- PA5301** **Air pollution and influence of deleterious levels of atmospheric nitrogen dioxide in the development of asthma**  
India Premjithlal Bhaskaran (London, United Kingdom), Arya Premjithlal Bhaskaran, Anusuya Premjithlal Bhaskarn, Premjithlal Bhaskaran
- 
- PA5302** **Abnormalities of sputum rheological characteristics in patients with chronic cough and bronchial asthma**  
Kazuhiro Ito (London, United Kingdom), Haruhiko Ogawa, Yuka Uchida
- 
- PA5303** **The role of vitamin D in COPD.**  
Gulchekhra Tashmetova (Tashkent, Uzbekistan), Irina Liverko
- 
- PA5304** **Sputum rheology is associated with asthma control**  
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Taqdees Qureshi, Furkan Zurel, Leanne Holmes, Lynn Elsey, David Thornton, Stephen Fowler, Thomas Pantin
- 
- PA5305** **The prevalence of and risk factors for non-smoking chronic obstructive pulmonary disease in China: A systematic review and meta-analysis**  
Yongchang Sun (Beijing, China), Yue Zhang, Xiaoyan Gai, Hongling Chu, Jingge Qu, Liang Li
- 
- PA5306** **Serum vitamin D binding protein in Japanese patients with COPD, asthma and ACO.**  
Kenya Koyama (Koshigaya, Japan), Akemi Koyama, Masahiro Irokawa, Ryo Kitajima, Hisanori Hirokawa, Kentaro Nakano, Hiroyoshi Watanabe, Mayuko Ohashi, Tomoshige Wakayama, Shingo Tokita, Ryosuke Souma, Hideyuki Satoh, Yasutsugu Fukushima
- 
- PA5307** **EFFECT OF FOOD INTAKE ON EXHALED VOLATILE ORGANIC COMPOUNDS ANALYZED BY AN E-NOSE.**  
Silvano Dragonieri (Bari (BA), Italy), Marcin Di Marco, Madiha Ahroud, Vitaliano Nicola Quaranta, Andrea Portacci, Enrico Buonamico, Fabrizio Diaferia, Marco Antonio Patrino, Giovanna Elisiana Carpagano
- 
- PA5308** **Characterization of eosinophilic inflammation in a Portuguese bronchiectasis cohort**  
Mariana Maia e Silva (Lisboa, Portugal), Margarida Pereira, Carlos Lopes
- 
- PA5309** **Exhaled nitric oxide in patients with severe alpha-1-antitrypsin deficiency**  
Eduarne Echevarría Guerrero (Barakaldo, Spain), Laura Cortezón Garces, Jone Solorzano Egurbide, Imanol González Muñoz, Elena Garay Llorente, Patricia Sobradillo Ecnarro, Maria Del Mar Mayor Álvarez, Borja Santos Zorroza, Eva Taberero Huguet
- 
- PA5310** **Could we predict chronic obstructive pulmonary disease (COPD) exacerbation based on neutrophil to lymphocyte count ratio (NLR)?**  
Radmila Dmitrovic (Belgrade, Republic of Serbia), Biljana Lazovic, Isidora Simonovic, Ivan Zivotic
- 
- PA5311** **Effect of acute changes in ambient air pollutants on lung volumes, capacities and respiratory impedance in healthy individuals**  
Geetanjali Bade (New Delhi (Delhi), India), Amulya Gupta, K Shanmugasundaram, Anjana Talwar, Kumar Nischay Jaiswal
- 
- PA5312** **Late Breaking Abstract - A point of care (POC) exhaled breath to diagnose asthma**  
Victor Higgs (London, United Kingdom), Hanya Ahmed, Jona Angelica Flavier

PS-7 in poster area

Session 506

16:00 - 17:30

## Poster session: Epidemiology of tobacco and electronic nicotine delivery systems use

Disease(s) : Airway diseases Respiratory critical care Interstitial lung diseases Thoracic oncology

Method(s) : Epidemiology General respiratory patient care Public health Pulmonary rehabilitation Physiology Cell and molecular biology Pulmonary function testing

Tag(s) : Clinical

Chairs : Florin Dumitru Mihaltan (Bucuresti, Romania), Efthimios Zervas (Patra, Greece)

- PA5313 Vaping: A new trend of consumption among young people.**  
Daniel Enrique Vega Lizarazo (Malaga, Spain), Sara Sánchez Martin, María Mercedes Segura Romero, Eva Belén Cabrera César
- 
- PA5314 The role of calcium dysregulation in e-liquids or vaping associated alveolar type II epithelial cell injury**  
RUI ZHANG (Yinchuan, China), Lili Miao, Rob Onywnwoke
- 
- PA5315 Tobacco heaters, electronic cigarettes, hookahs, cannabis: really a safer alternative to cigarettes?**  
Iris Hohenadel (Sandhausen, Germany)
- 
- PA5316 Impact of heated tobacco products, e-cigarettes, and combustible cigarettes on small airways and arterial stiffness**  
Klaas F. Franzen (Luebeck, Germany), Isabel Buchwald, Annabelle Hauck, Paul Niklas Axt, Theresa Mohr, Henrik Watz, Frederik Trinkmann, Daniel Drömann
- 
- PA5317 Perception of electronic cigarette among young adolescents**  
Soukaina Hallouli (CASABLANCA, Morocco), Wiam El Khattabi, Hajar Arfaoui, Hasna Jabri, Hicham Afif
- 
- PA5319 MOTIVATION FOR USING HEAT-NOT-BURN TOBACCO DEVICES AND E-CIGARETTES IN UKRAINE**  
Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy
- 
- PA5320 TOBACCO PRODUCT USE AMONG YOUTH IN UKRAINE**  
Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy
- 
- PA5321 A qualitative study of Australian general practitioners on e-cigarettes as a smoking cessation aid**  
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Chris Barton
- 
- PA5322 Tobacco, alcohol and other drugs use among children in middle and high school**  
Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub Fehri
- 
- PA5323 Teenage problem gambling in Ireland – shared risk factors with tobacco, e-cigarette and cannabis use**  
Salome Sunday (Blackpool, Ireland), Luke Clancy, Joan Hanafin
- 
- PA5318 A comprehensive list of flavorings used in cigarettes**  
Efthimios Zervas (Patra, Greece), Manos Konstantinidis, Niki Matsouki, Chara Tsipa, Zoe Gareiou
- 
- PA5324 Knowledge, practices, and attitudes of general practitioners in the southern region of Morocco towards smoking**  
Aboubekr Imzil (Agadir, Morocco), Oussama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youness Essaid, Nada Boutbagha, Soufia Farhat, Houssame Ennaciri, Hanane Ikrou, Fatiha Bounoua, Khadija Ait Nasser, Houda Moubachir, Hind Serhane
- 
- PA5325 Tunisian physicians' knowledge of passive smoking**  
Ines Moussa (Bizerte, Tunisia), Sarra Ben Sassi, Hana Mrassi, Mariem Friha, Sara Trimech, Imen Sahnoun, Leila Douik El Gharbi
- 
- PA5327 Gender differences in smoking-attributable mortality (SAM) by region in Portugal**  
Sofia Belo Ravara (Covilhã, Portugal), Julia Rey-Brandariz, Esther López-Vizcaíno, María Isolina Santiago-Pérez, Alberto Ruano-Ravino, Cristina Candal-Pedreira, Leonor Lema-Varela, Nerea Mourino, Pedro Aguiar, Mónica Pérez-Ríos
- 
- PA5328 Environmental Awareness and Behavior of Smokers and Non-Smokers**  
Efthimios Zervas (Patra, Greece), Zoe Gareiou, Niki Matsouki, Chara Tsipa, Manos Konstantinidis
- 
- PA5329 The impact of tax increases on tobacco use among medical faculty students**  
Elif Dagli (Istanbul, Turkey), Murat Tuğberk Bakar, Buğra Arslan, Melike Duymaz, Ibrahim Serhat Karakuş, Zilan Polat, Tanzer Gezer, Pınar Ay
- 
- PA5330 Knowledge, attitude and practice of smoking vape among medical students in Karachi, Pakistan.**  
Eman Sheikh (Karachi, Pakistan), Ashok Kumar

**PA5331 Smoking cessation counselling: what do Tunisian medical trainees think?**  
Yosr Aloulou (Manouba, Tunisia), Hana Blibech, Mohamed Aymen Jebali, Houda Snene, Sameh Belhaj, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

**PA5332 Smoking Cessation Practices in a Level 3 Irish Hospital**  
Mary Mc Namee (Dublin 6, Ireland), Niamh Boyle, Caitlyn Paclibar, Eric Sheeran Purcell, Colm Quigley

PS-8 in poster area

Session 507

16:00 - 17:30

Poster session: SARS-CoV-2, tuberculosis, and breathlessness

Disease(s) : **Airway diseases** **Sleep and breathing disorders** **Thoracic oncology**

Method(s) : Epidemiology General respiratory patient care Imaging Public health Pulmonary function testing

Tag(s) : Clinical

Chairs : Morten Dahl (Køge, Denmark), Chair to be confirmed

**PA5333 Impact of Bronchial Asthma on COVID-19 Sequelae**  
Yu Nakatani (Kochi, Japan), Soko Numata, Kazuhumi Takamatsu, Akihito Yokoyama

**PA5334 Pulmonary phenotypes and COVID-19 evolution patterns during the first year of the pandemic**  
DAVIDE CHIMERA (Pisa, Italy), Francesco Pistelli, Sara Maio, Giovanna Manfredini, Elisa Iacopini, Salvatore Claudio Fanni, Leonardo Colligiani, Chiara Romei, Annalisa De Liperi, Sandra Baldacci, Antonio Fideli, Chiara Cappiello, Luca Visconti, Claudia Meschi, Laura Tavanti, Roberta Pancani, Guido Marchi, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabbrielli, Alessandro Celi, Laura Carrozzi

**PA5335 Associations between socioeconomic parameters and outcomes related to hospitalization with COVID-19.**  
Søren Sperling (Aarhus N, Denmark), Andreas Fløe, Steffen Leth, Charlotte Hyldgaard, Tina Gissel, Ayfer Topcu, Lars Kristensen, Lene Sønderkov Dahl, Søren Jensen-Fangel, Johannes Martin Schmid, Elisabeth Bendstrup

**PA5336 Altitude effect on COVID-19 mortality rate and case incidence in Peru, the country with the highest accumulated mortality rate worldwide**  
Valeria A. Castillo Uribe (Leipzig, Germany), Zoë L. Contreras Leon, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huayanay, Fernando R. Chu Rivera

**PA5337 Latitude impact on COVID-19 mortality rate and case incidence in Peru, the Andean country with the highest accumulated mortality rate worldwide**  
Betsabe Cucho (Lima, Peru), Valeria A. Castillo Uribe, Zoë L. Contreras Leon, Roberto Alfonso Accinelli, Leandro Huayanay, Fernando R. Chu Rivera

**PA5338 Shifting COVID-19 case incidence and mortality rate trends during the pandemic in Peru, the country with the highest mortality rate worldwide**  
Zoë Lucia Contreras Leon (Lima, Peru), Valeria A. Castillo Uribe, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huayanay, Fernando R. Chu Rivera

**PA5339 Long-term sequelae of post-COVID-19 subjects from 19 centres across India**  
Sundeeep Santosh Salvi (Pune (Maharashtra), India), Swapnil Gadhav, Mohankumar Thekkinkattil, Abhinav Chaudhary, Saily Bendre, Parthasarathi Bhattacharyya, B Archana, Malay Sarkar, Girija Nair, Deependra Kumar Rai, Abhay Uppe, Sonali Trivedi, Surya Kant Tripathi, Jitendra Ingole, D Sachin, Nitesh Gupta, Babaji Ghewade, Amit Tade, Mahavir Modi, Loveleen Sharma, Yuvraj Badhe, Pooja Bhalekar, Sapna Madas

**PA5340 The cost of primary care consultations associated with long COVID in non-hospitalised adults: a retrospective cohort study using UK primary care data**  
Jake Tufts, Dawit Zemedikun, Anuradhaa Subramanian, Naijie Guan, Krishna Gokhale, Puja Myles, Tim Williams, Tom Marshall, Melanie Calvert, Karen Matthews, Krishnarajah Nirantharakumar, Louise Jackson, Shamil Haroon

**PA5341 SARS-CoV-2 and risk of psychiatric hospital admission and use of psychopharmaceuticals: A nationwide registry study of 4,585,083 adult Danish citizens**  
Valdemar Rømer (Copenhagen, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Susanne Dam Nielsen, Zitta Barrella Harboe, Tor Biering-Sørensen, Theis Itenov, Jens-Ulrik Stæhr Jensen

**PA5342 The role of booster vaccination in decreasing COVID-19 age-adjusted case fatality rate: evidence from 32 countries**  
Jing Gao (Helsinki, Finland), Cui Zhou, Åsa Wheelock, Chutian Zhang, Jian Ma, Kaixing Dong, Zhichao Li, Wannian Liang, Lei Xu

**PA5343 Blood biomarkers and biological age among patients with long COVID**  
Shamil Haroon (Birmingham (West Midlands), United Kingdom), Anuradhaa Subramanian, Krishnarajah Nirantharakumar, Janet Lord, David C. Wraith

**PA5344 The effects Covid-19 had on the children of health care professionals**  
Ege Havlucu (Manisa, Turkey), Atalay Özkul, Deniz Kızılırmak

- PA5345** **IMPACT OF THE COVID19 PANDEMIC ON SURVIVAL OF PATIENTS WITH HOME MECHANICAL VENTILATION(HMV)**  
Alfredo Marín Muñiz (Castelldefels, Spain), Ana Córdoba Izquierdo, Mikel Sarasate Azkona, Eva Farrero Muñoz, Zara Vidales Sepúlveda, Lluís Mateu Gómez, Salud Santos Pérez, Enric Prats Soro
- PA5346** **Epidemiology of Respiratory Syncytial Virus in Germany before and during covid-19 pandemic**  
Svenja Loerch (Hamm, Germany), Frank Erdnuess, Thorsten Reineke, Beate Frerich, Wolfgang Kamin
- PA5347** **Post-pandemic seasonal dynamics in the frequency of hospitalized exacerbations and triggers in COPD**  
Hnin Wint Aung (Market Harborough, United Kingdom), Aye Aung, Hamish Mcauley, Omer Elneima, Cara Flynn, Tracy Thornton, Helen Evans, Christopher Brightling, Neil Greening
- PA5348** **The role of Low-Dose CT scan in the early diagnosis of malignant neoplasms of different localization.**  
Anna Kovchun (Sumy, Ukraine), Victor Kovchun, Vladyslava Kachkovska, Liudmyla Prystupa
- PA5349** **Sense of control association to breathlessness: an analysis of 30,000 men and women in the general population.**  
Max Olsson (Helsingborg, Sweden), Magnus Ekström
- PA5350** **Can machine learning improve predictive performance of long-term outcomes for adults with breathlessness?**  
Urvee Karsanji (London, United Kingdom), Michael C Steiner, Claire A Lawson, Emily Petherick, Rachael A Evans, Matthew Richardson
- PA5351** **Identifying the factors most strongly associated to breathlessness in the general population: an evaluation of 465 different factors using machine learning.**  
Max Olsson (Helsingborg, Sweden), Magnus Ekström
- PA5352** **Increasing Medical Research Council breathlessness scores are associated with longer hospital stays**  
Urvee Karsanji (London, United Kingdom), Vanessa N Brunelli, Slavica Kochovska, Diana Ferreira, Irina Kinchin, Magnus Ekström, Jennifer K Quint, Michael C Steiner, Rachael A Evans, David C Currow

## PS-9 in poster area

## Session 508

16:00 - 17:30

## Poster session: Nutrition, lifestyle and obesity in paediatric asthma and allergic rhinitis

Disease(s) : [Airway diseases](#) [Respiratory critical care](#)

Method(s) : Cell and molecular biology Epidemiology Pulmonary function testing Public health General respiratory patient care Respiratory intensive care

Tag(s) : Clinical

Chairs : Erick Forno (Indianapolis, United States), Samatha Sonnappa (London, United Kingdom)

- PA5353** **Asthma and atopy in overweight children**  
Valentina Cvejaska-Cholakovska (Skopje, North Macedonia), Emilija Vlashki, Vesna Velikj-Stefanovska
- PA5354** **Data-driven model links BMIz to gene expression in pediatric asthma**  
Vincent Dandenault (Montreal, Canada), Nehme Hachem, Ian M Adcock, Lars I. Andersson, Charles Auffray, Fan K Chung, Sven-Erik Dahlén, Bertrand De Meulder, Ratko Djukanovic, Peter Howarth, Richard G Knowles, Norbert Krug, Amanda Roberts, Ana R Sousa, Peter J. Sterk, David Supple, Navin Rao, Graham Roberts, Mohib Uddin, Scott Wagers, Anke-Hilse Maitland-Van Der Zee, Cristina Longo
- PA5355** **Late Breaking Abstract - High flow humidified oxygen as an early intervention in children with acute severe asthma - a feasibility randomised controlled trial**  
Paul Seddon (West Sussex, United Kingdom), Hector Rojas-Anaya, Akshat Kapur, Graham Roberts, Damian Roland, Atul Gupta, Michaela Lazner, David James, Shane Fitzgerald, Fleur Cattle, Stephen Bremner
- PA5356** **Altered sphingolipid metabolism in childhood asthma and obesity**  
Antoniamy Belavendra (Doha, Qatar), Harshita Shailesh, Yahya Hani, Safa Noor, Lena Hasabelgavi, Mohammed Alfaki, Shana S Jacob, Saroja Kotegar Balayya, Stefan Worgall, Ibrahim Ahmed Janahi
- PA5357** **Examining the Longitudinal Association between Smoking Exposure, Atopic Indices, and Allergies during Early Childhood**  
Chih-Yung Chiu (Taoyuan, Taiwan), Ming-Han Tsai, Kuan-Wen Su, Kuo-Wei Yeh, Jing-Long Huang
- PA5358** **Clinical usefulness of Electrical Impedance Tomography (EIT) in the evaluation of obese asthmatic children' ventilation: a pilot case-control study**  
Youssra Belhaj (Milano, Italy), Simone Gambazza, Mara Lelii, Barbara Madini, Alessia Rocchi, Lucia Cerrato, Antonella Gambadauro, Marta Piotto, Maria Francesca Patria
- PA5359** **Maternal BMI and smoking as mediators in the maternal education – offspring asthma association in a register-based cohort**  
Cecilia Lundholm (Stockholm, Sweden), Emma Caffrey Osvald, Samuel Arthur Rhedin, Catarina Almqvist

- PA5360 Regular physical activity in children: Does it improve pediatric asthma?**  
Besma Hamdi (Tunis, Tunisia), senda derouiche, Sabrina Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Agnès Hamzaoui
- 
- PA5362 The impact of the paracetamol use on rhinitis prevalence**  
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Antonio Acevedo, Angel Lopez-Silvarrey, Maria-Teresa Seoane-Pillado, Francisco-Javier Salgado, Juan-Jose Nieto-Fontarigo, Sonia Pertega, Juan-Manuel Sanchez-Lastres, Miguel-Angel San-Jose, Luis Bamonde, Luciano Garmelo, Teresa Perez-Castro, Manuel Sampedro
- 
- PA5363 Neuropsychiatric adverse side-effects of montelukast in children – a Danish nationwide register study.**  
Louise Toennesen (København K, Denmark), Alexander Jordan, Josefin Eklof, Pradeesh Sivapalan, Astrid Sevelsted, Klaus Bønnelykke, Charlotte Suppli Ulrik, Jens-Ulrik Stæhr Jensen
- 
- PA5364 “Multi-omics” approach reveals new potential biomarkers in tears of asthmatic children**  
Marina Attanasi (Chieti (CH), Italy), Maria Concetta Cufaro, Laura Sgrazzutti, Beatrice Dufrusine, Ilaria Cicalini, Paola Di Filippo, Giulia Dodi, Sabrina Di Pillo, Francesco Chiarelli, Damiana Pieragostino
- 
- PA5365 Polysensitization in children: Clinical and allergenic characteristics**  
Hela Cherif (Tunis, Tunisia), Chaima Baya, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaous Yangui, Mohamed Ridha Charfi
- 
- PA5366 Difference in clinical characteristics between children and adults with allergen immunotherapy in Korea**  
Hyemi Jee (Seongnam, Republic of Korea), Ju Hee Kim, Young Hyo Kim, Jung-Won Park, Youngmin Ahn, Jeong-Hee Choi, Hye-Sung Baek, Mi-Ae Kim, Hwa Young Lee, Seon Tae Kim, Kyung Hee Park, Man Yong Han
- 
- PA5367 Asthmatic children with an early wheezing: A distinct phenotype?**  
Besma Hamdi (Tunis, Tunisia), Mohamed aymen Jebali, Sabrina Louhaichi, Siwar Rejeb, Synda Derouiche, Farah Garci, Hounaida Ben Zekri, Jamel Ammar, Agnes Hamzaoui
- 
- PA5368 Aerosol performance and sealing evaluation of new valved holding chamber face masks for babies and children**  
Yvonne Burmeister (Starnberg, Germany), Andrea Winzen, Karin Steinführer, Rosina Ledermüller
- 
- PA5369 Asthma in children and dust mite sensitization: what characteristics?**  
Besma Hamdi (Tunis, Tunisia), Siwar Rejeb, Hamdi Besma, Jebali Aymen, Derouiche Senda, Garci Farah, Ammar Jamel, Louhaichi Sabrina, Agnès Hamzaoui
- 
- PA5370 Use of air purifiers in homes to improve asthma outcomes for children: a pilot study protocol**  
Karl Holden (Liverpool, United Kingdom), Alice Lee, Daniel Hawcutt, Ian Sinha
- 
- PA5371 Late Breaking Abstract - Title: Association between Apgar-scores within normal range and development of asthma, allergy, and eczema in childhood: a Danish nationwide register study**  
Erik Sören Halvard Hansen (Lejre, Denmark), Hannah Kaiser, Kristine Tronier Hansen, Klaus Bønnelykke, Bo Chawes, Vibeke Backer, Charlotte Suppli Ulrik, Christian Torp-Pedersen, Nicklas Brustad
- 
- PA5372 Late Breaking Abstract - Clinical efficacy and satisfaction with a digital wheeze detector supporting the self-management of childhood wheeze**  
Yen Hoang Do (Berlin, Germany), Wim Van Aalderen, Ellen Dellbrügger, Claude Grenzbach, Jonathan Grigg, Eric Haarman, Bulent Karadag, Siri Roßberg, Tina-Maria Weichert, Abigail Whitehouse, Paolo Maria Matricardi, Stephanie Dramburg

**Gold Session 509 17:15 - 18:45**

**Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology**

**Chairs :** Ioannis Vogiatzis (Blyth, United Kingdom), Frits M.E. Franssen (Maastricht, Netherlands)

**17:15 Assembly members meeting: presentation, discussion and Q&A** **5373**  
Ioannis Vogiatzis (Blyth, United Kingdom)

**Silver Session 510 17:15 - 18:45**

**Assembly members' meeting: Assembly 2: Respiratory intensive care**

**Chairs :** Christian Karagiannidis (Cologne, Germany), João Carlos Winck (Vila Nova de Gaia, Portugal)

**17:15 Assembly members meeting: presentation, discussion and Q&A** **5374**  
Christian Karagiannidis (Cologne, Germany)

**Coral 4+5 Session 511 17:15 - 18:45**

**Assembly members' meeting: Assembly 4: Sleep disordered breathing**

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Esther Irene Schwarz (Zürich, Switzerland)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5375**  
Winfried J. Randerath (Solingen, Germany)

**Red 1+2** **Session 512** **17:15 - 18:45**

**Assembly members' meeting: Assembly 10: Respiratory infections**

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Onno Akkerman (Groningen, Netherlands)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5376**  
Eva Polverino (Barcelona, Spain)

**Coral 3** **Session 513** **17:15 - 18:45**

**Assembly members' meeting: Assembly 5: Airway diseases, asthma, COPD and chronic cough**

**Chairs :** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Florence Schleich (Liège, Belgium)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5377**  
Omar S. Usmani (London, United Kingdom)

**Brown 3** **Session 514** **17:15 - 18:45**

**Assembly members' meeting: Assembly 11: Thoracic oncology**

**Chairs :** Torsten Gerriet Blum (Berlin, Germany), Najib M. Rahman (ABINGDON, United Kingdom)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5378**  
Torsten Gerriet Blum (Berlin, Germany)

**Brown 1+2** **Session 515** **17:15 - 18:45**

**Assembly members' meeting: Assembly 12: Interstitial lung diseases**

**Chairs :** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5379**  
Katerina Antoniou (Heraklion, Greece)

**Blue 1+2** **Session 516** **17:15 - 18:45**

**Assembly members' meeting: Assembly 13: Pulmonary vascular diseases**

**Chairs :** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5380**  
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

**Yellow 1+2+3** **Session 517** **17:15 - 18:45**

**Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy**

**Chairs :** Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5381**  
Walter De Wever (Leuven, Belgium)

**Coral 1** **Session 518** **17:15 - 18:45**

**Assembly members' meeting: Assembly 7: Paediatrics**

**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada)

**17:15** **Assembly members meeting: presentation, discussion and Q&A** **5382**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

**Coral 2** **Session 519** **17:15 - 18:45**

**Assembly members' meeting: Assembly 6: Epidemiology and environment**

**Chairs :** Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Rafael E. de la Hoz (New York, United States)

17:15 **Assembly members meeting: presentation, discussion and Q&A** 5383  
Charlotte Suppli Ulrik (Virum, Denmark)

**Purple** **Session 520** **17:15 - 18:45**

**Assembly members' meeting: Assembly 9: Allied respiratory professionals**

**Chairs :** Daniel Langer (Leuven, Belgium), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

17:15 **Assembly members meeting: presentation, discussion and Q&A** 5384  
Daniel Langer (Leuven, Belgium)

**Amber 5+6** **Session 521** **17:15 - 18:45**

**Assembly members' meeting: Assembly 3: Basic and translational sciences**

**Chairs :** H. Irene Heijink (Groningen, Netherlands), Niki L. Reynaert (Maastricht, Netherlands)

17:15 **Assembly members meeting: presentation, discussion and Q&A** 5385  
H. Irene Heijink (Groningen, Netherlands)

**Amber 7+8** **Session 522** **17:15 - 18:45**

**Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation**

**Chairs :** Federica Meloni (Pavia (PV), Italy), Marcello Migliore (Riyadh, Saudi Arabia)

17:15 **Assembly members meeting: presentation, discussion and Q&A** 5386  
Federica Meloni (Pavia (PV), Italy)

**Studio (White) Session 523 08:30 - 09:20****Experts interview: Tobacco, e-cigarette and cannabis epidemic in youth / Indoor air pollution****Tag(s) :** Clinical**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

<b>08:30</b>	<b>Tobacco, e-cigarette and cannabis epidemic in youth</b> Elif Dagli (Istanbul, Turkey)	<b>5387</b>
<b>08:45</b>	<b>Discussion and Q&amp;A</b> All Speakers	<b>5388</b>
<b>08:55</b>	<b>Indoor air pollution</b> Onno C. P. van Schayck (Maastricht, Netherlands)	<b>5389</b>
<b>09:10</b>	<b>Discussion and Q&amp;A</b> All Speakers	<b>5390</b>

**09:00-10:15****INDUSTRY WEDNESDAY SPECIAL SESSION****SEE PAGE 1****Brown 1+2 Session 525 09:00 - 10:45****Wednesday special session: How to reduce the tobacco and e-cigarette epidemic in youth**

**Aims :** To provide insights into rapidly increasing prevalence of e-cigarettes, novel nicotine and tobacco products use among adolescents and youth in Italy, Europe and globally. To present the two latest 2023 ERS statements on Tobacco 21 and on Novel nicotine and tobacco products and harm reduction and brainstorm together with the session participants on their implications for both tobacco control and clinical field. To identify, using the example of Italy, existing regulation gaps and discuss how they should be tackled in the tobacco and nicotine endgame strategies to achieve tobacco-free generation goal.

**Tag(s) :** Clinical**Chairs :** Jonathan Grigg (London, United Kingdom), Silvano Gallus (Milano, Italy), Elif Dagli (Istanbul, Turkey)

<b>09:00</b>	<b>Tobacco 21 policies: addressing smoking and ENDS use in young people</b> Des Cox (Dublin, Ireland)	<b>5397</b>
<b>09:10</b>	<b>Brainstorming session: how to make 21+ tobacco approach a reality in Europe? Influencing national and EU agenda</b> Jonathan Grigg (London, United Kingdom)	<b>5398</b>
<b>09:40</b>	<b>Tackling the vaping scourge in schools</b> Helen Parks (Lisburn, United Kingdom), Julie McDonald (, United Kingdom)	<b>5399</b>
<b>09:45</b>	<b>ERS position on harm reduction and novel products</b> Filippos T. Filippidis (Rickmansworth, United Kingdom)	<b>5400</b>
<b>09:55</b>	<b>Trends in the use of electronic cigarettes, heated and smokeless tobacco in Italian youth</b> Silvano Gallus (Milano, Italy)	<b>5401</b>
<b>10:05</b>	<b>Tobacco-free generation and endgame in Europe</b> Florin Dumitru Mihaltan (Bucuresti, Romania)	<b>5402</b>
<b>10:15</b>	<b>Round table discussion: how to bridge existing regulation gaps in Italy and Europe?</b> Giuseppe Gorini (Firenze, Italy), Maria Sofia Cattaruzza (Roma (RM), Italy)	<b>5403</b>

**Brown 3 Session 526 09:45 - 12:45****Wednesday special session: How to build a successful, sustainable, international research network?****Collaboration, Impact, Empowerment**

**Aims :** This session, led by ERS Clinical Research Collaborations (CRC), and EU projects, draws upon the extensive experience of ERS membership and involvement of ERS and European Lung Foundation (ELF) in consortia. This session aims to explore the journey of building remarkable international research networks through key principles, effective strategies, and best practices, fostering cutting edge research with worldwide impact.

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Radiologist, Respiratory physiotherapist



**Chairs :** Salman Siddiqui (London, United Kingdom), David Drummond (Paris, France), Florence Schleich (Liège, Belgium)

09:45	<b>Introduction and welcome</b> All Speakers	5404
09:50	<b>How to build a great consortium: consortium building, stakeholder engagement</b> James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal)	5405
10:10	<b>Finding the right fit: defining your topic to fit with the hot topic of the time, addressing co-morbidities, working across disease areas</b> Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)	5406
10:30	<b>How to ensure your project has impact: awareness wider than the respiratory field, policy influence, public awareness</b> Herman Goossens (Edegem (Antwerp), Belgium), Rosa Faner Canet (Barcelona, Spain)	5407
10:50	<b>Getting involved in international research networks – patient and caregiver perspectives</b> Mikaela Odemyr (Järved, Sweden), Lucy Dixon (Buckingham, United Kingdom), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy)	5408
11:10	<b>How to gain the most value from data: how to collect, store and share</b> Celeste Michala Porsbjerg (Copenhagen, Denmark), Job F.M. van Boven (Groningen, Netherlands)	5409
11:30	<b>Key success factors for sustainability: long-term interest, funding and enthusiasm</b> Nadia Nathan (Paris, France), Ludger Grote (Göteborg, Sweden)	5410
11:50	<b>Lungs Europe – how we will support the respiratory community in the future</b> Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Salman Siddiqui (London, United Kingdom)	5411
12:05	<b>Networking – discussion on different tables on the different topics with the different speakers</b> James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany), Herman Goossens (Edegem (Antwerp), Belgium), Rosa Faner Canet (Barcelona, Spain), Nadia Nathan (Paris, France), Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Salman Siddiqui (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark), Job F.M. van Boven (Groningen, Netherlands), Lucy Dixon (Buckingham, United Kingdom), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy), Ludger Grote (Göteborg, Sweden)	5412

## Overflow area Session 527 09:45 - 12:15

### Wednesday special session: Women's networking event

#### Connect, collaborate, empower

**Aims :** This event aims to create a platform for respiratory professionals to connect, build relationships, and exchange knowledge and experiences. To encourage collaboration among women in the respiratory profession, fostering partnerships, teamwork, and the sharing of ideas and best practices. To empower women in the respiratory profession by offering career development resources, mentorship programs, and discussions on leadership and advancement opportunities. To highlight the importance of diversity and inclusion in the field of respiratory care, and encourage women from diverse backgrounds to participate and contribute to the event. To collaborate with relevant organisations, national societies, and industry partners.

**Chairs :** Monika Gappa (Düsseldorf, Germany)

09:45	<b>Overflow 1: Welcome</b> Monika Gappa (Düsseldorf, Germany), Judith Garcia-Aymerich (Barcelona, Spain)	5413
10:20	<b>Overflow 2: Academia - Women in Science</b> Sara Cuevas Ocaña (Nottingham, United Kingdom), Niki Ubags (Epalinges, Switzerland), Silke Meiners (Sülfeld, Germany), Zorana Andersen (Frederiksberg, Denmark)	5414
10:20	<b>Overflow 3: Academia - Women in Patient care/Healthcare</b> Monika Gappa (Düsseldorf, Germany), Arzu Yorgancıoğlu (Konak, Turkey), Ildikó Horváth (Budakeszi, Hungary), Snezhina Lazova (Sofia, Bulgaria)	5415
10:20	<b>Overflow 4: Women in Industry</b> Maria Gabriela Belvisi (Mölnådal, Sweden), Juby Anne Jacob-Nara (Hillsborough, United States), Sabine Bartel (Munich, Germany), Sara Jane Bonvini (London, United Kingdom), Tricia Finney-Hayward (London, United Kingdom)	5416
12:00	<b>Overflow 1: Conclusions and take home messages</b> All Speakers	5417

## Studio (White)

## Session 528

09:45 - 10:30

## Pro-Con debate: Is it clinically helpful to say someone has 'mild' asthma?

**Aims :** to discuss and consider what mild asthma represents and how to address it; to discuss how international guidelines, the Global Initiative for Asthma (GINA) and the National Asthma Education and Prevention Program (NAEPP) address the definitions of asthma control, asthma severity and future risks; to discuss the reality and perspective of mild asthma; to answer the question of whether the term 'mild' asthma has clinical utility or whether alternative terms are needed.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Epidemiology General respiratory patient care Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist

**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

09:45	<b>Yes, there is clinical utility in saying someone has 'mild' asthma</b> Florence Schleich (Liège, Belgium)	5418
10:00	<b>No, there is no clinical utility in saying someone has 'mild' asthma</b> Johann Christian Virchow (Rostock, Germany)	5419
10:15	<b>Discussion and Q&amp;A</b> All Speakers	5420

## Yellow 1+2+3

## Session 529

10:00 - 11:20

## Wednesday special session: Excellence in rare diseases care and research: the ERN-Lung initiative the ERN-Lung go East

**Aims :** to present the ERN-LUNG Network and highlight some of its assets achieved during the past years through funding and support by the European Commission and the ERS; to learn from participants about their expectations and needs to better tailor initiative offerings and to offer a better support; to present the following take home messages: 1) There is always someone who knows more about this rare disease than myself; 2) ERN-LUNG is the place where to find and get in contact with this Expert across all of Europe.

**Chairs :** Marc Humbert (Le Kremlin-Bicêtre, France), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

10:00	<b>What is ERN-LUNG?</b> Marc Humbert (Le Kremlin-Bicêtre, France), Marlies S. Wijsenbeek (Rotterdam, Netherlands)	5421
10:15	<b>How to get involved?</b> Gergely Meszaros (Vac, Hungary)	5422
10:25	<b>What can networking do for my patients?</b> Adam Torbicki (Otwock, Poland)	5423
10:40	<b>What can ERN-LUNG do for me?</b> Helge Hebestreit (Wuerzburg, Germany)	5424
10:55	<b>ERN-LUNG Academy?</b> Elisabeth Humbert-Dorfmueller (Frankfurt am Main, Germany)	5425
11:05	<b>ERN-LUNG Patients</b> Liam Galvin (Thurles, Ireland)	5426

## Blue 1+2

## Session 531

10:00 - 12:45

## Wednesday special session: Building support for clean air policies: empowering the respiratory community to advocate for clean air locally, nationally and internationally

**Aims :** To engage healthcare professionals and local NGOs with the Healthy Lungs for Life Clean Air campaign. To empower them in community and public engagement, helping them to communicate the necessity of clean air for good lung health in their own communities and to policy makers. To create a network of clean air advocates who can share best practice in engagement and support each other to present evidence from patients and healthcare professionals.

**Chairs :** Sergio Alfonso Harari (Milano (MI), Italy), Michael Len (Brussels, Belgium)

10:00	<b>Coffee and networking</b> All Speakers	5434
10:30	<b>Why clean air and why now? What is the latest evidence on clean air and lung health?</b> Barbara Hoffmann (Düsseldorf, Germany)	5435

10:45	<b>Why clean air and why now? Why it matters to respiratory patients?</b> Kjeld Hansen (Oslo, Norway)	5436
11:00	<b>Why is it important for Milan and Lombardy?</b> Francesco Forastiere (Roma (RM), Italy)	5436
11:15	<b>How can we achieve change: communication and events</b> Pippa Powell (Sheffield (South Yorkshire), United Kingdom)	5438
11:30	<b>How can we achieve change: working in partnership</b> Alessio Baù (, Italy)	5439
11:45	<b>How can we achieve change: From science to policy, how we can make an impact</b> Anne Stauffer (Brussels, Belgium)	5440
12:00	<b>How can we achieve change: creating your legacy</b> Anna Gerometta (Milano, Italy)	5441
12:15	<b>Call to action for clean air to Milan and Europe in light of the Ambient Air Quality Directive</b>	5449
12:25	<b>Multistakeholder panel discussion</b> All Speakers	5450

## Red 1+2 Session 530 10:30 - 12:45

### Wednesday special session: How can the International Respiratory Coalition help tackle pressures on respiratory healthcare systems?

**Aims :** This session looks at the increased pressure on health systems in specific areas – such as the impact of seasonal burdens and dealing with the respiratory consequences of wildfires, and considers what role the International Respiratory Coalition can have in tackling these pressures.

The International Respiratory Coalition (IRC) is a movement to transform respiratory outcomes in a post pandemic world. Led by the European Respiratory Society, the IRC is a multisectoral partnership bringing together the professional respiratory community, patients and industry. The IRC is currently supporting national-level coalitions, who have joined the movement, as they work towards developing/improving/implementing respiratory strategies based on best practice in their own countries.

**Chairs :** Guy F. Joos (Ghent, Belgium), Anita Simonds (London, United Kingdom)

10:30	<b>Introduction</b> All Speakers	5427
10:35	<b>Anticipating and coping with Seasonal respiratory burdens</b> Tobias Welte (Hannover, Germany)	5428
10:55	<b>Seasonal burdens: a global patient perspective</b> Tonya Winders (Hendersonville, United States)	5429
11:15	<b>The way forward in preventing and managing COPD exacerbations</b> Marc Miravittles (Barcelona (CT), Spain)	5430
11:35	<b>Assessing and caring for the respiratory consequences of wildfires</b> Christine Jenkins (McMahons Point (NSW), Australia)	5431
11:55	<b>Role of the International Respiratory Coalition</b> Carlos Robalo Cordeiro (Coimbra, Portugal)	5432
12:10	<b>Panel discussion: identifying needs and creating a strategy for national IRC coalitions</b> Judith Garcia-Aymerich (Barcelona, Spain), Kjeld Hansen (Oslo, Norway), Chantal Raheison-Semjen (Pointe-à-Pitre (Guadeloupe), France), Ellen Ricke (Hillegom, Netherlands), Chris Compton (Brentford, Middlesex, United Kingdom), Christine Harrison (Vernier, Switzerland)	5433

## Studio (White) Session 532 11:00 - 11:15

### News from the studio: Congress wrap-up

**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

11:00	<b>Discussion and Q&amp;A</b> All Speakers	5442
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ERS Stand/World Village	Session 80	09:00 - 09:30
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Session world village: ALAT World Village Session

09:00	ALAT World Village Session	705
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09:00	ALAT World Village Session	706
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ERS Stand/World Village	Session 81	09:45 - 10:15
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Session world village: KTS World Village Session

09:45	KTS World Village Session	707
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09:45	KTS World Village Session	708
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ERS Stand/World Village	Session 153	13:00 - 14:00
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Session world village: Meet with the ECMC representatives: ERS opportunities for ECMs/Basic and translational sciences (Assembly 3) within the ERS

**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), Matteo Bradicich (Zollikerberg, Switzerland), Amanda Dandanell Juul (Odense S, Denmark)

13:00	Meet with the ECMC representatives: ERS opportunities for ECMs/Basic and translational sciences (Assembly 3) within the ERS	1370
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ERS Stand/World Village	Session 91	15:00 - 15:30
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Session world village: SRP World Village Session

15:00	SRP World Village Session	727
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15:00	SRP World Village Session	728
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ERS Stand/World Village	Session 94	15:45 - 16:15
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Session world village: PCCP World Village Session

15:45	PCCP World Village Session	733
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15:45	PCCP World Village Session	734
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No Room	Session 82	16:30 - 17:00
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Session world village: TTS World Village Session

16:30	TTS World Village Session	709
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16:30	TTS World Village Session	710
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ERS Stand/World Village	Session 83	17:15 - 17:45
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Session world village: BeRS World Village Session

17:15	BeRS World Village Session	711
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17:15	BeRS World Village Session	712
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<b>ERS Stand/World Village</b>	<b>Session 273</b>	<b>12:00 - 13:00</b>
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Session world village: Meet with the ECMC representatives

**Chairs :** Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey), Karen Moor (Rotterdam, Netherlands)

**12:00 Meet with the ECMC representatives**

**2638**

<b>ERS Stand/World Village</b>	<b>Session 306</b>	<b>13:00 - 14:00</b>
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Session world village: Meet with the ECMC representatives: How to increase your visibility and network as ECM

**Chairs :** Susanne Vijverberg (Amsterdam, Netherlands), Joana Cruz (Leiria, Portugal), Thomas Gille (Bobigny, France)

**13:00 Meet with the ECMC representatives: How to increase your visibility and network as ECM**

**3094**

<b>ERS Stand/World Village</b>	<b>Session 85</b>	<b>15:00 - 15:30</b>
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Session world village: ARIR World Village Session

**15:00 ARIR World Village Session**

**715**

**15:00 ARIR World Village Session**

**716**

<b>ERS Stand/World Village</b>	<b>Session 84</b>	<b>17:15 - 17:45</b>
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Session world village: HTS World Village Session

**17:15 HTS World Village Session**

**713**

**17:15 HTS World Village Session**

**714**

<b>ERS Stand/World Village</b>	<b>Session 88</b>	<b>09:00 - 09:30</b>
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Session world village: JRS World Village Session

<b>09:00</b>	<b>JRS World Village Session</b>	<b>721</b>
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<b>09:00</b>	<b>JRS World Village Session</b>	<b>722</b>
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<b>ERS Stand/World Village</b>	<b>Session 89</b>	<b>09:45 - 10:15</b>
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Session world village: ATS World Village Session

<b>09:45</b>	<b>ATS World Village Session</b>	<b>723</b>
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<b>09:45</b>	<b>ATS World Village Session</b>	<b>724</b>
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<b>ERS Stand/World Village</b>	<b>Session 430</b>	<b>12:00 - 13:00</b>
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Session world village: Meet with the ECMC representatives: How to get involved in ERS activities as an Early Career Member

**Chairs :** Joana Cruz (Leiria, Portugal), Matteo Bradicich (Zollikerberg, Switzerland), Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey), Oriane Dumas (Villejuif, France)

<b>12:00</b>	<b>Meet with the ECMC representatives: How to get involved in ERS activities as an Early Career Member</b>	<b>4362</b>
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<b>ERS Stand/World Village</b>	<b>Session 90</b>	<b>15:00 - 15:30</b>
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Session world village: KATRD World Village Session

<b>15:00</b>	<b>KATRD World Village Session</b>	<b>725</b>
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<b>15:00</b>	<b>KATRD World Village Session</b>	<b>726</b>
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<b>ERS Stand/World Village</b>	<b>Session 92</b>	<b>15:45 - 16:15</b>
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Session world village: ASSOBRAFIR World Village Session

<b>15:45</b>	<b>ASSOBRAFIR World Village Session</b>	<b>729</b>
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<b>15:45</b>	<b>ASSOBRAFIR World Village Session</b>	<b>730</b>
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<b>ERS Stand/World Village</b>	<b>Session 93</b>	<b>16:30 - 17:00</b>
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Session world village: EPPS World Village Session

<b>16:30</b>	<b>EPPS World Village Session</b>	<b>731</b>
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<b>16:30</b>	<b>EPPS World Village Session</b>	<b>732</b>
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# INDUSTRY SESSIONS

No Room	Session	18:00 - 19:00
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Rehearsal: Opening Session rehearsal



**Coral 1** **Session 45** **07:15 - 08:15****Industry early morning symposium: On-Therapy Remission in Pediatric Asthma: Where Are We Today?***Organised by Sanofi Regeneron*

<b>07:15</b>	<b>Welcome</b> Giorgio Piacentini (Verona (VR), Italy)	<b>259</b>
<b>07:20</b>	<b>Progression of Underlying Disease in Pediatric Severe Asthma</b> Giorgio Piacentini (Verona (VR), Italy)	<b>260</b>
<b>07:35</b>	<b>Panel Discussion - All faculty</b> All Speakers	<b>261</b>
<b>07:45</b>	<b>Assessing Disease Activity to Better Define On-Treatment Clinical Remission in Pediatric Severe Asthma</b> Sharon Dell (Vancouver, British Columbia, Canada)	<b>262</b>
<b>08:05</b>	<b>Question and Answer - All faculty</b> All Speakers	<b>263</b>

**Purple** **Session 46** **07:15 - 08:15****Industry early morning symposium: Practical Advances in Front-Line Strategies for Optimizing Clinical Outcomes in MAC Lung Disease***Organised by Insmad***Chairs :** Christoph Lange (Borstel, Germany)

<b>07:15</b>	<b>Chair's Introduction and Program Overview</b> Christoph Lange (Borstel, Germany)	<b>264</b>
<b>07:30</b>	<b>The Critical Role of Longitudinal Microbiologic Monitoring in MAC Lung Disease: Guiding Antibiotic Selection, Route and Intensity Based on Systematic Microbiological Testing, Radiologic Findings, and Severity Score Indexes: The Potential Pitfalls of a "Watch and Wait" Approach in High-Risk Patients</b> Stefano Aliberti (Milano (MI), Italy)	<b>265</b>
<b>07:45</b>	<b>Translating ATS/IDSA/ERS/ESCMID Guideline-Directed Management Pathways and Clinical Trial Results in NTM-PD to the Front Lines of Patient Care: Focus on High-Risk Patients and Clinical Findings Predictive of Refractory MAC Pulmonary Disease</b> David E. Griffith (Denver, United States)	<b>266</b>
<b>08:00</b>	<b>Completing the Journey from Diagnosis to Cure in MAC Lung Disease: Practical Approaches to Ensure Drug Tolerant, Minimize Side Effects, and Optimize Regimen Adherence with Inhaled Antimicrobial Formulations—Translating Trial-Based Results to Real World, Side Effect-Mitigating Patient Care</b> Christoph Lange (Borstel, Germany)	<b>267</b>

**Amber 5+6** **Session 48** **08:00 - 08:45****Industry Skills Lab Workshop: Thoracic Ultrasound – pleural and emergency care. Practical expertise on how to carry out this everyday practice.***Organised by FUJIFILM***Chairs :** Vito Cianci (Padova, Italy)

<b>08:00</b>	<b>Hands On</b> Enrico Storti (Cremona, Italy), Mirko Zanatta (Valdagno, Italy)	<b>269</b>
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**Amber 7+8** **Session 49** **08:00 - 08:45****Industry Skills Lab Workshop: Clinical decisions for better Mask Management***Organised by Philips***Chairs :** Teofilo Lee-Chiong (Denver, United States)

<b>08:00</b>	<b>Impact of Mask Choice on CPAP therapy outcomes</b> Pedro Rodrigues Genta (São Paulo (SP), Brazil)	<b>270</b>
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<b>08:20</b>	<b>Clinical Cases</b> Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)	<b>271</b>
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<b>08:35</b>	<b>Hands on</b> Faycal Abdenbi (Goussainville, France)	<b>272</b>
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### Amber 5+6 Session 108 10:30 - 11:15

**Industry Skills Lab Workshop: Improving NIV management with deep dive into high resolution data**

*Organised by ResMed*

**Chairs :** Daniela Ehram-Tosi (Uster, Switzerland)

<b>10:30</b>	<b>The curves of AirView for ventilation and ResScan and how to interpret information</b> Claudia Crimi (Catania (CT), Italy)	<b>830</b>
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<b>10:48</b>	<b>How to discover any issues and when to consult ResScan</b> OLIVIER SAGNARD (Saint Priest, France)	<b>831</b>
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<b>11:00</b>	<b>Hands On</b>	<b>832</b>
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### Amber 7+8 Session 109 10:30 - 11:15

**Industry Skills Lab Workshop: Improving workflow using automated ventilation technologies in the hospital and home**

*Organised by Philips*

**Chairs :** Teofilo Lee-Chiong (Denver, United States)

<b>10:30</b>	<b>Hospital perspective: Improving workflow using automated ventilation technologies</b> Maxime Patout (Paris, France)	<b>833</b>
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<b>10:45</b>	<b>Home perspective: Improving workflow using automated ventilation technologies</b> Swapna Mandal (London, United Kingdom)	<b>834</b>
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<b>11:00</b>	<b>Hands On</b> Julie Yarascavitch (Encinitas, United States)	<b>835</b>
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### Gold Session 121 12:15 - 13:15

**Industry Lunchtime Symposium: Improving respiratory care by listening to patients needs**

*Organised by Chiesi Farmaceutici S.p.A.*

**Chairs :** Monica Kraft (New York, United States), Anne Greenough (London, United Kingdom)

<b>12:15</b>	<b>Welcome and Introduction</b> Mario Tozzi (, Italy)	<b>909</b>
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<b>12:25</b>	<b>From BPD to COPD: early origins of chronic lung diseases</b> Anne Greenough (London, United Kingdom)	<b>910</b>
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<b>12:35</b>	<b>Different approach in listening to people with respiratory diseases. The Human Factor Study</b> Nicola Scichilone (Palermo (PA), Italy)	<b>911</b>
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<b>12:55</b>	<b>How small airway diseases are relevant for the patients? Asthma and COPD insights</b> Monica Kraft (New York, United States)	<b>912</b>
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<b>13:05</b>	<b>Summary and close</b> Mario Tozzi (, Italy)	<b>913</b>
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### Silver Session 122 12:15 - 13:15

**Industry Lunchtime Symposium: Cardiopulmonary risk: a new perspective in COPD management**

*Organised by AstraZeneca*

**Chairs :** Mona Bafadhel (London, United Kingdom)

<b>12:15</b>	<b>Welcome, introduction and opening remarks</b> Mona Bafadhel (London, United Kingdom)	<b>914</b>
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12:17	<b>COPD through a different lens: the implications of COPD-driven cardiopulmonary risk</b> Paola Rogliani (Roma (RM), Italy)	915
12:32	<b>Panel discussion   Expanding our view of COPD: looking at the lungs and beyond</b> Daiana Stolz (Freiburg, Germany)	916
12:42	<b>Focusing on proactive management: preventing exacerbations and reducing mortality with triple therapy</b> Mona Bafadhel (London, United Kingdom)	917
12:58	<b>Reflections from a cardiologist: the importance of mortality reduction</b> Chris Gale (Leeds, United Kingdom)	918
13:03	<b>Panel discussion   Visualising the future: driving a proactive and multidisciplinary approach</b> Daiana Stolz (Freiburg, Germany)	919
13:13	<b>Summary and close</b> Mona Bafadhel (London, United Kingdom)	920

**Coral 4+5****Session 123****12:15 - 13:15****Industry Lunchtime Symposium: Clinical Remission: Reimagine the outcomes for Severe Asthma patients***Organised by GSK***Chairs :** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:15	<b>Welcome and introductions</b> Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	921
12:20	<b>Realising Clinical Remission: the true impact of delayed intervention</b> Tonya Winders (Hendersonville, United States), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	922
12:25	<b>Challenging the consensus: implementing a predict and prevent approach to care</b> Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Tonya Winders (Hendersonville, United States), Peter Gibson (Newcastle, Australia)	923
12:40	<b>Panel discussion: Clinical Remission: how do we make it happen in practice? - All faculty</b> All Speakers	924
12:55	<b>Anti-IL-5 in an evolving treatment paradigm</b> Enrico Marco Heffler (Milano, Italy)	925
13:10	<b>Summary and close</b> Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	926

**Coral 3****Session 124****12:15 - 13:15****Industry Lunchtime Symposium: The Importance of Pneumococcal Vaccination in Adult Patients with Pulmonary Disease***Organised by Pfizer***Chairs :** Francesco Blasi (Milan, Italy)

12:15	<b>Welcome and Opening Remarks</b> Francesco Blasi (Milan, Italy)	927
12:20	<b>The Public Health Impact of Pneumococcal Vaccination in Adults with Pulmonary Diseases</b> Eva Polverino (Barcelona, Spain)	928
12:40	<b>Making a Strong Recommendation for Pneumococcal Vaccination</b> Gernot G.U. Rohde (Frankfurt am Main, Germany)	929
13:00	<b>Faculty Discussion and Q&amp;A Session - All faculty</b> All Speakers	930
13:14	<b>Closing Remarks</b> Francesco Blasi (Milan, Italy)	931

**Coral 1** **Session 125** **12:15 - 13:15****Industry Lunchtime Symposium: From Theory to Practice: Improving COPD and Asthma Patients Care***Organised by Menarini group***Chairs :** Fabiano Di Marco (Milan, Italy)

<b>12:15</b>	<b>Introduction</b> Fabiano Di Marco (Milan, Italy)	<b>932</b>
<b>12:20</b>	<b>The Gold Standard for starting treatment in COPD</b> Claus Vogelmeier (Marburg, Germany)	<b>933</b>
<b>12:35</b>	<b>Inhaled corticosteroids in COPD: who and when?</b> Dave Singh (Manchester, United Kingdom)	<b>934</b>
<b>12:50</b>	<b>Optimal Strategies in Asthma Management</b> Kenneth R. Chapman (Toronto (ON), Canada)	<b>935</b>
<b>13:05</b>	<b>Q&amp;A - All faculty</b> All Speakers	<b>936</b>

**Coral 2** **Session 126** **12:15 - 13:15****Industry Lunchtime Symposium: The airway epithelium as an immune-functioning organ: A key driver in the pathogenesis of upper and lower respiratory disease***Organised by AstraZeneca***Chairs :** Celeste Michala Porsbjerg (Copenhagen, Denmark)

<b>12:15</b>	<b>Welcome &amp; Introduction</b> Celeste Michala Porsbjerg (Copenhagen, Denmark)	<b>937</b>
<b>12:18</b>	<b>The role of the airway epithelium as a critical immune-functioning organ</b> Celeste Michala Porsbjerg (Copenhagen, Denmark)	<b>938</b>
<b>12:28</b>	<b>Bronchial and nasal epithelium: are they the same?</b> Marco Caminati (Verona (VR), Italy)	<b>939</b>
<b>12:38</b>	<b>The epithelium: from pathogenesis to the clinic, and the use of biomarkers</b> Delbert Dorscheid (Vancouver (BC), Canada)	<b>940</b>
<b>12:48</b>	<b>The role of epithelial cytokines in asthma control and remission</b> Pascal Chanez (Marseille, France)	<b>941</b>
<b>12:58</b>	<b>Learnings from the epithelium: implications for patient care and future opportunities</b> Celeste Michala Porsbjerg (Copenhagen, Denmark)	<b>942</b>
<b>13:14</b>	<b>Symposium close</b> Celeste Michala Porsbjerg (Copenhagen, Denmark)	<b>943</b>

**Purple** **Session 127** **12:15 - 13:15****Industry Lunchtime Symposium: Mastering Integrated Respiratory Care: An expert-led interactive case study series, with a focus on vaccination***Organised by GSK***Chairs :** Claudio Micheletto (S.Giovanni Lupatoto, Italy)

<b>12:15</b>	<b>Welcome and introduction: importance of holistic approach to patient care</b> Claudio Micheletto (S.Giovanni Lupatoto, Italy)	<b>944</b>
<b>12:25</b>	<b>Case study 1: Your COPD patient</b> Barbara Yawn (Blaine, United States)	<b>945</b>
<b>12:37</b>	<b>Case study 2: Your Asthma patient</b> Tobias Welte (Hannover, Germany)	<b>946</b>

12:49	<b>Role of pulmonologists in the prevention of vaccine-preventable diseases</b> Rosario Menendez Villanueva (Valencia, Spain)	947
13:01	<b>Panel discussion and Q&amp;A session - All faculty</b> All Speakers	948
13:11	<b>Summary and close</b> Claudio Micheletto (S.Giovanni Lupatoto, Italy)	949

### Industry Virtual Channel Session 149 12:45 - 13:45

#### Industry Virtual Symposium: Improving outcomes in hospitalised patients with COVID-19: Perspectives from across the disciplines

Organised by Gilead Sciences Europe Ltd

Chairs : Tobias Welte (Hannover, Germany)

12:45	<b>Welcome and introduction</b> Tobias Welte (Hannover, Germany)	1349
12:50	<b>Navigating the COVID-19 disease landscape</b> Eva Polverino (Barcelona, Spain)	1350
13:00	<b>How are data guiding the management of COVID-19?</b> Tobias Welte (Hannover, Germany), Robert Gottlieb (Dallas, United States)	1351
13:25	<b>Finding our way with individualised treatment - All faculty</b> All Speakers	1352
13:40	<b>Summary and meeting close</b> Tobias Welte (Hannover, Germany)	1353

### Brown 3 Session 150 12:45 - 13:45

#### Industry Lunchtime Symposium: Beyond Asthma Control in Severe Type 2 Asthma Management

Organised by Sanofi Regeneron

Chairs : Klaus F. Rabe (Kiel, Germany)

12:45	<b>Opening Remarks - All faculty</b> All Speakers	1354
12:50	<b>Understanding the Patient Phenotypes of Type 2 Asthma</b> Guy Brusselle (Ghent, Belgium)	1355
13:00	<b>Beyond Control With Dupilumab in Type 2 Asthma</b> Arnaud Bourdin (Montpellier Cedex 5, France)	1356
13:10	<b>Is Freedom From OCS-Dependence Possible? Review of the Evidence for Dupilumab</b> Klaus F. Rabe (Kiel, Germany)	1357
13:20	<b>Panel Discussion Reconsidering Long-Term Goals Beyond Control for Severe Asthma Management - All faculty</b> All Speakers	1358
13:30	<b>Audience Q&amp;A - All faculty</b> All Speakers	1359
13:40	<b>Closing Remarks - All faculty</b> All Speakers	1360

### Yellow 1+2+3 Session 152 12:45 - 13:45

#### Industry Lunchtime Symposium: Can the immune system be primed to prevent recurrent respiratory tract infections in children?

Organised by OM Pharma SA

Chairs : Susanna Esposito (Milano (MI), Italy)

12:45	<b>Welcome &amp; introduction</b> Susanna Esposito (Milano (MI), Italy)	1365
12:50	<b>Understanding the potential of bacterial lysates exposure for the prevention of childhood recurrent respiratory tract infections</b> Erika von Mutius (München, Germany)	1366
13:10	<b>Role of immunomodulation in children with recurrent respiratory tract infections and wheezing</b> Manuel Soto Martínez (San José, Costa Rica)	1367
13:30	<b>Summary &amp; concluding remarks</b> Susanna Esposito (Milano (MI), Italy)	1368
13:35	<b>Q&amp;A - All faculty</b> All Speakers	1369

**Amber 5+6****Session 161****14:00 - 14:45**

**Industry Skills Lab Workshop: The role of Eucapnic Voluntary Hyperpnea challenges in the diagnosis and management of lower airway dysfunction in physically active patients and athletes. The role of Eucapnic Voluntary Hyperpnea challenges in the diagnosis and management of lower airway dysfunction in physically active patients and athletes.**

*Organised by GANSHORN Medizin Electronic GmbH*

**Aims :** to inform people, to present studies

**Chairs :** John Dickinson (Canterbury, United Kingdom), James H. Hull (London, United Kingdom)

14:00	<b>Introduction of the Eucapnic Voluntary Hyperpnea (EVH) Test: How is the test done and what are the indications. Presentation of current scientific findings.</b> James H. Hull (London, United Kingdom)	1407
14:20	<b>Comparison of spirometry and oscillometry as a tool for grading the bronchoconstriction</b> John Dickinson (Canterbury, United Kingdom)	1408
14:30	<b>A Live-demonstration of the EucapSys EVH device, use of oscillometry as a diagnostic tool and the possibility for hands-on usage.</b> James H. Hull (London, United Kingdom)	1409

**Amber 7+8****Session 162****14:00 - 14:45**

**Industry Skills Lab Workshop: CPAP therapy and cardiovascular outcomes - what have we learned from real-life cohorts?**

*Organised by ResMed*

**Chairs :** Sophia E. Schiza (Heraklion, Greece), Andreas Palm (Uppsala, Sweden)

14:00	<b>CPAP therapy and cardiovascular outcomes.</b> Frédéric Gagnadoux (Orvault, France)	1410
14:18	<b>Phenotype and patient centric approaches with CPAP therapy</b> Raphael Heinzer (Lausanne, Switzerland)	1411

**Amber 5+6****Session 177****15:30 - 16:15**

**Industry Skills Lab Workshop: Make a Lung-Term Impact: Strengthen Your Procedure Skills in Interventional Pulmonology**

*Organised by OLYMPUS EUROPA SE & CO. KG*

**Chairs :** Mohammed Munavvar (Preston (Lancashire), United Kingdom), Ales Rozman (Golnik, Slovenia)

15:30	<b>EBUS-TBNA: Handling all procedure steps safely and efficiently</b> António Apolinário Bugalho De Almeida (Lisboa, Portugal)	1515
15:30	<b>Peripheral bronchoscopy: Plan, access and identify peripheral lesions for successful sampling</b> Ales Rozman (Golnik, Slovenia)	1516
15:30	<b>Emphysema and air leak treatment with EVIS X1: Elevating the standard of therapeutic interventions</b> Matthias Hecker (Gießen, Germany)	1517

15:30	<b>Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity</b> Mohammed Munavvar (Preston (Lancashire), United Kingdom)	1518
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### Amber 7+8 Session 178 15:30 - 16:15

**Industry Skills Lab Workshop: Innovative clinical practice in home HFT. Titration, follow up and best practice**

*Organised by ResMed*

**Chairs :** Patrick B. Murphy (Oxted (Surrey), United Kingdom)

15:30	<b>Evidence to practice</b> Claudia Crimi (Catania (CT), Italy)	1519
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15:48	<b>Clinical practice through case studies</b> Line Storgaard (Aabybro, Denmark)	1520
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16:06		1521
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16:24		1522
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### Coral 3 Session 205 17:30 - 19:00

**Industry evening symposium: A Journey Through the Spectrum of Pulmonary Fibrosis**

*Organised by Boehringer Ingelheim International GmbH*

**Chairs :** Luca Richeldi (Roma, Italy)

17:30	<b>Welcome and introduction</b> Luca Richeldi (Roma, Italy)	1969
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17:40	<b>Diagnosis and treatment of pulmonary fibrosis: where are we now?</b> Vincent Cottin (Lyon, France)	1970
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17:55	<b>Interstitial lung abnormalities: a call to action?</b> Sara Tomassetti (Florence, Italy)	1971
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18:10	<b>Progressive pulmonary fibrosis: the end of the spectrum?</b> Elisabetta Renzoni (London, United Kingdom)	1972
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18:25	<b>Research in pulmonary fibrosis: where are we going?</b> Fernando J. Martinez (New York, United States)	1973
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18:40	<b>Q&amp;A - All faculty</b> All Speakers	1974
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### Brown 1+2 Session 206 17:30 - 19:00

**Industry evening symposium: Advancing the Understanding of COPD: A Pathophysiological Perspective of Disease**

*Organised by Sanofi Regeneron*

**Chairs :** MeiLan K. Han (Ann Arbor, United States)

17:30	<b>Opening Remarks - All faculty</b> All Speakers	1975
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17:35	<b>COPD a Progressive Airway Disease Shaped by Exacerbations</b> Frank Sciurba (Pittsburgh, United States)	1976
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17:50	<b>Characterization of COPD: Emerging Phenotypes and Endotypes</b> MeiLan K. Han (Ann Arbor, United States)	1977
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18:05	<b>Panel Discussion Extending Beyond the Pink Puffer and Blue Bloater: What Role Do Novel Phenotypes Play in the Clinic? - All faculty</b> All Speakers	1978
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18:15	<b>Understanding Inflammatory Pathways Driving the Pathophysiology of COPD</b> Kenneth R. Chapman (Toronto (ON), Canada)	1979
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18:30	<b>Panel Discussion Knowledge to Practice: Type 2 Inflammation in COPD - All faculty</b> All Speakers	1980
18:40	<b>Closing Remarks - All faculty</b> All Speakers	1981
18:45	<b>Audience Q&amp;A - All faculty</b> All Speakers	1982

## Blue 1+2 Session 207 17:30 - 19:00

### Industry evening symposium: Respiratory care: How to optimize patient outcomes with environmental responsibility

Organised by Orion Pharma

Chairs : Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

17:30	<b>Welcome and introduction: The virtuous cycle of patient partnerships, improved outcomes, and sustainable respiratory care</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	1983
17:40	<b>Why climate change and environmental sustainability is everybody's problem</b> Rachel Huxley (Melbourne, Australia)	1984
17:50	<b>Q&amp;A discussion</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	1985
18:00	<b>How sustainable global pharmaceutical regulations are impacting supply chains: What this could mean for your patients</b> John Pritchard (Newtown Linford, United Kingdom)	1986
18:10	<b>Q&amp;A discussion</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	1987
18:15	<b>Combining sustainable interventions with optimal patient outcomes: Lessons learned from adult-onset asthma phenotypes</b> Hannu Kankaanranta (Seinäjoki, Finland)	1988
18:25	<b>The UK view on sustainable clinical decision-making in respiratory care</b> Alexander Wilkinson (Hertfordshire, United Kingdom)	1989
18:35	<b>The Nordic view on sustainable clinical decision-making in respiratory care</b> Christer Janson (Uppsala, Sweden)	1990
18:45	<b>Q&amp;A discussion</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	1991
18:55	<b>Summary and close</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	1992

## Yellow 1+2+3 Session 208 17:30 - 19:00

### Industry evening symposium: Hidden. Progressive. Deadly. PAH in patients with unexplained dyspnoea

Organised by Janssen Pharmaceutica NV

Chairs : Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)

17:30	<b>Welcome and introductions</b> Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)	1993
17:35	<b>Unravelling unexplained dyspnoea</b> Athénaïs Boucly (Le Kremlin Bicêtre, France)	1994
18:05	<b>Initial management and follow-up of PAH</b> Vasile Foris (Graz, Austria)	1995
18:25	<b>Individualising treatment in patients with PAH and comorbidities</b> David Kiely (Sheffield (South Yorkshire), United Kingdom)	1996



**18:50 Q&A and close**  
Sean Gainé (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland) **1997**

**Coral 1** **Session 209** **17:30 - 19:00**

**Industry evening symposium: What do the GOLD 2023 updated recommendations mean for your patients living with COPD?**

*Organised by GSK*

**Chairs :** Alberto Papi (Cona, Ferrara, Italy), Jadwiga Wedzicha (London, United Kingdom)

**17:30 Opening and introduction**  
Alberto Papi (Cona, Ferrara, Italy), Jadwiga Wedzicha (London, United Kingdom) **1998**

**17:35 GOLD 2023 update: Implications for pharmacological COPD management**  
Alberto Papi (Cona, Ferrara, Italy) **1999**

**17:50 Patient burden of living with COPD: Putting timely treatment optimisation into practice**  
Jadwiga Wedzicha (London, United Kingdom) **2000**

**18:00 Evolutions in molecular pharmacology to maximise patient benefits**  
Claus Vogelmeier (Marburg, Germany) **2001**

**18:15 Device selection principles in COPD management to optimise patient outcomes**  
David M. G. Halpin (Exeter, United Kingdom) **2002**

**18:25 From theory to practice: Real-world evidence of triple therapy in COPD management**  
David M. G. Halpin (Exeter, United Kingdom) **2003**

**18:40 Q&A - All faculty**  
All Speakers **2004**

**Coral 2** **Session 210** **17:30 - 19:00**

**Industry evening symposium: Severe asthma treatment paradigm change: how much further can we go after reducing OCS treatment?**

*Organised by AstraZeneca*

**Chairs :** Matteo Bonini (Rome, Italy)

**17:30 Chair's welcome**  
Matteo Bonini (Rome, Italy) **2005**

**17:35 Managing severe asthma: treatment guidelines and clinical perspectives**  
Renaud Louis (Liège, Belgium) **2006**

**17:45 RWE for severe asthma: background therapy patterns before and after biologic use**  
Cláudia Catarina Ferreira Chaves Loureiro (Coimbra, Portugal) **2007**

**18:05 Interactive discussion: how should the reduction of background treatment be approached in patients with well-controlled asthma? - All faculty**  
All Speakers **2008**

**18:35 Background treatment reduction: how far can we go in severe asthma?**  
Stephanie Korn (Mainz, Germany) **2009**

**18:50 Q&A and close**  
All Speakers **2010**

**Purple** **Session 211** **17:30 - 19:00**

**Industry evening symposium: Dr Jekyll and Mr Hyde: the two faces of bronchiectasis**

*Organised by Insméd Netherlands BV*

**Chairs :** Tobias Welte (Hannover, Germany)

**17:30 Introduction and patient case study overview**  
Tobias Welte (Hannover, Germany) **2011**

17:45	<b>Delving deeper into this patient's pathophysiology</b> Anne O'Donnell (Washington, United States)	2012
17:55	<b>Management of infection: the key driver of bronchiectasis</b> Charles Haworth (Cambridge, United Kingdom)	2013
18:10	<b>Bronchiectasis is an inflammatory condition</b> Eva Polverino (Barcelona, Spain)	2014
18:20	<b>Management of inflammation: the key driver of bronchiectasis</b> Pieter Goeminne (Bornem, Belgium)	2015
18:40	<b>Panel discussion &amp; summary - All faculty</b> All Speakers	2016

**Amber 5+6****Session 212****17:30 - 19:00****Industry evening mini symposium: Opening our Minds and Airways in Severe Lung Disease***Organised by Grifols***Chairs :** Francesco Blasi (Milan, Italy)

17:30	<b>Welcome and introduction</b> Francesco Blasi (Milan, Italy)	2017
17:35	<b>NCFBE- What to do when things get tricky?</b> Francesco Blasi (Milan, Italy)	2018
17:53	<b>Severe asthma and AATD- Cause or comorbidity?</b> Laura Pini (Brescia (BS), Italy)	2019
18:11	<b>Alpha-1 Antitrypsin deficiency- What's around the bend?</b> Jose Luis López-Campos Bodineau (Sevilla, Spain)	2020
18:29	<b>Pulmonary rehabilitation: Old questions- new answers!?</b> Andreas Rembert Koczulla (Schönau am Königssee, Germany)	2021
18:47	<b>Final discussion</b> Francesco Blasi (Milan, Italy)	2022
18:55	<b>ALTA-award ceremony</b> Marion Trautmann (Frankfurt am Main, Germany)	2023
18:58	<b>Summary and Close</b> Francesco Blasi (Milan, Italy)	2024

**Amber 7+8****Session 213****17:30 - 19:00****Industry evening mini symposium: Timing is key: Unlocking the tools to identify progression and improve outcomes in cystic fibrosis***Organised by Vertex Pharmaceuticals (Europe) Ltd***Chairs :** Stefano Aliberti (Milano (MI), Italy)

17:30	<b>Chair's welcome and introduction</b> Stefano Aliberti (Milano (MI), Italy)	2025
17:40	<b>From the beginning: Early manifestations of CF</b> Maria Carmen Luna-Paredes (Madrid, Spain)	2026
17:55	<b>Through the ages: Tracking lung disease</b> Mirjam Stahl (Berlin, Germany)	2027
18:15	<b>Futureproofing CF care in the pulmonology department: A view from Italy</b> Andrea Gramegna (Milano (MI), Italy)	2028
18:35	<b>Panel discussion and Q&amp;A Looking to the future: The evolving needs of CF - All faculty</b> All Speakers	2029

**18:55** **Summary and close**  
Stefano Aliberti (Milano (MI), Italy)

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**2030**

**Amber 7+8** **Session 216** **08:00 - 08:45****Industry Skills Lab Workshop: East meets West - global best practices***Organised by Erbe Elektromedizin GmbH***Chairs :** Pallav L. Shah (London, United Kingdom), Jürgen Hetzel (, Switzerland)

<b>08:00</b>	<b>Hands on</b> <b>2 x transbronchial cryobiopsy, 2 x central airway obstruction</b> Jürgen Hetzel (, Switzerland), Pallav L. Shah (London, United Kingdom)	<b>2032</b>
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**Amber 5+6** **Session 262** **10:30 - 11:15****Industry Skills Lab Workshop: The indication of use of ASV therapy, from evidence to clinical practice***Organised by ResMed***Chairs :** Anita Simonds (London, United Kingdom), Holger Woehrle (Ulm, Germany)

<b>10:30</b>	<b>What evidence-based medicine says about ASV therapy</b> Michael Arzt (Regensburg, Germany)	<b>2564</b>
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<b>10:48</b>	<b>The indication of use of ASV therapy</b> Jean-Louis Pépin (Grenoble, France)	<b>2565</b>
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**Amber 7+8** **Session 263** **10:30 - 11:15****Industry Skills Lab Workshop: A virtual based approach to improve CPAP Therapy***Organised by Philips***Chairs :** Stefania Redolfi (Cagliari, Italy)

<b>10:30</b>	<b>Introduction to CPAP Therapy and Telemedicine</b> Stefania Redolfi (Cagliari, Italy)	<b>2566</b>
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<b>10:35</b>	<b>Improving sleep apnea management using technological advancements</b> Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)	<b>2567</b>
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<b>11:00</b>	<b>Hands On</b> Faycal Abdenbi (Goussainville, France), Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)	<b>2568</b>
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**Gold** **Session 274** **12:15 - 13:15****Industry Lunchtime Symposium: Transforming asthma care for a broad population of severe asthma patients***Organised by AstraZeneca***Chairs :** Enrico Marco Heffler (Milano, Italy)

<b>12:15</b>	<b>The next era in severe asthma management</b> Enrico Marco Heffler (Milano, Italy)	<b>2639</b>
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<b>12:20</b>	<b>The role of TSLP in driving severe asthma</b> Celeste Michala Porsbjerg (Copenhagen, Denmark)	<b>2640</b>
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<b>12:35</b>	<b>Targeting TSLP in severe asthma</b> Michael E. Wechsler (Denver, United States)	<b>2641</b>
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<b>12:50</b>	<b>Clinical experience with targeting TSLP - All faculty</b> All Speakers	<b>2642</b>
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<b>13:05</b>	<b>Audience Q&amp;A and close</b> Enrico Marco Heffler (Milano, Italy)	<b>2643</b>
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**Silver** **Session 275** **12:15 - 13:15****Industry Lunchtime Symposium: Targeting COPD With Type 2 Inflammation: Emerging Biologic Landscape***Organised by Sanofi Regeneron*

**Chairs :** Klaus F. Rabe (Kiel, Germany)

12:15	<b>Welcome and Objectives</b> Klaus F. Rabe (Kiel, Germany)	2644
12:20	<b>Contextualizing Clinical Consequences of COPD Through Disease Pathology</b> Klaus F. Rabe (Kiel, Germany)	2645
12:30	<b>Heterogeneity of Inflammatory Pathways in COPD</b> Stephanie Christenson (San Francisco, United States)	2646
12:40	<b>The Evolving Clinical Landscape in COPD and Implications for Disease Management</b> Dave Singh (Manchester, United Kingdom)	2647
13:00	<b>Panel Discussion and Q&amp;A - All faculty</b> All Speakers	2648

### Coral 4+5

### Session 276

12:15 - 13:15

#### Industry Lunchtime Symposium: The next phase in proactive asthma management? Steps towards patient-focused personalised care

*Organised by GSK*

**Chairs :** Anurita Majumdar (Singapore, Singapore)

12:15	<b>Introduction and welcome</b> Anurita Majumdar (Singapore, Singapore)	2649
12:20	<b>Unmet needs in asthma management: APPARENT calls for progress</b> Kenneth R. Chapman (Toronto (ON), Canada)	2650
12:35	<b>Clinical views on asthma control: Patient traits that affect treatment fates</b> Gabriel Garcia (Ciudad Autónoma Buenos Aires, Argentina)	2651
12:50	<b>Exploring patient factors: Personalising asthma care through shared decision-making</b> Kim Lavoie (Montréal (QC), Canada)	2652
13:00	<b>Q&amp;A - All faculty</b> All Speakers	2653
13:10	<b>Summary and close</b> Anurita Majumdar (Singapore, Singapore)	2654

### Coral 3

### Session 277

12:15 - 13:15

#### Industry Lunchtime Symposium: Pulmonary Arterial Hypertension in the Patient with Comorbidities

*Organised by MSD*

**Chairs :** Stephan Rosenkranz (Köln, Germany)

12:15	<b>Outcomes in PAH patients with comorbidities</b> Marius M. Hoeper (Hannover, Germany)	2655
12:25	<b>Characteristics and treatment of the PAH patient with comorbidities- US perspective</b> Mardi Gomberg-Maitland (Chicago, United States)	2656
12:35	<b>Relevance of comorbidities on initial combination therapy in pulmonary arterial hypertension</b> Roberto Badagliacca (Rome, Italy)	2657
12:45	<b>Challenges faced in clinical decision making when PAH patients present with cardiopulmonary comorbidities</b> Jean-Luc Vachiery (Bruxelles, Belgium)	2658
12:55	<b>ESC/ERS perspective on the treatment algorithm of the PAH patient with comorbidities</b> Stephan Rosenkranz (Köln, Germany)	2659
13:00	<b>Round Table Q&amp;A/discussion</b> Stephan Rosenkranz (Köln, Germany)	2660

## Coral 1

## Session 278

12:15 - 13:15

**Industry Lunchtime Symposium: IL-5 inhibition: An airways disease-modifying strategy?***Organised by GSK***Chairs :** Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)

12:15	<b>Welcome</b> Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)	2661
12:20	<b>IL-5 and eosinophil interactions in asthma disease progression</b> Kathleen Buchheit (Boston, United States)	2662
12:30	<b>The impact of IL-5 on structural airway remodelling in asthma</b> Konstantinos Porpodis (Thessaloniki, Greece)	2663
12:40	<b>The impact of IL-5 on mucus plugging in asthma</b> Jens Vogel-Claussen (Hannover, Germany)	2664
12:50	<b>The impact of IL-5 on lung function in asthma</b> Salman Siddiqui (London, United Kingdom)	2665
13:00	<b>Q&amp;A and concluding comments</b> Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)	2666

## Coral 2

## Session 279

12:15 - 13:15

**Industry Lunchtime Symposium: Early-stage NSCLC: ensuring effective, personalised treatment through accurate diagnoses***Organised by AstraZeneca***Chairs :** Kostas Syrigos (Athens, Greece)

12:15	<b>Welcome and introduction</b> Kostas Syrigos (Athens, Greece)	2667
12:20	<b>Case study 1: Maximising early detection of lung cancer: enhancing screening approaches</b> Neal Navani (London, United Kingdom)	2668
12:30	<b>Case study 2: Optimising diagnostic workup of early-stage NSCLC</b> Stefan Barath (Staffanstorp, Sweden)	2669
12:40	<b>Case study 3: The importance and impact of accurate clinical staging of lung cancer</b> Lina Zuccatosta (Torrette (AN), Italy)	2670
12:50	<b>Panel discussion and Q&amp;A - All faculty</b> All Speakers	2671

## Purple

## Session 280

12:15 - 13:15

**Industry Lunchtime Symposium: The future is now: Envisioning the implementation of digital healthcare into the clinical management of asthma and COPD***Organised by Teva***Chairs :** Stephen Holmes (Somerset, United Kingdom)

12:15	<b>Welcome address, housekeeping, opening with interactivity</b> Stephen Holmes (Somerset, United Kingdom)	2672
12:20	<b>Digital technologies and health economics – what is there to gain?</b> Job F.M. van Boven (Groningen, Netherlands)	2673
12:30	<b>Discussion - All faculty</b> All Speakers	2674
12:35	<b>Unpacking the theory – what does the data tell us?</b> Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)	2675
12:45	<b>Discussion - All faculty</b> All Speakers	2676

12:50	<b>Clinical experience – what have we seen so far?</b> Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)	2677
13:00	<b>Audience Q&amp;A - All faculty</b> All Speakers	2678
13:10	<b>Closing address, closing interactivity</b> Stephen Holmes (Somerset, United Kingdom)	2679

### Brown 3 Session 302 12:45 - 13:45

#### Industry Lunchtime Symposium: Anti-Inflammatory Reliever (AIR): it's time to take action

*Organised by AstraZeneca*

**Chairs :** Christine Jenkins (McMahons Point (NSW), Australia)

12:45	<b>Welcome and introduction</b> Christine Jenkins (McMahons Point (NSW), Australia)	3073
12:55	<b>Global strategy for the prevention and management of asthma</b> Eric D. Bateman (Cape Town, South Africa)	3074
13:05	<b>Keynote session: ICS-formoterol Anti-Inflammatory Reliever (AIR)</b> Richard Beasley (Wellington, New Zealand)	3075
13:15	<b>Improving asthma care through implementation of the SENTINEL program: findings from the pilot site</b> Michael Crooks (East Riding of Yorkshire, United Kingdom)	3076
13:25	<b>A call to action: time to change the SABA culture</b> Alberto Papi (Cona, Ferrara, Italy)	3077
13:35	<b>Q&amp;A session and close - All faculty</b> All Speakers	3078

### Brown 1+2 Session 303 12:45 - 13:45

#### Industry Lunchtime Symposium: Adapting to the new normal: COVID-19 strategies to help transform patient care

*Organised by Pfizer*

**Chairs :** Francesco Blasi (Milan, Italy)

12:45	<b>Welcome and introduction</b> Francesco Blasi (Milan, Italy)	3079
12:50	<b>The risk is still there: The ongoing burden of COVID-19</b> Francesco Blasi (Milan, Italy)	3080
13:00	<b>Helping to protect against the risk: The role of adapted COVID-19 vaccines</b> Gili Regev-Yochay (Boston, United States)	3081
13:15	<b>Strategies for populations at increased risk: The role of COVID-19 treatment</b> Rosario Menendez Villanueva (Valencia, Spain)	3082
13:30	<b>Panel Q&amp;A session: COVID-19: What role can respiratory experts play? - All faculty</b> All Speakers	3083
13:40	<b>Closing remarks</b> Francesco Blasi (Milan, Italy)	3084

### Blue 1+2 Session 304 12:45 - 13:45

#### Industry Lunchtime Symposium: Pulmonary Hypertension associated with Interstitial Lung Disease: Are we ready for the challenge?

*Organised by Ferrer*

**Chairs :** David Kiely (Sheffield (South Yorkshire), United Kingdom)

12:45	<b>Introduction</b> David Kiely (Sheffield (South Yorkshire), United Kingdom)	3085
12:50	<b>When the ILD patient gets more symptomatic - consider PH!</b> Michael Kreuter (Heidelberg, Germany)	3086
13:10	<b>PH-ILD treatment: why, who and how?</b> David Montani (Le Kremlin-Bicêtre, France)	3087
13:30	<b>Discussion - All faculty</b> All Speakers	3088

## Yellow 1+2+3 Session 305 12:45 - 13:45

### Industry Lunchtime Symposium: Rethinking MAC lung disease treatment and care

Organised by *Insmad*

**Chairs :** Michael Loebinger (London, United Kingdom)

12:45	<b>Meet our expert faculty</b> All Speakers	3089
12:50	<b>Why should we test our patients for MAC lung disease? - All faculty</b> All Speakers	3090
13:05	<b>Why you shouldn't wait longer than six months for culture conversion - All faculty</b> All Speakers	3091
13:20	<b>How should you treat your patients with limited treatment options? - All faculty</b> All Speakers	3092
13:35	<b>Looking to the future - All faculty</b> All Speakers	3093

## Amber 5+6 Session 316 14:00 - 14:45

### Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis

Organised by *FUJIFILM*

**Chairs :** Andrea Claudio Comel (Peschiera del Garda (VR), Italy)

14:00	<b>Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis</b> Rossana Vigliarolo (Roma (RM), Italy), Kristtopher Richard Flores (Poggio Mirteto (RI), Italy)	3138
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## Amber 7+8 Session 317 14:00 - 14:45

### Industry Skills Lab Workshop: Mucus Management with Simeox therapy in non-CF Bronchiectasis: from hospital to home

Organised by *PhysioAssist*

**Chairs :** Wojciech Piotrowski (Łódź, Poland), Stefano Aliberti (Milano (MI), Italy)

14:05	<b>Simeox therapy in non-CF Bronchiectasis: Indications and Recommendations</b> Joanna Miłkowska-Dymanowska (Łódź, Poland)	3139
14:15	<b>Non-CF Bronchiectasis patients treated with Simeox therapy at Hospital and Home: Results of Multicentric Study</b> Aleksander Kania (Kraków, Poland)	3140
14:25	<b>Importance of Mucus Clearance in Non-CF Bronchiectasis: Clinical Cases</b> Vittoria Comellini (Bologna (BO), Italy)	3141
14:35	<b>Simeox Hands-on / Live Demonstration</b>	3142



Amber 5+6

Session 332

15:30 - 16:15

## Industry Skills Lab Workshop: Healthcare Freudenfreude: How Data from Clinically-Proven Digital Health Tools Put Patients, Providers, and Pharma on the Same Team

Organised by Propeller Health

**Aims :** A harmonious, resilient healthcare ecosystem relies on a few critical pieces to function: the patient must be central, benefits must be mutual, and data must be collected and shared with care and intention. Digital health tools, specifically those that are connected to pharmaceutical products, are uniquely positioned to be a force to make this ecosystem work as intended.

Critical to such a symbiotic relationship is reliable, secure data flow. When a digital health tool collects patient data – demographic and relevant social or cultural information, behavior patterns, adherence trends, digital biomarkers, and quality of life indicators – and then aggregates, analyzes, and shares insights relevant to healthcare professionals (HCPs), insurers, and other stakeholders, the entire ecosystem is empowered to make informed decisions that maintain patient-centricity.

Propeller's platform has mastered this delicate balance, drawing from 10+ years of learnings in research and commercial settings:

A connected drug delivery experience (sensors or devices and patient engagement software) passively captures patient behavior data and provides actionable insights

With access to patient behavior and health data, HCPs can solve for care gaps, make more informed treatment decisions including readiness for step-up-therapy, intervene before exacerbations send their patients to the ER, and improve quality metrics

Pharmaceutical companies generate data for real-world evidence, strengthen their value to all patients, HCPs, and insurers), and create market differentiation

And all the while, patients are surrounded with the insights, motivation, and support they need to create healthy habits, better understand their condition and treatment options, and improve their quality of life

Designing for the ecosystem – with patients at the center – enables Propeller's digital therapeutic platform to create quantifiable impact, evidenced by patient adoption, engagement, and clinical outcomes, while providing healthcare professionals and pharmaceutical companies with advanced insights and levers to improve health outcomes.

**Chairs :** Yury Rozenman (Madison, United States)

### Real evidence, real impact: Boosting commercial value with digital programs that accelerate patient and physician outcomes

15:30

Yury Rozenman (Madison, United States), Susa Monacelli (San Diego, United States), VJ Bala (San Diego, United States), Thomas Brown (Portsmouth, Hampshire, United Kingdom)

3244

Amber 7+8

Session 333

15:30 - 16:15

## Industry Skills Lab Workshop: How to implement patient feedback in CPAP therapy

Organised by ResMed

**Chairs :** Tarja Saaresranta (Littoinen, Finland), Kimberly L. Sterling (Indianapolis, United States)

### The importance of patient feedback and Patient-Reported Outcome Measures in patient care management

15:30

Erna Sif Arnardóttir (Reykjavik, Iceland)

3245

### Early experiences of Care Check-In as a patient feedback tool in CPAP therapy

15:48

Sandrine Launois Rollinat (Paris, France)

3246

Gold

Session 360

17:30 - 19:00

## Industry evening symposium: The Active Airway and the Cough Reflex in Chronic Cough

Organised by MSD

**Chairs :** Federico Lavorini (Firenze (FI), Italy)

### Opening and Introduction to Chronic Cough

17:30

Federico Lavorini (Firenze (FI), Italy)

3681

### How the Airway Acts to Protect Itself: Cough is Fundamental

17:40

Jacky Smith (Manchester (Greater Manchester), United Kingdom)

3682

### Extracellular ATP as an Alarmin: Mechanisms and Actions

17:55

Pablo Pelegrin (Murcia, Spain)

3683

### Chronic Cough and Refractory Chronic Cough: Extracellular-ATP Cough Signal

18:05

Lorcan McGarvey (Belfast, United Kingdom)

3684

**18:20 Q&A and panel discussion** **3685**  
 Federico Lavorini (Firenze (FI), Italy)

**Coral 3** **Session 361** **17:30 - 19:00**

**Industry evening symposium: Understanding and managing RSV's impact on older adults with respiratory conditions – clinician and patient perspectives**

*Organised by GSK*

**Chairs :** Alberto Papi (Cona, Ferrara, Italy)

**17:30 Welcome and introduction** **3686**  
 Alberto Papi (Cona, Ferrara, Italy)

**17:35 “Who’s at risk?”** **3687**  
 Janwillem W. H. Kocks (Groningen, Netherlands)

**17:50 Patient perspectives** **3688**  
 Ruth Tal-Singer (Media, United States)

**18:05 Prevention of RSV-LTRD** **3689**  
 Alberto Papi (Cona, Ferrara, Italy)

**18:35 Q&A panel discussion - All faculty** **3690**  
 All Speakers

**Yellow 1+2+3** **Session 362** **17:30 - 19:00**

**Industry evening symposium: COPD and quality of life, beyond symptoms and exacerbations**

*Organised by Menarini Group*

**Chairs :** Marc Miravittles (Barcelona (CT), Spain)

**17:30 Chairman’s introduction** **3691**  
 Marc Miravittles (Barcelona (CT), Spain)

**17:40 LABA/LAMA combination: not just a simple bronchodilation** **3692**  
 Claudio Micheletto (S.Giovanni Lupatoto, Italy)

**18:05 Is it time for a more holistic approach in COPD?** **3693**  
 Jutta Beier (Wiesbaden, Germany)

**18:30 Chairman’s take home messages and conclusions** **3694**  
 Marc Miravittles (Barcelona (CT), Spain)

**18:50 Q&A** **3695**  
 All Speakers

**Coral 1** **Session 363** **17:30 - 19:00**

**Industry evening symposium: Treatable Traits: Realising personalised care in airways diseases**

*Organised by GSK*

**Chairs :** Vanessa M. McDonald (Newcastle (NSW), Australia)

**17:30 Welcome and introduction** **3696**  
 Vanessa M. McDonald (Newcastle (NSW), Australia)

**17:35 Winds of change in airways diseases** **3697**  
 Fernando J. Martinez (New York, United States)

**17:55 Treatable Traits in practice: Exploring the role of the multidisciplinary team** **3698**  
 Vanessa M. McDonald (Newcastle (NSW), Australia), Job F.M. van Boven (Groningen, Netherlands),  
 Fernando J. Martinez (New York, United States)

**18:25 Treatable Traits in action: What does success look like from a patient’s perspective?** **3699**  
 Samantha Walker (London, United Kingdom)

**18:45 Q&A - All faculty** **3700**  
 All Speakers

18:55	<b>Summary and close</b> Vanessa M. McDonald (Newcastle (NSW), Australia)	3701
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## Coral 2 Session 364 17:30 - 19:00

### Industry evening symposium: Climate change, infection and the airways in a post-pandemic world

*Organised by Haleon*

**Chairs :** Christopher Carlsten (Vancouver (BC), Canada)

17:30	<b>Toxic partnership of air pollution and climate change on respiratory health</b> Kian Fan Chung (London, United Kingdom)	3702
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17:50	<b>Climate Change: Changing Respiratory Health</b> Sundeep Santosh Salvi (Pune (Maharashtra), India)	3703
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18:10	<b>Respiratory infections in post pandemic era</b> Gary Wong (Shatin, Hong Kong)	3704
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18:30	<b>Key lessons, outstanding questions, and future directions regarding climate change, infections and respiratory health in a post-pandemic world</b> Christopher Carlsten (Vancouver (BC), Canada)	3705
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18:50	<b>Q&amp;A - All faculty</b> All Speakers	3706
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## Purple Session 365 17:30 - 19:00

### Industry evening symposium: Evolving Patient Care: From Symptom Control to On-Treatment Clinical Remission

*Organised by Sanofi Regeneron*

**Chairs :** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

17:30	<b>Welcome</b> Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	3707
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17:35	<b>Presentation of Patient Cases</b> Vibeke Backer (Copenhagen, Denmark)	3708
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17:40	<b>Advancing Asthma Management Beyond Symptom Control</b> Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	3709
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17:55	<b>Panel Discussion - All faculty</b> All Speakers	3710
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18:05	<b>How Achievable is Clinical Remission on Biologic Therapy?</b> Francesca Antonietta Puggioni (Rozzano (MI), Italy)	3711
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18:25	<b>Panel Discussion and Mini-debate - All faculty</b> All Speakers	3712
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18:40	<b>Type 2 Biomarkers as Predictive and Prognostic Tools to Guide Management</b> Vibeke Backer (Copenhagen, Denmark)	3713
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18:48	<b>Panel Discussion and Q&amp;A - All faculty</b> All Speakers	3714
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## Amber 5+6 Session 366 17:30 - 19:00

### Industry evening mini symposium: Shaping the future in rare lung diseases: From imaging to patient management

*Organised by CSL Behring GmbH*

**Chairs :** Marlies S. Wijssenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)

17:30	<b>Welcome and introduction to the faculty and symposium topics</b> Marlies S. Wijssenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)	3715
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17:32	<b>Identifying unmet needs in rare lung diseases</b> Luca Richeldi (Roma, Italy)	3716
17:40	<b>Challenges and progress in predicting disease trajectories. Part I: AATD</b> Noel Gerard McElvaney (Dublin, Ireland)	3717
17:50	<b>Challenges and progress in predicting disease trajectories. Part II: IPF</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands)	3718
18:00	<b>Camouflage: How asthma obscures the diagnosis of AATD</b> Filipa Costa (Coimbra, Portugal)	3719
18:10	<b>Discussion Part I</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)	3720
18:20	<b>Imaging challenges in lung fibrosis</b> Simon Walsh (London, United Kingdom)	3721
18:30	<b>New tools to advance imaging in rare lung diseases</b> Elizabeth Estes (Saugatuck, United States)	3722
18:40	<b>Implications for management of rare lung diseases</b> Luca Richeldi (Roma, Italy)	3723
18:50	<b>Discussion Part II</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)	3724
18:59	<b>Summary and closing remarks</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)	3725

Amber 7+8

Session 367

17:30 - 19:00

### Industry evening mini symposium: Unexplained ILDs and Rare Disease ASMD: Differential Diagnosis to Treatment

Organised by Sanofi

Chairs : Vincent Cottin (Lyon, France)

17:30	<b>Welcome and introduction</b> Vincent Cottin (Lyon, France)	3726
17:35	<b>Challenges and opportunities in recognising and managing patients with ILD</b> Vincent Cottin (Lyon, France)	3727
17:50	<b>ILDs: diagnostic pathways and differential diagnosis</b> Wim A. Wuyts (Leuven, Belgium)	3728
18:05	<b>Clinical evidence for the management of the rare disease ASMD</b> Maurizio Scarpa (Udine, Italy)	3729
18:20	<b>Pulmonologists perspective: management of pulmonary manifestations of the rare disease ASMD</b> Francesco Bonella (Düsseldorf, Germany)	3730
18:35	<b>Panel discussion, Q&amp;A - All faculty</b> All Speakers	3731

## Coral 1

## Session 370

07:15 - 08:15

## Industry early morning symposium: Pertussis Exposed: the challenges and conundrums of pertussis in adults

Organised by Sanofi

Chairs : Alberto Papi (Cona, Ferrara, Italy)

07:15	<b>Welcome and introduction</b> Alberto Papi (Cona, Ferrara, Italy)	3732
07:20	<b>Panel Discussion</b> Pertussis in adults: should we be concerned? - All faculty All Speakers	3733
07:30	<b>Panel Discussion</b> The coughing adult: is pertussis a consideration? - All faculty All Speakers	3734
07:40	<b>Panel Discussion</b> Epidemiological data on pertussis in adults: a chicken and egg conundrum? - All faculty All Speakers	3735
07:50	<b>Panel Discussion</b> Adult immunisation for pertussis control: what are the challenges? - All faculty All Speakers	3736
08:00	<b>Audience Q&amp;A - All faculty</b> All Speakers	3737

## Coral 2

## Session 371

07:15 - 08:15

## Industry early morning symposium: Quelling the Vicious Vortex: Targeting Neutrophil Serine Proteases in Non-Cystic Fibrosis Bronchiectasis

Organised by Insmad

Chairs : Doreen Addrizzo-Harris (New York, United States)

07:15	<b>Welcome and Introductions</b> Doreen Addrizzo-Harris (New York, United States)	3738
07:20	<b>Taking Stock of the Burden of NCFBE</b> Doreen Addrizzo-Harris (New York, United States)	3739
07:30	<b>On the Path to Early NCFBE Diagnosis: Identifying Risk Factors and Employing Current Guidelines</b> Pieter Goeminne (Bornem, Belgium)	3740
07:45	<b>Improving Upon the Current NCFBE Standard of Care: The Role of Emerging Therapies Aimed at Inhibiting NSP Activation</b> Stefano Aliberti (Milano (MI), Italy)	3741
08:05	<b>Panel Discussion, Audience Q&amp;A, and Closing Remarks - All faculty</b> All Speakers	3742

## Amber 7+8

## Session 373

08:00 - 08:45

## Industry Skills Lab Workshop: HUMIDIFIED HIGH FLOW - CLINICAL INNOVATIONS

Organised by FISHER&amp;PAYKEL SAS - FRANCE

Chairs : Stefano Nava (Bologna (BO), Italy)

08:00	<b>Effect of Asymmetric Cannula on PaCO<sub>2</sub> for stable COPD Patients</b> Lara Pisani (Bologna (BO), Italy)	3744
08:15	<b>Danish Respiratory Guidelines for long-term Humidified High Flow Treatment</b> Ulla Møller Weinreich (Ålborg, Denmark)	5443
08:35	<b>The role of HHF on secretion management</b> Claudia Crimi (Catania (CT), Italy)	

## Amber 5+6

## Session 418

10:30 - 11:15

## Industry Skills Lab Workshop: Interpretation of the Cardiopulmonary Exercise Test

Organised by *Vyaire Medical GmbH*

Chairs : Herman Groepenhoff (Lijnden, Netherlands)

10:30	<b>Interpretation of the Cardiopulmonary Exercise Test</b> Piergiuseppe Agostoni (Milan, Italy)	4286
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## Amber 7+8

## Session 419

10:30 - 11:15

## Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis”

Organised by *FUJIFILM*

Chairs : Rossana Vigliarolo (Roma (RM), Italy)

10:30	<b>Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis</b> Giuseppe Paciocco (Monza (MI), Italy), Krisstopher Richard Flores (Poggio Mirteto (RI), Italy)	4287
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## Coral 3

## Session 431

12:15 - 13:15

## Industry Lunchtime Symposium: Prioritising patient outcomes and reducing environmental burden: how both are achievable in respiratory care

Organised by *AstraZeneca*

Chairs : John R Hurst (London, United Kingdom), Helen Reddel (Sydney, Australia)

12:15	<b>Co-chairs' welcome and introduction</b> John R Hurst (London, United Kingdom)	4363
12:20	<b>Facing the challenges for healthcare in the 21st century: health equity, system resilience and the environment</b> Christine Jenkins (McMahons Point (NSW), Australia)	4364
12:35	<b>Paving the way for environmentally sustainable respiratory care</b> Alberto Papi (Cona, Ferrara, Italy)	4365
12:50	<b>Ensuring access to essential medicines: why partnership with governments and authorities is the only way to achieve patient-centric environmentally sustainable respiratory care</b> Omar S. Usmani (London, United Kingdom)	4366
13:05	<b>Audience Q&amp;A / summary and close - All faculty</b> All Speakers	4367

## Coral 1

## Session 432

12:15 - 13:15

## Industry Lunchtime Symposium: Making the right choice for your moderate asthma patients: What does the recent evidence say?

Organised by *GSK*

Chairs : Giorgio Walter Canonica (Milano (MI), Italy)

12:15	<b>Introduction and welcome</b> Giorgio Walter Canonica (Milano (MI), Italy)	4368
12:20	<b>First ICS/LABA regimen for your moderate asthma patients – is it an obvious choice?</b> Dave Singh (Manchester, United Kingdom)	4369
12:35	<b>What predicts exacerbation risk in real life? FF/VI vs other ICS-containing regimens</b> Pierluigi L. Paggiaro (Pisa (PI), Italy)	4370
12:50	<b>Putting evidence into practice – a discussion and summary</b> Giorgio Walter Canonica (Milano (MI), Italy)	4371
13:00	<b>Q&amp;A - All faculty</b> All Speakers	4372

## Coral 2

## Session 433

12:15 - 13:15

## Industry Lunchtime Symposium: Pneumococcal vaccination: Does one size fit all?

Organised by MSD

Chairs : Susanna Esposito (Milano (MI), Italy)

12:15	<b>Welcome and introduction</b> Susanna Esposito (Milano (MI), Italy)	4373
12:20	<b>Pneumococcal disease in children in the post-pandemic era</b> Susanna Esposito (Milano (MI), Italy)	4374
12:35	<b>Unique challenges of pneumococcal disease prevention in adults</b> Francesco Blasi (Milan, Italy)	4375
12:50	<b>Understanding population-specific needs in pneumococcal vaccination</b> Mark van der Linden (Aachen, Germany)	4376
13:05	<b>Discussion and closing remarks - All faculty</b> All Speakers	4377

## Brown 3

## Session 456

12:45 - 13:45

## Industry Lunchtime Symposium: What's new on ILD diagnosis. Are we ready for incorporating biology in the MDT discussion ?

Organised by Veracyte, Inc.

Chairs : Athol Wells (London, United Kingdom)

13:30	<b>Debate - All faculty</b> All Speakers	4770
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## Brown 1+2

## Session 457

12:45 - 13:45

## Industry Lunchtime Symposium: Pandemic preparedness and the potential role of mRNA technology

Organised by Pfizer

12:45	<b>Welcome and Introductions</b> Jennifer Nuzzo (Providence, United States)	4771
12:48	<b>Recent history and future of viral pandemics</b> Gavin Smith (Singapore, Singapore)	4772
13:03	<b>Lessons learned: COVID-19 case study</b> Eva Polverino (Barcelona, Spain)	4773
13:18	<b>mRNA technology and preparing for the future</b> John McLaughlin (Wayne, United States)	4774
13:33	<b>Q&amp;A session - All faculty</b> All Speakers	4775
13:43	<b>Conclusions and close</b> Jennifer Nuzzo (Providence, United States)	4776

## Yellow 1+2+3

## Session 459

12:45 - 13:45

## Industry Lunchtime Symposium: Breathing new life into acute respiratory care: proactively improving long-term outcomes

Organised by AstraZeneca

Chairs : David Price (Singapore, Singapore)

12:45	<b>Welcome and introduction</b> David Price (Singapore, Singapore)	4780
12:55	<b>Panel discussion: How can we address the burden of unplanned hospitalisations?</b> Mona Al-Ahmad (Kuwait, Kuwait)	4781

13:10	<b>Panel discussion: How can we integrate learnings from cardiology to improve hospital discharge and prevent readmission?</b> Mohit Bhutani (Edmonton (AB), Canada)	4782
13:25	<b>Panel discussion: Beyond acute care: how can we optimise transition of care?</b> David Price (Singapore, Singapore)	4783
13:40	<b>Summary and close</b> David Price (Singapore, Singapore)	4784

**Amber 7+8****Session 467****14:00 - 14:45****Industry Skills Lab Workshop: East meets West - global best practices***Organised by Erbe Elektromedizin GmbH***Chairs :** Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)

14:00	<b>Hands on</b> <b>2 x transbronchial cryobiopsy, 2 x central airway obstruction</b>	4825
	Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)	

**Amber 7+8****Session 482****15:30 - 16:15****Industry Skills Lab Workshop: HUMIDIFIED HIGH FLOW (HHF) - EXPANDING KNOWLEDGE***Organised by FISHER&PAYKEL SAS - FRANCE***Chairs :** Nicholas Hart (London, United Kingdom), Capucine Morelot-Panzini (Paris, France)

15:30	<b>HHF improves breathing efficiency in COPD patient recovering from exacerbation.</b> Lise Piquilloud (Lausanne, Switzerland)	4924
15:45	<b>Benefit of long-term therapy with HHF in Bronchiectasis patients at home.</b> Giuseppe Fiorentino (Napoli (NA), Italy)	5445
16:00	<b>Go with the flow - Recent developments?</b> Jens Bräunlich (Leipzig, Germany)	5446



Red 1+2

Session 524

09:00 - 10:15

**Industry Wednesday Special Session: Healthy lungs means healthy people? – we must do more!***Organised by AstraZeneca*

**Aims :** to explore the concept of good lung health and discuss the importance of advancing this in clinical practice: to highlight the importance of identifying cardiopulmonary risk in patients with COPD and discuss ways to holistically manage these patients; to discuss opportunities to demonstrate improvements in the future of respiratory care.

**Chairs :** Alberto Papi (Cambridge (Cambridgeshire), United Kingdom), Christine Jenkins (McMahons Point (NSW), Australia)

09:00	<b>Co-Chairs' welcome</b> Alberto Papi (Cona, Ferrara, Italy)	5391
09:05	<b>Defining trajectories of good lung health – how do we get everyone on track?</b> James Allinson (London, United Kingdom)	5392
09:20	<b>Panel discussion and Q&amp;A   Towards good lung health – what do we do now?</b> Janwillem W. H. Kocks (Groningen, Netherlands)	5393
09:35	<b>COPD: it's not just about the lungs!</b> Mona Bafadhel (London, United Kingdom)	5394
09:50	<b>Panel discussion and Q&amp;A   How can we improve the management of COPD to reduce cardiopulmonary risk?</b> Tonya Winders (Hendersonville, United States)	5395
10:05	<b>Summary and closing remarks</b> Christine Jenkins (McMahons Point (NSW), Australia)	5396

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