<table>
<thead>
<tr>
<th>Room Type</th>
<th>Session 2</th>
<th>11:30 - 12:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public: Opening press conference for Breathe Clean Air Milan To be held in: Fondazione Feltrinelli Viale Pasubio 5 20154 Milano</td>
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<tr>
<th>Room Type</th>
<th>Session 3</th>
<th>12:00 - 22:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public: Healthy Lungs for Life: Clean Air Milan To be held: Piazza XXV Aprile</td>
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</tbody>
</table>

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

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<tr>
<th>Time</th>
<th>Event</th>
<th>Chairs</th>
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</thead>
<tbody>
<tr>
<td>08:00</td>
<td>TUS Part 3 OSCE examination : Round 1</td>
<td>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)</td>
</tr>
<tr>
<td>09:05</td>
<td>TUS Part 3 OSCE examination : Round 2</td>
<td>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)</td>
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<tr>
<td>10:10</td>
<td>TUS Part 3 OSCE examination : Round 3</td>
<td>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)</td>
</tr>
<tr>
<td>11:15</td>
<td>TUS Part 3 OSCE examination : Round 4</td>
<td>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)</td>
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<tr>
<td>12:20</td>
<td>TUS Part 3 OSCE examination : Round 5</td>
<td>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)</td>
</tr>
<tr>
<td>13:40</td>
<td>TUS Part 3 OSCE examination : Round 6</td>
<td>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)</td>
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<tr>
<td>14:50</td>
<td>TUS Part 3 OSCE examination : Round 7</td>
<td>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)</td>
</tr>
<tr>
<td>16:00</td>
<td>TUS Part 3 OSCE examination : Round 8</td>
<td>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)</td>
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<tr>
<td>17:10</td>
<td>TUS Part 3 OSCE examination : Round 9</td>
<td>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), Jouke T. Annema (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>18:20</td>
<td>TUS Part 3 OSCE examination : Round 10</td>
<td>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), Jouke T. Annema (Amsterdam, Netherlands)</td>
</tr>
</tbody>
</table>

### News from the studio: Welcome from chairs

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

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<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome and overview of the day</td>
<td>Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France), Carlos Robalo Cordeiro (Coimbra, Portugal)</td>
</tr>
<tr>
<td>11:00</td>
<td>Presentations skills - Breakout</td>
<td>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), Orianne Dumas (Villejuif, France), Joana Cruz (Leiria, Portugal)</td>
</tr>
<tr>
<td>12:20</td>
<td>Coffee Break</td>
<td></td>
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<tr>
<td>14:00</td>
<td>Mentoring lunch</td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td>Keynote: Manuscript writing and publishing</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
</tr>
<tr>
<td>15:50</td>
<td>Manuscript writing/publishing - Breakout</td>
<td>Thomas Gille (Bobigny, France), Karen Moor (Rotterdam, Netherlands), Orianne Dumas (Villejuif, France), Carolina Gotera (Madrid, Spain), Sara Cuevas Ocaña (Nottingham, United Kingdom)</td>
</tr>
<tr>
<td>16:30</td>
<td>Panel discussion: Time management and work/life balance</td>
<td>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)</td>
</tr>
<tr>
<td>17:30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>18:15</td>
<td>Feedback and key take-home messages</td>
<td>Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)</td>
</tr>
</tbody>
</table>

Blue 1+2

Postgraduate course: PG1 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)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Welcome and introduction</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
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<tr>
<td>09:10</td>
<td>Focused cardiac ultrasound (FoCUS)</td>
<td>Casper Falster (Odense, Denmark)</td>
</tr>
<tr>
<td>09:40</td>
<td>Limited compression ultrasonography (LCU) of the deep veins for DVT assessment</td>
<td>Casper Falster (Odense, Denmark)</td>
</tr>
<tr>
<td>10:10</td>
<td>Coffee break</td>
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<tr>
<td>10:20</td>
<td>US assessment of the diaphragm</td>
<td>Søren Helbo Skaarup (Aarhus C, Denmark)</td>
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<tr>
<td>10:50</td>
<td>Interactive case discussion session I</td>
<td>Casper Falster (Odense, Denmark), Søren Helbo Skaarup (Aarhus C, Denmark)</td>
</tr>
</tbody>
</table>

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

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

**Tag(s):** Clinical

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to the workshops</td>
<td>Sophia E. Schiza (Heraklion, Greece), Stylianos Loukides (Athens, Greece), Gabor Kovacs (Graz, Austria)</td>
<td>31</td>
</tr>
<tr>
<td>09:15</td>
<td>Lung imaging</td>
<td>Anna Kerpel-Fronius (Budapest, Hungary)</td>
<td>32</td>
</tr>
<tr>
<td>09:15</td>
<td>Pulmonary function testing</td>
<td>Frans H.C. De Jongh (Eindhoven, Netherlands)</td>
<td>33</td>
</tr>
<tr>
<td>09:15</td>
<td>Respiratory infections</td>
<td>Eva Polverino (Barcelona, Spain)</td>
<td>34</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to the workshops</td>
<td>All Speakers</td>
<td>35</td>
</tr>
<tr>
<td>09:15</td>
<td>Endoscopy</td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
<td>36</td>
</tr>
<tr>
<td>09:15</td>
<td>Lung function tests</td>
<td>Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)</td>
<td>37</td>
</tr>
<tr>
<td>09:15</td>
<td>Imaging and ultrasound</td>
<td>Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)</td>
<td>38</td>
</tr>
</tbody>
</table>

### 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)
### Session 12

**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)

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

### Session 13

**Postgraduate course: PG6 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)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Pathophysiology and molecular biology in the formation of locoregional lymph node metastases</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
</tr>
</tbody>
</table>
Coral 3

Session 14

Postgraduate course: PG4 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  Diagnosis of asthma
       Renaud Louis (Liège, Belgium)

09:50  Discussion and Q&A
       All Speakers

10:00  Assessing and monitoring asthma and its phenotypes
       Stylianos Loukides (Athens, Greece)

10:20  Discussion and Q&A
       All Speakers

10:30  Pharmacological treatment and current controversies
       Mona Al-Ahmad (Kuwait, Kuwait)

10:50  Discussion and Q&A
       All Speakers

11:00  Comorbidities in asthma
       Florence Schleich (Liège, Belgium)

11:20  Discussion and Q&A
       All Speakers

11:30  Break
Postgraduate course: PG5 PG5 - The use of lung function in early detection of disease

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

**Yellow 1+2+3**

**Session 17 09:30 - 13:00**

**Postgraduate course: PG7 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)

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<tr>
<td>09:30</td>
<td>Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation?</td>
<td>Fida Charif (Beirut, Lebanon)</td>
<td></td>
<td>93</td>
</tr>
<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</tr>
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### Coral 2  
**Session 18**  
**09:30 - 13:00**

**Postgraduate course: PG3 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)

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

### Amber 1+2  Session 19  10:00 - 11:00
**Case-based skills workshop: Academy of adult respiratory medicine - Round 2 workshops**

**Tag(s):** Clinical

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td><strong>Lung imaging</strong></td>
<td>Anna Kerpel-Fronius (Budapest, Hungary)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Pulmonary function testing</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Respiratory infections</strong></td>
<td>Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>10:45</td>
<td><strong>Break</strong></td>
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</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td><strong>Endoscopy</strong></td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Lung function tests</strong></td>
<td>Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Imaging and ultrasound</strong></td>
<td>Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)</td>
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<tr>
<td>10:45</td>
<td><strong>Break</strong></td>
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### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td><strong>Welcome</strong></td>
<td>Kjeld Hansen (Oslo, Norway), Hilde de Keyser (Brussels, Belgium)</td>
</tr>
<tr>
<td>10:55</td>
<td><strong>ERS President Address</strong></td>
<td>Carlos Robalo Cordeiro (Coimbra, Portugal), Monika Gappa (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>11:05</td>
<td><strong>Introduction to session: Patient and public involvement in research</strong></td>
<td>Hilde de Keyser (Brussels, Belgium)</td>
</tr>
<tr>
<td>11:10</td>
<td><strong>Keynote: Patient involvement in setting research priorities – the European Multicentre Bronchiectasis Audit and Research Collaboration experience</strong></td>
<td>Michal Shteinberg (Haifa, Israel)</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>Patient involvement in setting research priorities using a patient journey approach</strong></td>
<td>Anke Widenmann (Stuttgart, Germany)</td>
</tr>
<tr>
<td>11:40</td>
<td><strong>Co-design of a secondary prevention and research project for Sleep Apnoea with input from patients, health associations and health professionals</strong></td>
<td>Luca Roberti (Rome, Italy)</td>
</tr>
<tr>
<td>11:50</td>
<td><strong>Panel discussion and question and answer</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:10</td>
<td><strong>Comfort break</strong></td>
<td>Kjeld Hansen (Oslo, Norway)</td>
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<tr>
<td>Time</td>
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<td>Speaker/Location</td>
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<tr>
<td>11:00</td>
<td>Session 22: Case-based skills workshop - Round 3 workshops</td>
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<tr>
<td>11:00</td>
<td>Lung imaging</td>
<td>Anna Kerpel-Fronius (Budapest, Hungary)</td>
</tr>
<tr>
<td>11:00</td>
<td>Pulmonary function testing</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
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<tr>
<td>11:00</td>
<td>Respiratory infections</td>
<td>Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>11:00</td>
<td>Endoscopy</td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
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<td>11:00</td>
<td>Imaging and ultrasound</td>
<td>Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)</td>
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</tbody>
</table>

**Amber 1+2**

**Session 22**  
11:00 - 11:45  
Case-based skills workshop: Academy of adult respiratory medicine - Round 3 workshops  
Tag(s): Clinical  

**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)
Blue 1+2  Session 24  11:10 - 13:40
Postgraduate course: PG1 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)

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

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 Rodriguez (Palma De Mallorca, Spain)

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

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**
Comité d’Orientation Stratégique et d’Engagement (COSE) de la SPLF / SPLF Strategic Orientation and Commitment Committee (COSE)
Chantal Raherison-Semjen (Pointe-à-Pitre (Guadeloupe), France)

**11:25**
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
Marc Humbert (Le Kremlin-Bicêtre, France)

**11:35**
 Médecine collaborative: diagnostic et traitement de l'EP durant la grossesse / Collaborative medicine: diagnosis and treatment of pulmonary embolism during pregnancy
Cécile Tromeur (Brest, France)

**11:45**
 Lieux de soins: PEC ambulatoire de l'embolie pulmonaire / Care: management of pulmonary embolism
Olivier Sanchez (Paris, France)

**11:55**
Discussion and Q&A
All Speakers

**12:10**
One Health – Exposome: nouveaux paradigmes en pneumologie? / Exposome: new paradigms in pneumology?
Claire Andrejak (Amiens, France)

**12:20**
Pollution et Cancer bronchique / Pollution and lung cancer
Lucile Sese (Paris, France)

**12:30**
Discussion and Q&A
All Speakers

**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**
Sleep-related disorders
Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)

**13:00**
Pulmonary circulation
Gabor Kovacs (Graz, Austria), Mona Lichtblau (Zürich, Switzerland)

**13:00**
Thoracic oncology
Wouter H. van Geffen (Leeuwarden, Netherlands), Maria Joana Pereira Catarata (Porto, Portugal)

**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**
Bronchial asthma and wheezing disorders
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)

**13:00**
Non-CF bronchiectasis
Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

**13:00**
Sleep disorders
Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)
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 fibrosoanti. Inoltre, due letture saranno dedicate ai fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosoanti 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)

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

Blue 1+2 Session 31 13:40 - 15:10
Postgraduate course: PG1 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)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>13:40</td>
<td>Advanced TUS for assessment of the patient with pleural disease</td>
<td>Eihab Bedawi (Sheffield, United Kingdom)</td>
</tr>
<tr>
<td>14:10</td>
<td>Advanced TUS for the assessment of the patient with a chest opacity</td>
<td>Christian B. Laursen (Odense, Denmark)</td>
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<tr>
<td>14:40</td>
<td>Interactive case discussion session III</td>
<td>Eihab Bedawi (Sheffield, United Kingdom), Christian B. Laursen (Odense, Denmark)</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
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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)

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>13:45</td>
<td>Sleep-related disorders</td>
<td>Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)</td>
</tr>
</tbody>
</table>
## 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)

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<td><strong>Bronchial asthma and wheezing disorders</strong></td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)</td>
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<tr>
<td>13:45</td>
<td><strong>Non-CF bronchiectasis</strong></td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
</tr>
<tr>
<td>13:45</td>
<td><strong>Sleep disorders</strong></td>
<td>Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)</td>
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</table>

## Red 1+2  
**Session 34**  
**14:00 - 17:30**
*Postgraduate course: PG9 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)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>Noninvasive respiratory support therapies in the acute setting: How to improve the success rate in acute hypoxemic respiratory failure</strong></td>
<td>Alexandre Demoule (Paris, France)</td>
</tr>
<tr>
<td>14:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>Noninvasive respiratory support therapies in the acute setting: how to improve the success rate in weaning</strong></td>
<td>Martin Dres (Paris, France)</td>
</tr>
<tr>
<td>14:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>Noninvasive respiratory support therapies in the chronic setting: how to improve the success rate in neuromuscular disorders</strong></td>
<td>Michelle Chatwin (London, United Kingdom)</td>
</tr>
<tr>
<td>15:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Noninvasive respiratory support therapies in the chronic setting: how to optimise the patient-ventilator interaction</strong></td>
<td>Annalisa Carlucci (San Donato Milanese (MI), Italy)</td>
</tr>
<tr>
<td>15:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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<td>16:00</td>
<td><strong>Break</strong></td>
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</table>
### Coral 3  
**Session 35**  
**14:00 - 17:30**

**Postgraduate course: PG10 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)

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Diagnosis of COPD</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
</tr>
<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:30</td>
<td>Assessing and monitoring COPD and its phenotypes</td>
<td>MeiLan K. Han (Ann Arbor, United States)</td>
</tr>
<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:00</td>
<td>Pharmacological treatment and current controversies</td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
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<tr>
<td>15:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:30</td>
<td>Comorbidities in COPD</td>
<td>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>15:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>16:00</td>
<td>Break</td>
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<tr>
<td>16:30</td>
<td>Interactive cases by early career members</td>
<td>Alexander Mathioudakis (Stockport, United Kingdom)</td>
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### Brown 3  
**Session 36**  
**14:00 - 17:30**

**Postgraduate course: PG12 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Introduction</td>
<td>All Speakers</td>
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<td>14:20</td>
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<td>16:00</td>
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<tr>
<td>16:30</td>
<td>Interactive cases by early career members</td>
<td>Alexander Mathioudakis (Stockport, United Kingdom)</td>
</tr>
</tbody>
</table>
### Session 37 14:00 - 17:30

**Brown 1+2**

#### Postgraduate course: PG11 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>New advantages in paediatric interventional bronchoscopy: cryotherapy</td>
<td>Alfin Vicencio (New York, United States)</td>
</tr>
<tr>
<td>15:00</td>
<td>Cryotherapy in children: History, physics, mechanism of action and indications</td>
<td>Sarabon Tahura (Dhaka, Bangladesh)</td>
</tr>
<tr>
<td>14:20</td>
<td>Foreign body removal by means of cryocatheters</td>
<td>Rhia Shah (New York City, United States)</td>
</tr>
<tr>
<td>14:40</td>
<td>Restoration of airway patency: indication and technique</td>
<td>Erik B. Hysinger (Cincinnati, United States)</td>
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<tr>
<td>15:20</td>
<td>Break</td>
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<tr>
<td>15:50</td>
<td>Group assignment: Cryotherapy in paediatric airway</td>
<td>Alfin Vicencio (New York, United States), Sarabon Tahura (Dhaka, Bangladesh), Rhia Shah (New York City, United States), Erik B. Hysinger (Cincinnati, United States)</td>
</tr>
</tbody>
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**ERS International Congress 2023**

**DETAILED PROGRAMME**

**SATURDAY 09 SEPTEMBER, 2023**
Postgraduate course: PG8 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 The pulmonary gas exchange response to exercise in health and disease
Paolo Palange (Rome, Italy)

14:20 Discussion and Q&A
All Speakers

14:30 Respiratory mechanics and exertional dyspnoea in health and disease
Michele Schaeffer (Leuven, Belgium)

14:50 Discussion and Q&A
All Speakers

15:00 Group assignment: Advanced cardiopulmonary exercise testing
Paolo Palange (Rome, Italy), Michele Schaeffer (Leuven, Belgium), Pierantonio Laveneziana (Paris, France)

15:30 Break

16:00 Modalities available for assessing the exercise response and exercise rehabilitation
Sally J. Singh (Leicester (Leicestershire), United Kingdom)

16:20 Discussion and Q&A
All Speakers

16:30 Exercise testing in children with respiratory diseases
Erik Hulzebos (Utrecht, Netherlands)

16:50 Discussion and Q&A
All Speakers

17:00 Group assignment: Advanced cardiopulmonary exercise testing
Sally J. Singh (Leicester (Leicestershire), United Kingdom), Erik Hulzebos (Utrecht, Netherlands), Pierantonio Laveneziana (Paris, France)

Postgraduate course: PG13 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 The clinical approach to ILD
Julia Wälscher (Essen, Germany)

14:20 How to read a high-resolution computed tomography scan?
Nicola Sverzellati (Parma (PR), Italy)
14:50  The practice of cryobiopsy
Lauren Troy (Camperdown (NSW), Australia)  235

15:10  New techniques in the diagnosis of ILDs
Marlies S. Wijsenbeek (Rotterdam, Netherlands)  236

15:40  Pitfalls in the diagnosis of ILDs
Michael Kreuter (Heidelberg, Germany)  237

16:00  Break  238

16:15  The challenges to diagnose: cystic lung disease
Vincent Cottin (Lyon, France)  239

16:30  The challenges to diagnose: drug-induced lung disease
Lauren Troy (Camperdown (NSW), Australia)  240

16:45  The challenges to diagnose: progressive pulmonary fibrosis
Vincent Cottin (Lyon, France)  241

17:00  The grand finale: Multidisciplinary case discussions
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  Sleep-related disorders
Dries Testelmans (Leuven, Belgium), Elisa Perger (Milano, Italy), Marieke L. Duiverman (Groningen, Netherlands)  243

14:45  Pulmonary circulation
Gabor Kovacs (Graz, Austria), Mona Lichtblau (Zürich, Switzerland)  244

14:45  Thoracic oncology
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  Bronchial asthma and wheezing disorders
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)  246

14:45  Non-CF bronchiectasis
Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)  247

14:45  Sleep disorders
Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)  248

Blue 1+2  Session 42  15:10 - 17:00
Postgraduate course: PG1 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)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
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<tr>
<td>15:10</td>
<td>Ultrasound guided biopsy of the pleura</td>
<td>Dinesh Addala (Oxford, UK)</td>
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<tr>
<td>15:35</td>
<td>Ultrasound guided biopsy of lymph nodes</td>
<td>Anand Sundaralingam (Oxford, UK)</td>
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<tr>
<td>16:00</td>
<td>Break</td>
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<tr>
<td>16:10</td>
<td>Ultrasound guided biopsy of the lung</td>
<td>Christian B. Laursen (Odense, DK)</td>
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<tr>
<td>16:35</td>
<td>TUS for advanced procedure guidance</td>
<td>Steven Walker (Bristol, UK)</td>
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<td><strong>Studio (White)</strong> Session 43</td>
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<td>15:15</td>
<td>Biological therapy for severe asthma</td>
<td>Ignacio Zabert (Neuquén, AR)</td>
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<td>15:30</td>
<td>Lung cancer: recent therapeutic advances</td>
<td>Margarida Carmo de Pinho Dias (Vila Nova de Gaia, PT)</td>
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<tr>
<td>15:45</td>
<td>Role of biological therapy for chronic obstructive pulmonary disease</td>
<td>Fco.De Borja Garcia-Cosio Piqueras (Palma de Mallorca, SP)</td>
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<tr>
<td>16:00</td>
<td>Biologic treatments for interstitial lung diseases</td>
<td>Bruno Guedes Baldi (São Paulo, SP, BR)</td>
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<tr>
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<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<td><strong>Gold</strong> Session 44</td>
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<td>17:45</td>
<td>Ceremony session: Opening Session</td>
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<td><strong>Aims</strong>: The Opening Session will be followed by a welcome reception. The programme starts at 18.00 sharp.</td>
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<td><strong>Chairs</strong>: Maria Rosaria Bonsignore (Palermo, IT), Sergio Alfonso Harari (Milano, MI, IT)</td>
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## PS-1 in poster area  
### Session 52  
### 08:00 - 09:30

**Poster session: Emerging evidence in COVID-19**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Tag(s)</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>Interstitial lung diseases</td>
<td>Public health, Imaging, Physiology, Pulmonary function testing, General respiratory patient care, Pulmonary rehabilitation</td>
<td>Clinical</td>
<td>Margarida Afonso (Castelo Branco, Portugal), Priti Meshram (Mumbai (Maharashtra), India)</td>
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<tr>
<td>Airway diseases</td>
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<td>Respiratory critical care</td>
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<tr>
<td>Pulmonary vascular diseases</td>
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### PA283
**COVID-19 and pregnancy: experience of observations in the city perinatal center in 2021-2022 years**  
Natalia Kravchenko (Dnipro, Ukraine), Hanna Harahulia, Olha Cherkesova, 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 keteta, 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), Abdellkarim 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 Jordzhushina

### 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 Jahan

### 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), Yuriy Feshchenko, Mykola Gumeniuk, Viktoria Ignatieva, Maryna Polianska, Mykola Lynnyk, Svitlana Opimakh, Inna Zvol, Oleh Yakovenko
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<tbody>
<tr>
<td><strong>Poster session: Determinants of lung health</strong></td>
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<tr>
<td><strong>Disease(s):</strong></td>
<td>Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases</td>
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<td><strong>Method(s):</strong></td>
<td>Epidemiology, Public health, Pulmonary function testing, Endoscopy and interventional pulmonology</td>
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<td><strong>Tag(s):</strong></td>
<td>Translational</td>
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<tr>
<td><strong>Chairs:</strong></td>
<td>Abigail Whitehouse (London, United Kingdom), Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain)</td>
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</table>

**PA296**  
Formerly hospitalized patients treated with remdesivir presented less respiratory post-COVID symptoms  
Enikő Bárczi (Budapest, Hungary), Lórince Polivka, Alexandra Nagy, Gábor Horváth, Veronika Müller

**PA297**  
Predicting clinical worsening among hospitalized patients with COVID-19  
Lancelot Pinto (Mumbai, India), Ph Aswin, Ananya Prabhughate, Aditi Erande, Zair Udawadia, 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-Padlo, 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 Moetemri

**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), Ramés 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 patients with COVID19  
Khoulou Chaabi (Tunis, Tunisia), Haifa Zaibi, Hend Ouertani, Safia Othmani, Emma Ben Jemia, Jihen Ben Amar, Hana Hedhli, Hichem Aouina

**PS-10 in poster area**
Preconception air pollution/greenness exposure and pregnancy outcomes: The Life-GAP Project
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, Jorgen Brandt, Francisco Gomez Real, Simone Accordini, Iana Markevych, Cecillie Svanes, Ane Johannessen

Obesity and asthma incidence in individuals exposed to agricultural spaces
Ilaria Stanisci (Pisa, Italy), Anna Angino, Sofia Tagliaferro, Giuseppe Sarnio, Giovanni Viegi, Sara Maio, Patrizia Silvi, Stefania La Grutta, Salvatore Fasola, Velia Malizia, Isabella Annesi-Maesano, Sandra Baldacci

Pollen exposures in pregnancy and early life are associated with childhood asthma
Rajesh Melaram (Southaven, United States), James Adefisoye, Donald Warden, Stephen Potter, Hasan Arshad, Hongmei Zhang

Air quality may affect emergency department workload: The effect of air pollution on acute exacerbation of chronic obstructive pulmonary disease in Zagreb, Croatia
Marko Banić (Zagreb, Croatia), Lorna Ćorak, Dora Darapi, Robert Likić, Denis Baričević, Miroslav Samardžija, Andrea Vukić Dugac

Education and income may be important predictors for digital health adoption in asthma
Daniela Tellez (San Diego, United States), Elroy Boers, Leanne Kaye, Vy Vuong, Meredith Barrett

USE OF ELECTRONIC CIGARETTES AND HOOKAH IN BRAZIL: A NEW AND EMERGING LANDSCAPE.
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

Epidemiology of PH-LD and PH-ILD in France: a real-world evidence study
Olivier Sitbon (Le Kremlin-Bicêtre, France), Vincent Cottin, Maria Pini, Catia Ć Proenca, Miriam Fernández Delgado, Gabriela Bacchini Jeanneret

A systematic review of Theory of planned Behaviour interventions for chronic diseases in low health-literacy settings
BISWAJIT PAUL (Vellore, India), Rita Isaac, Marshall Dozier, Liz Grant, David Weller

Comorbidities in patients with severe COPD reduce quality of life, but do not affect survival
Else-Anna-Maria-Dorothee ter Haar (Groningen, Netherlands), Dirk-Jan Slebos, Karin Klooster, Simon D. Pouwels, Jorine E. Hartman

Dyspnoea in the multinational Burden of Obstructive Lung Disease (BOLD) study
Alexander Müller (Wien, Austria), Emiel Wouters, Sylvia Hartl, Daisy Janssen, André Amaral

UNCOVER – a non-interventional study to investigate undiagnosed severe asthma in Austria
Katharina Marth (Wien, Austria), Karin Patocka, Andreas Renner, Ingrid Stelzmüller, slagia Stoshikj, Marco Idzko, Beata Morajda, Robab Breyer-Kohansal, Wolfgang Pohl

Differences in educational level and drinking habits in women with and without COPD in a Danish rural population
Line Bjørrehave Nielsen (Aalborg, Denmark), Signe Juul Riddersholm, Ulla Møller Weinreich

Curative surgical resection of lung cancer in octogenarian in tunisian center
Sarra Zairi (Tunis, Tunisia), Mahdi Abdennadher, Wassim Chaieb, Hazem Zribi, Amina Abdelkebir, Mouna Mlika, Sonia Ouerghi, Marghli Adel

Quantitative CT imaging to predict postoperative pulmonary function in patients undergoing lung resection surgery: pilot study
Alessandro Molani (Milano, Italy), Francesca Pennati, Rosaria Carrinola, Alessandro Palleschi, Andrea Aliverti

Interstitial lung disease and operable lung cancer - a center experience
Francisco Neri Gomes (Lisboa, Portugal), Zenito Cruz, Catarina Figueiredo, Tamiris Mogne, Bruno Mendes, Mariana Cabral, Paulo Calvinho

The clinicopathological study on the cause of high postoperative recurrence for catamenial pneumothorax
Masatoshi Kurihara (Tokyo, Japan), Kenji Tsuboshiba, Takahiro Ochi
Patient reported outcome measures (PROMS) following multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgery.
Ioannis Karampinis (Athens, Greece), Ioannis Kyritsis, Elli Keramida, Elena Bellou, Fotis Kyriakou, Nikolaos Anastasiou, Georgia Hardavella

Complications of transbronchial lung cryobiopsy: correlation with radiological pattern and PAPs
Guadalupe Bermudo Peluche (Barcelona, Spain), Marta Plana Pes, Marta Diez-Ferrer, Pere Trias-Sabrià, Salud Santos Pérez, Vanesa Vicens Zygmunt, Maria Molina Molina, Rosa López-Lisbona, Marta Plana Pes

Acquired Tracheo-esophageal Fistula: surgical management
Sarra Zairi (Tunis, Tunisia), selma madhi, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Soumaya Ben Saad, Ayda Kkaddour Ayedi, Adel Marghli

PROGNOSTIC FACTORS IN OPERATED THYMOMA.
Sarra Zairi (Tunis, Tunisia), Feriel Souissi, Taieb Chrif, Mahdi Abdennadher, Mohamed Chokri Kortas, Sofiene Jerbi, Adel Marghli

Surgical management of neurogenic chest tumor
Sarra Zairi (Tunis, Tunisia), Kaouthier Ben Amara, Amina Abdelkebir, Habib Bessrour, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Adel Marghli

Diaphragm plications: trends and outcomes.
Masooma Ali (Nottingham, United Kingdom), Milind Sovani, Abed-Elfattah Atieh, Mohammad Hawari

Does oxidized regenerated cellulose reinforcement for the entire pulmonary lobe during video-assisted thoracoscopic blebectomy reduce postoperative recurrent pneumothorax?
Masao Naruke (Tokyo, Japan), Ikuo Kamiyama, Takashi Ohtsuka

Lung cancer surgery with curative intent in elderly patients; Friend or foe?
Georgia Hardavella (Athens, Greece), Ioannis Karampinis, Elissavet Babaliari, Elli Keramida, Fotis Kyriakou, Panagiotis Demertzis, Konstantinos Potaris

Surgery of Giant Bullous Emphysema: Report of 60 patients
Sarra Zairi (Tunis, Tunisia), Mahdi Abdennadher, Elyes Khlas, Abdelkebir Amina, Hazem Zribi, Henda Neji, Hanen Smadhi, Adel Marghli

Lung cancer screening "through" the COVID19 pandemic. A retrospective study.
Mariem Hadi Dahmane (Argenteuil, France), Abdou Rabi Richard, Bassel Dakhil, Patrick Bagan, Rym Zaimi, Hanifa Boukhair

Hybrid surgical treatment of a complicated intralobar sequestration in a young adult.
Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Stylianos Michelis, Anna Theodorou, Georgios Gkantinas, Evangelos Fergadis, Maria Trimandili, Theodoros Fachouridis, Efstathios Metaxas, Ioannis Stamatas, Georgios Benakis, Ilias Samiotis, Antonios Katsantonis, Kiknadze Theoni, Antonios Antoniadis, Stylianos Zaragkas, Nikolaos Tzatzadakis

Non-small cell lung cancer with chest wall involvement: peculiarities of management
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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
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<th>PA428</th>
<th>Clinical characteristics of diffuse cystic lung diseases at a national referral centre</th>
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<td>Helen O'Brien (Ratoath, Ireland), Cara Gill, Marissa O'Callaghan, Evelyn Lynn, Fiona Hickey, Jehovah Khan, Alessandro Franciosi, Michael P Kean, Cormac Mc Kean</td>
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<td>Ekeratina Krauss (Giessen, Germany), Laurenz H. Claas, Karen Moor, Maria Molina-Molina, Keerthana Siebert, Silke Tello, Jennifer Naumann, Rebecca Borton, Marlies Wijnsbeek-Lourens, Bruno Crestani, Andreas Guenther</td>
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<td>Ilaria Menichini (Roma (RM), Italy), Claudia Ravaglia, Sara Piciucchi, Alessandra Dubini, Venerino Polletti</td>
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<td>Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom), Helen Parfrey, Mostin Hu, Christine Fiddler, Eamonn Maher</td>
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<td>Tal Ardon (Tel Aviv, Israel), Omer Kersh, Ophir Freund, Tamar Salomon, Tzvili Hershko, Amir Bar-Shai, Galit Aviram, Avraham Unterman</td>
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<th>PA437</th>
<th>Prevalence of lung cysts – are we missing incidental cystic lung disease?</th>
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<td>Saher Sultan (Nottingham, United Kingdom), Michael Avoseh, Dominic Shaw, Simon Johnson</td>
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Level of information of patients with lymphangioleiomyomatosis – room for improvement!
Finn Wilkens (Heidelberg, Germany), Christoph Lederer, Claudia Ganter, Catrin Ender, Henrike Wilkens, Nicolas Kahn, Katharina Buschulte, Katharina Kriegsmann, Michael Kreuter

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

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), Agustín García, Juan José Lozano, Julia Sidorova, Isabel Blanco, Clara Martín, Olga Tura-Beide, Victor Ivo Pernado, Diego Rodríguez, Manuel López-Meseguer, Fernanda Hernández-González, Jesús Ribas, Xavier Pomares, Salud Santos, Maria Molina-Molina, Jacobo Sellares, 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 (Bialystok, Poland), Marta Baranowska-Kuczek, Irena Kasacka, Hanna Kołowska

PA448 Osteopontin in experimental right ventricular remodeling
Argen Mamazhakypov (Bishkek, Kyrgyzstan), Norbert Weissmann, Ardeschir Ghofrani, Ralph Schermuly, Akybek 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 Moliens, 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 TNFα and the effect of the BET inhibitor JQ1.
Ian M. Adcock (London, United Kingdom), Sharon Mumby, Stephen Wort, Fred Perros, Marc Humbert, Gaetano Caramori
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<td>Thoracic oncology, Airway diseases, Interstitial lung diseases</td>
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<td>Peter I. Bonta (Amsterdam, Netherlands), Konstantina Kontogianni (Heidelberg, Germany)</td>
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| PA453 The Fibronectin-Binding Integrins System as a Contributor to PAH Pathogenesis | Sarah-Eve Lemay (Quebec, Canada), Mónica S Montesinos, Yann Grobs, Tsutaka Shimauchi, Sandra Breuils-Bonnet, Sandra Martineau, Alice Bourgeois, Mabrouka Salem, Charlie Theberge, Reem El Kabbout, Charlotte Romanet, Min Lu, Xinqiang Huang, James E Dowling, Adrian S Ray, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet |
| 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, Moomo vừa Haukat, Zoe Sahlmannshausen, Nicola Benjamin, Panagioti Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Katrin Hinderhofer, Ekkehard Grüning, Magdalena Laugsch, Christina Eichstaedt |
| 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-Bevenese, Gregory A Payne, Liliana Viera, Rakesh Patel, J. Michael Wells, Gert Fölkerts, J. Edwin Blalock, Amit Gagger |
| PA457 Synthesis of CeO2@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/GRIP 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 |
| 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 | Endoscopic aspergilloma management for non-surgical patients | Elaine Dufour (Calgary (AB), Canada), Christina Thornton, Crystall Chan, Paul MacEchern, Christopher Mody |
| PS-18 in poster area | 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 |
| PS-18 in poster area | Does stent shape affect results in Post-Intubation Tracheal Stenosis? | Hanna Dawood (Athens, Greece), Nektarios Anagnostopoulos, Evangelia Koukaki, Andriana Papaioannou, Grigoris Stratakos |
| PS-18 in poster area | Diagnostic yield and safety of Trans-Bronchial Cryo-Biopsy from right upper lobe | Elad Guber (Kfar saba, Israel), Ayal Romem, Hadas Gilboa, David Shitrit |
| PS-18 in poster area | Endobronchial cryobiopsy shortens the time to cancer diagnosis. | Kristian Brat (Brno, Czech Republic), Nela Stastna, Michaela Heroutova, Ivan Cundrle Jr |
| PS-18 in poster area | Utility of cryobiopsy in peripheral pulmonary lesions for next-generation sequencing | Yuji Matsumoto (Tokyo, Japan), Hideo Furuse, Tatsuya Imabayashi, Keigo Uchimura, Takaaki Tsuchida |
| PS-18 in poster area | 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  Diagnostic utility and safety of non-intubated cryobiopsy using a 1.1-mm cryoprobe for peripheral pulmonary lesions
Toshiyuki Nakai (Osaka, Japan), Tetsuya Watanabe, Kazuhiro Yamada, Misako Nishimura, Atsushi Miyamoto, Yoshiya Matsumoto, Kenji Sawa, Kanako Sato, Kazuhiisa Asai, Yuji Matsumoto, Yu Mikami, Tomoya Kawaguchi

PA469  A randomised trial of transbronchial mediastinal cryobiopsy versus forceps biopsy for the diagnosis of mediastinal lesion
Felix J.F. Herth (Heidelberg, Germany), Ye Fan, Wan-Lei Fu, Zan-Sheng Huang, Jing Wang

PA470  The diagnostic yield of aspirated material in EBUS-TNBA suction syringe: a prospective single center study.
Ayal Romem (Jerusalem, Israel), Elad Guber, David Shitrit

PA471  Identification of EGFR mutations in transbronchial cryobiopsies
Sergio Alejandro MENCHACA (TLALPAN, Mexico), Olivia Sanchez Cabral, Cira Santillan Diaz

PA472  Prevalence of Immune-mediated Inflammatory Diseases in Patients with Lung Cancer
Anna Casartelli (Masilianico, Italy), Marina Saad, Francesca Mandurino Mirizzi, Debora Maria Spitaleri, Lisa Milani, Giuseppe Croce, Giada Lazzaroni, Dejan Radovanovic, Pierachille Santus

PA473  The safety and practices of performing endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) without an anesthesiology team: experience from a tertiary centre
Grger Salai (Zagreb, Croatia), Robert Gecevic, Ivona Kovacevic, Ivan Marasovic, Darjan Ranilovic, Tajana Stoos Veic, Divo Ljubicic

PA474  Endobronchial ultrasound guided transvascular needle aspiration for lung tumor diagnosis
Maciej Gnass (Myslenice, Poland), Piotr Gnody, Agnieszka Knapczyk, Damian Czyzewski, Piotr Krudys, Alina Szmyczewy, Piotr Koccon, Artur Barczak, Artur Szlubowski

PA475  High flow cannula (HFNC) during EBUS TBNA – enough evidence so far? A real world study.
Sonja Badovinac (Zagreb, Croatia), Goran Glodić, Stela Majetić, Denis Barcićević, Dražena Srdić, Filip Popović, Feđa Džubur, Marta Koršić, Miroslav Samaržija

PA476  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
Pipu Tavornshevin (Bangkok, Thailand), Vorawut Thanthitaweewat, Thitiwat Sriprasart, Virissorn Wongsrichanalai, Poornchavist Chantranuwatana, Nophol Leelayuwatanakul

PA477  Tissue coagulum clot cellblock from EBUS-TBNA for the diagnosis of necrotic lung and mediastinal lesions.
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 Lian

PA478  Endobronchial ultrasound guided transbronchial lymph node cryobiopsy (EBUS-TBLNC): a new approach to mediastinal pathology.
Alessandro Fusco (Latina, Italy), Luca Ciani, Marco Trigiani, Valentina Luzzi, Leonardo Giuntoli, Leonardo Gori, Federico Laborini, 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), Mina Gaga (Athens, Greece)

PA480  High-Fidelity Simulation Enhances Trainee Confidence in Lung Cancer Multidisciplinary Team Meetings
Colette Davidson (Dundee (Angus), United Kingdom), Jessica Little*, Kishen Patel, Ewan Mackay, Karen Tipples, Adam Januszewski, William Ricketts

PA481  Radial EBUS Service Evaluation Audit in a U.K University Hospital
Aanchal Mehta (Liverpool, United Kingdom), James Ayathammattam, Suman Paul

PA482  The impact of pre-testing on post-test bronchoscopy competence in a simulation setting.
Eveline Gerrets (Maastricht, Netherlands), Marleen Groenier, Erik Van Der Heijden, Walther Van Mook, Jouke Annema, Frank Smeenk
PA483 Patient-Derived iPSC Models of Interstitial Lung Disease: An Evaluation of the Open-ILD COST Innovator Grant Training School
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 Flexible bronchoscopy course with simulation improves confidence for junior medical trainees
Harry Mitchell (London, United Kingdom), Rahul Mogal, Andrew Barlow

PA485 E-Learning as an interventional element to improve weaning expertise as part of the PRiVENT (prevention of invasive ventilation) project
Julia Dorothea Michels (Heidelberg, Germany), Janina Schubert-Haack, Benjamin Neetz, Katrin Tanck, Gabriele Iberl, Axel Kempa, Claus Neurohr, Gabriele Iberl, Christofandl, Armin Schneider, Patrick Gehrig, Simone Britsch, Mascha O. Fiedler, Joachim Szeszenyi, Felix J.F. Herth

PA486 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
Franziska Trudzinski (Heidelberg, Germany), Nicola Lilie, Olaf Buntemeyer, Simone Janssen, Axel Kempa, Claus Neurohr, Armin Schneider, Joachim Szeszenyi, Elena Bielher, Thomas Fleischauer, Felix J.F. Herth, Julia D. Michels

PA487 The optimal inpatient chronic obstructive pulmonary disease algorithm
Charlene Blumenthal (Reno, United States), Farah Madhani-Lovely, Jason Farnsworth, Amber Beck, John Lynn

PA488 Co-creation of a self-learning programme for patients with asthma: patients’ and health professionals’ perspectives on the relevant topics
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, Luis Taborda Barata, João Almeida Fonseca

PA489 Mobile application for asthma patients: is there an interest?
sofia Farhat (agadir, Morocco), Nada Boutbagha, Hanane Ikrou, Houssame Ennaceri, Abdelmajid Oulahbib, Younes Essaid, Ouassa Halloumi, Aboubakr Imzil, Abdelkarim Khannouss, Khadija Ait Nacer, Fatiha Bounoua, Hind Serhane, Houda Moubachir

PA490 Inhaler technique in a pediatric emergency department: Impact of an educational intervention among healthcare professionals in Greece
Elpis Hatzigorou (Panorama, Thessaloniki, Greece), Athina Karageorgiou, Fotios Kyrvasillis, Elissavet-Anna Chryssochou, John Tsanakas

PA491 An assessment of the information and educational needs of patients and caregivers of people with primary ciliary dyskinesia: an ERS clinical research collaboration
Jobst Röhmel (Berlin, Germany), Laura Behn, Myrofora Goutaki, Amelia Shoemark, Jeanette Boyd

PA492 Assessment of thoracic ultrasound skills in immersive virtual reality
Anders Bo Nielsen (Odense C, Denmark), Niels Jacobsen, Christian Laursen, Lars Konge, Pia Iben Pietersen

PA493 Application of big data analysis and telemedicine technology to screening and treatment in COVID-19
Hung-Chueh Peng (Douliou, Taiwan), Chung-Yu Chen, Matthew Hui-Ming Ma, Juay-Jen Hwang

PA494 Management of breathlessness: an ERS early career members online survey
Inês Zitoon (Cergy, France), Maria Joana Pereira Catarata, Carolina Gotera, Niki Ubags, Thomas Gille, Hilario Nunes, Anne Claire Toftiart, Maxime Patout, Boris Duchemann

PA495 The impact of COVID-19 on early career members (ECMs): an ERS ECM survey
Thomas Gille (Bobigny, France), Maxime Patout, Niki Ubags, Thomas Gille, Hilarion Nunes, Anne Claire Toftiart, Maxime Patout, Boris Duchemann

PA496 Respiratory education in Germany - an online-based survey of final-year medical students and chief physicians
Espen Elias Groth (Hamburg, Germany), Erik Büscher, Julia Walscher, Thomas Bahmer, Matthias Raspe, Nina Sicker, Christoph Fisser

PA497 Impact of an international medical education collaboration between industry and medical associations
Ebru YILDIZ (Istanbul, Turkey), Bhumika Aggarwal, Sudeep Acharya, Gur Levy

PA498 Internationally use of objective structured clinical examination (OSCEs) in respiratory training: an ERS early career member survey
Etienne-Marie Jutant (Poitiers, France), Lucile Sese, Maeva Zysman, Thomas Gille, Jonathan Messika, Bernard Maitre, Maxime Patout
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**
CPET in Long COVID (LC) patients (pts) with dyspnea and fatigue
Paraskevi Katsaounou (Athens, Greece), Archidoula Adonoglou, Adreas Asimakos, Stavroula Spetsioti, Pandelis Gounopoulos, Eleni Kostantinidou, Dimitris Spagoulakis, Stavros Patrinos, Adonis Kodaxakis, Aspasia Mavronassou, Martha-Spyridoula Katsarou

**PA500**
Combined Respiratory Muscle Training improves Long Covid symptoms - results from the Covid Virtual Recovery Study
Nina Bausek (Gloggnitz, Austria), Meredith, G Shea, Courtney, M Wheatley-Guy, Bruce Johnson

**PA501**
Effects of manuel therapy and inspiratory muscle training on respiratory functions, fatigue and activities in children with muscular disease
Burcu İşıcık (ZEYTINBURNU, Turkey), Ahu Gizem Akkuş, Yasemin Buran Çırağ, Gül Deniz Yılmaz Yelvar, Nurgül Dürüstkan Elbaş, Yunus Emre Tüütüeneken, Kübra Kardeş

**PA502**
Physiological effects of nasal high flow therapy in people with chronic obstructive pulmonary disease during exercise.
Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Pauline Smondack, Helena Brunel, Yann Combret, Clément Médrinaux, Guillaume Prieur, Fairuz Boujibar, Thomas Similowski, Jean-François Muir, Antoine Cuvelier, Maxime Patout

**PA503**
Clinical assessment of endothelial function in patients with chronic obstructive pulmonary disease undergoing pulmonary rehabilitation
Claudio Cândia (Naples, Italy), Pasquale Ambrosino, Giuseppina Marcuccio, Silvestro Emnio D'Anna, Salvatore Fuschillo, Roberto Formisano, Lucia Abagnale, Anna Lanzillo, Antonio Molino, Mauro Maniscalco

**PA504**
Effectiveness assessment of oscillating positive expiratory pressure (OPEP) devices: Using a clinically relevant laboratory measure
Jason Suggett (London (ON), Canada), Rob Costa

**PA505**
Estimation of the minimal important difference (MID) for the 1 repetition max (1RM) in COPD
George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan

**PA506**
Impaired training-induced myogenesis in COPD is due to blunt expression of extracellular matrix proteins.
Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Efpraxia Kritikaki, Gerasimos Terzis, Ioannis Vogiatzis

**PA507**
Interval-load vs constant-load upper limb exercise in patients with COPD: a cross-over study
Mara Paneroni (Mazzano (BS), Italy), Alessandro Cavicchia, Beatrice Salvi, Laura Bertacchini, Michele Vitacca

**PA508**
Estimation of the minimal important difference (MID) of quadriceps maximum voluntary contraction (QMVC) in response to pulmonary rehabilitation (PR) in COPD
George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan

**PA509**
Estimation of the minimal important difference (MID) for the 1 repetition max (1RM) in COPD patients
Qiao Qiao (Changchun, China), Hongjing Lin

**PA510**
Effect of Baduanjin combined with singing therapy on respiratory function of COPD patients
Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Efpraxia Kritikaki, Gerasimos Terzis, Ioannis Vogiatzis

**PA511**
Immediate Effects of Thoracic Manual Therapy on Pulmonary Function in Stroke Patients
Yunus TÜTÜNEKEN (848, Turkey), Emine Atici, Kenan Gul, Yasemin Buran Çırağ, Kübra Kardeş, Nurgül Dürüstkan Elbaş, Burcu İşıcık

**PA512**
Reliability of remote 1-minute sit-to-stand test to measure physical capacity in patients with chronic respiratory diseases
Santiago Larrateguy (Paraná, Argentina), Matias Otto-Yañes, Juan Bogado, Luis Larrateguy, Isabel Blanco, Elena Gimeno-Santos, Rodrigo Torres-Castro
Reference values for the 1-minute sit-to-stand test for the Argentine population
Santiago Larrateguy (Paraná, Argentina), Santiago Burgos, Rocío Iglesias, Laura Carrizo, Martín Cestari, Santiago Saavedra, Luis Larrateguy, Matías Otto-Yañez, Guillermo Mazzucco, Elena Gimeno-Santos, Rodrigo Torres-Castro

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 José Miranda Miño, Ignacio Oyarzún Aguirre

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 Bucșán, Eline H Ploumen, Wendy J C Van Beurden, Job Van Der Palen, Carine J M Doggen, Anke Lenferink

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

Relevance of multidimensional dyspnea assessment in context of pulmonary rehabilitation
Virginie Molinier (Lodève, France), Éspérance 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 Añonso, 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, Vlad 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, Catin 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

**PA525**
Direct health care cost of Chronic Obstructive Pulmonary Disease (COPD) in Morocco: a cost of illness study
Soumaya Benmaamar (FEZ, Morocco), Btissame Essabahi, Mohamed Teghi Beiba, Mohamed Omari, Ibissam El Harach, Mohammed Youbi, Latifa Belakhel, Loubna Abousselham, Hafid Hachri, Imane El Menchawy, 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 Lopez Segui, Agnes Hernandez Biette, Irene Aldas Criado, Antoni Marin Muñiz, 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
The last hours in a pulmonology ward: a retrospective look at end-of-life care
Joana Da Silva Cruz Gameiro Duarte (Oeiras, Portugal), Rita Enríquez, Catarina Amorim, Fernanda Mendes, Maria Conceição Alvarenga Santos, Margarida Duarte Barata, Nidia Caires, Raquel Rosa, Teresa Martins, Inês Claro, Filipa Todo Bom

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

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

Poster session: Chronic obstructive pulmonary disease diagnosis and management in primary care
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
Sex differences in mortality among COPD patients: the French Palomb Cohort.
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouaualaya, Laurent Falque, Laurent Nguyen, Anaïg Ozier, Alain Bernady, Emilie Bertaud, Julien Casteigt, Frédéric Le Guillou, Jean Moinard, Mohamed Staali, Cécilia Nocent, Mathieu Molimard, Chantal Raherison-Semjen
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 Feuchtner, Axel Bauer, Guenter Weiss, Judith Loeffler-Ragg, Guy Friedrich, Fabian Plank
COUGH AND SPUTUM PRODUCTION ARE ASSOCIATED WITH AGE AND TOTAL NUMBER OF EXACERBATION/PATIENT/YEAR IN COPD SUBJECTS.
Karim KHENNOUNF (ALGIERS, Algeria), Souad Souilah, Yacine Benbetka, Abdelkarim Saadi, Samya Taright
A qualitative study exploring current spirometry provision in England and the potential role of Artificial Intelligence
Gillian Doe (Leicester, United Kingdom), Stef 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
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
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
ABE assessment of chronic obstructive pulmonary disease (COPD) patients.
ANUJ KUMAR PANDEY (Lucknow, India), Ajay Kumar Verma, Surya Kant, Arpita Singh, Jyoti Bajpai
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 Poccardi, Caroline Fabry-Vendrand, Delphine Leynaud, Gabriel Thabut, Caroline Eteve-Pitsaer, Adrien Coriat, Idir Ghout, Henri Leleu
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 Licskai
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
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  Patient perspectives on treatment preference and adherence to treatment for chronic obstructive pulmonary disease
Miguel Román Rodriguez (Palma De Mallorca, Spain), Ilona McMullan, Michelle Warner, Christopher Compton, Raj Sharma, Ruth Tal-Singer, Meilan Han

PA543  Early treatment intervention and long-term management in COPD: a patient-focused analysis
Miguel Román Rodriguez (Palma De Mallorca, Spain), Ilona McMullan, Michelle Warner, Christopher Compton, Raj Sharma, Ruth Tal-Singer, Meilan Han

PA544  Mapping barriers to referral of COPD patients for pulmonary rehabilitation in the primary care setting using theoretical domain framework: a scoping review.
Viviana Orena Chávez (Cambridge, United Kingdom), Ellie O’Keeffe, Frances Early, Jonathan Fuld, Steve Morris

PA545  Personalized treatment through a Dry Powder inhaler device (DPI), adjustable to Chronic Obstructive Pulmonary Disease (COPD) patient’s respiratory profile
Konstantinos Zarogoulidis (Thessaloniki, Greece), Nikolaos Michailidis, Dimitra Siopi, Theodora Tsiodu, Anatoli Theodoridou, Ourania Koltisida, Aggeliki Rapti, Dimitrios Petrakis, Konstantinos Porphidas, Georgios Babalis, Savvas Petanidis, Diamantios Chloros

PA546  Home intervention for patients with moderate-severe COPD and co-morbidities by Pharmacists and Physicians: methods and baseline characteristics from a pilot RCT
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 Achia, Elaine Rankine, Bethany Stanley

PA547  Management of COPD Exacerbation, a Prediction tool for exacerbation in General Practitioners based Swiss Chronic Obstructive Pulmonary Disease (COPD) cohort
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  Mortality and readmission after COPD exacerbation-related hospitalization: an individual patient data meta-analysis

PA549  Relationship between Hemoglobin Concentration and Mortality in patients with COPD: a Nationwide Cohort Study in South Korea
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  Alveomic fingerprinting of acute inflammation in the human lung
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 Dhiwalal

PA551  Primary human type II alveolar cells cultured in human decellularized lung slices maintain phenotype and respond to TGF-B1 stimuli with altered ECM production
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  Late Breaking Abstract - Role of eosinophil mitochondrial function in severe eosinophilic asthma
Janice Koranteng (London, United Kingdom), Katie Raby, Piers Dixey, Sook Ling Lai, Peter Howarth, Kian Fan Chung, Charalampos Michaeloudes, Pankaj Bhavsar
High-content imaging assays to monitor the effects of cigarette smoke on mitochondrial health
Maria Karlsson (Västra Frölunda, Sweden), Tiitu Wennberg, Gabriel Skogberg, Johan Jirholt

COX-1-derived mediators in the functional interplay between bronchi and vessels
Ida Cerqua (Napoli, Italy), Elisabetta Granato, Antonietta Rossi, Maria Lopes Pires, Nicholas Kirkby, Jane Mitchell, Giuseppe Cirino, Fiorentina Roviezzo

Distinct expression of collagen IV chains; a potential marker to discriminate COPD phenotypes?
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

Pulmonary consequences of global and focal cerebral ischemia in rats
Petra Somogyi (Hódmezővásárhely, Hungary), Ibolya Toth, Bence Ballók, Zaid Hammad, Ramez A. Hussein, Fruzsina Kun-Szabó, Szilvia Kecskés, János Lückl, József Tolnai, Gergely H. Fodor, Eszter Farmák, Ferenc Peták

Nicola Compagnone (San Cipriano d'Aversa, Italy), Patrizia Rovere-Querini, Rebecca De Lorenzo, Cecilia Bussoiari, Giacomo Piacioni, Giordano Cirino, Fiorentina Roviezzo

Effects of vitamin D3 on human lung fibroblasts derived from patients with IPF
Tom Voisin (Rennes, France), Audrey Joannes, Claudie Morzadec, Dominique Lagadic-Gossman, Cécile Le Naoures, Bertrand Richard De Latour, Stéphane Jouveau, Lauret Vernhet

Induction of epithelial cellular senescence and pro-fibrotic changes in human precision-cut lung slices
Maria Camila Melo Narvaez (Munich, Germany), Mircea-Gabriel Stoleriu, Anne Hilgendorff, Claudia Staab-Weijnitz, Ali Önder Yildirim, Melanie Koenigshoff, Mareike Lehmann

Interaction of human lung mesenchymal cells with an elastin-derived extracellular matrix-like microenvironment
Arturo Ibáñez Fonseca (Lund, Sweden), Linnea Persson, Zackarias Söderlund, Måns Kedefors, Linda Elowsson, José Carlos Rodríguez-Cabello, Gunilla Westergren-Thorsson

Extracellular vesicles are taken up by airway epithelial cells through a dynamin-dependent mechanism
Justine Devulder (London, United Kingdom), Jonathan Baker, Susie Cao, Louise Donnelly, Peter Barnes

Mitochondrial transplantation reduces endothelial injury in the ARDS environment in vitro
Anna Krasnodebskaya (Belfast, United Kingdom), Dayene de Assis Fernandes Caldeira, Johnatas D Silva, Patricia R M Rocco, Pedro S Leme, Fernanda F Cruz

Effect of Galantamine on lipopolysaccharide-induced acute lung injury during neutropenia recovery in mice
Hyonsoo Joo (Seoul, Republic of Korea), Oh Beom Kwon, Seong Yong Lim, Jin Woo Kim

Omeg@Silica microparticles modulates p53 and cell proliferation in A549
Caterina Di Sano (Palermo, Italy), Claudia D'Anna, Rosaria Ciriminna, Mario Pagliaro, Elisabetta Pace

Rapamycin reduces oxidative stress-induced senescence by increasing sirtuin-1 in small airway epithelial cells
Faye Shrosbery (London, United Kingdom), Werngard Czechitsky, Louise Donnelly, Peter Barnes

Neutrophil extracellular traps drive lung remodelling in tuberculosis
Julia Kutschenreuter (London, United Kingdom), Ramila Cusman, Daniela E. Kirwan, Jon S. Friedland, Deborah L. W. Chong

Predictors for CPAP pressure titration in obstructive sleep apnea syndrome; could Baveno classification be helpful?
Ahmed Ehab (Schwalbach, Germany), Axel T. Kempa, Harald Englert, Shaza Almasri Bittar, Aida M. Yousef, Heba Wagih Abdelwahab

Usefulness of nocturnal oximetry (NOx) following positive airway pressure (PAP) initiation
Clara Bianquis (Saint-Prix, France), Vanessa Bironneau, Cécile Lomnier, Carole Philippe, Inès Zaien, Valérie Attal, Garance Vaillant, Bérénice Soyez, Stéphane Attard, Gum Suk Cabrillac, Isabelle Arnulf, Justine Frija-Masson, Maxime Patout
| PA572 | TRANSCUTANEOUS CAPNOGRAPHY AS A MONITOR OF POSITIVE AIRWAY PRESSURE TREATMENT  
Jorge Rodriguez Sanz (ZARAGOZA (SPAIN), Spain), María Aguado Agudo, Marta Miranda Hernández, Luisa Margarita Cabrera Pimentel, María Teresa Martín Carpi |
| PA573 | Prevention of obstructive apnea events with machine learning  
Hamed Hanafi (Halifax (NS), Canada), Julia Pafile, Meagan Sinclair, Kamal El-Sankary, Scott Lowe, Sagoev Oore, Stephen Driscoll, Thomas Penzel, Ingo Fietze, Sanjay Patel, Reena Mehra, Debra Morrison |
| PA574 | The efficiency of azelastine hydrochloride and fluticasone propionate nasal spray to improve PAP adherence in patients with obstructive sleep apnea  
Rachata Wongchan (Pathumthani., Thailand), Chatkarin Tepwimonpetkun, Jutarat Kitsongsermthon, Tunlanut Sapankaew, Kittiyot Yotsubot, Weasaratth Chittiwan |
| PA575 | 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  
Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Amar Shah, Swapna Mandal, Silvia Schievano, Eleanor Main |
| PA576 | Evaluation of CPAP adherence in non-obese and obese obstructive sleep apnoea patients  
Liam Chilton (Hull, United Kingdom), Harriet Hearn, Shoaib Faruqi |
| PA577 | Factors influencing the CPAP therapeutic adherence in women with obstructive sleep apnea (OSA)  
Bárbara Gracia Hernández (Huelva, Spain), Alberto González Hernández, Ana Belén Rodriguez Gómez, Jessiva Ivana Hilares Vera |
| PA578 | The efficiency of azelastine hydrochloride and fluticasone propionate nasal spray to improve PAP adherence in patients with obstructive sleep apnea  
Rachata Wongchan (Pathumthani., Thailand), Chatkarin Tepwimonpetkun, Jutarat Kitsongsermthon, Tunlanut Sapankaew, Kittiyot Yotsubot, Weasaratth Chittiwan |
| PA579 | 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  
Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Amar Shah, Swapna Mandal, Silvia Schievano, Eleanor Main |
| PA580 | Compliance with continuous positive airway pressure in the military: a Tunisian study  
Ines Moussa (Bizerte, Tunisia), Hana Mrassi, Islam Mejri, Marwa Kacem, Chiraz Aichaouia, Samira Mhamdi, Zied Moatemri |
| PA581 | Early predictors of long-term PAP compliance  
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce |
| PA582 | Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study  
Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin |
| PA583 | Health adherer effect and positive airway pressure therapy of obstructive sleep apnea  
Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Gioupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Philippe Masson, Aeyza Bizieux-Thamany, Nicolas Meslier, Sandrine Kerbrat, Frédéric Gagnadoux |
| PA584 | Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial  
Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz |
| PA585 | Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea  
Ahmed Dhia El Euch (Sfax, Tunisia), Amal Saidani, Fateh Kadardar, Mohamed Amine Ammar, Wiem Satouri, Hedi Ben Slima |
| PA586 | Early predictors of long-term PAP compliance  
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce |
| PA587 | Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study  
Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin |
| PA588 | Compliance with continuous positive airway pressure in the military: a Tunisian study  
Ines Moussa (Bizerte, Tunisia), Hana Mrassi, Islam Mejri, Marwa Kacem, Chiraz Aichaouia, Samira Mhamdi, Zied Moatemri |
| PA589 | Early predictors of long-term PAP compliance  
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce |
| PA590 | Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study  
Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin |
| PA591 | Health adherer effect and positive airway pressure therapy of obstructive sleep apnea  
Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Gioupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Philippe Masson, Aeyza Bizieux-Thamany, Nicolas Meslier, Sandrine Kerbrat, Frédéric Gagnadoux |
| PA592 | Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial  
Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz |
| PA593 | Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea  
Ahmed Dhia El Euch (Sfax, Tunisia), Amal Saidani, Fateh Kadardar, Mohamed Amine Ammar, Wiem Satouri, Hedi Ben Slima |
| PA594 | Early predictors of long-term PAP compliance  
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce |
| PA595 | Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study  
Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin |
| PA596 | Health adherer effect and positive airway pressure therapy of obstructive sleep apnea  
Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Gioupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Philippe Masson, Aeyza Bizieux-Thamany, Nicolas Meslier, Sandrine Kerbrat, Frédéric Gagnadoux |
| PA597 | Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial  
Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz |
| PA598 | Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea  
Ahmed Dhia El Euch (Sfax, Tunisia), Amal Saidani, Fateh Kadardar, Mohamed Amine Ammar, Wiem Satouri, Hedi Ben Slima |
| PA599 | Early predictors of long-term PAP compliance  
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce |
| PA600 | Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study  
Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin |
| PA601 | Health adherer effect and positive airway pressure therapy of obstructive sleep apnea  
Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Gioupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Philippe Masson, Aeyza Bizieux-Thamany, Nicolas Meslier, Sandrine Kerbrat, Frédéric Gagnadoux |
| PA602 | Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial  
Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz |
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

**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)

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

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

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

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

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

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

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

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

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

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

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

A new formulation of n-acetylcisteine, 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, Paola Pinto, 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 Grillot, 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 Holffeld (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 Kobližek (Hradec Králové, Czech Republic), Branislava Milenkovic, Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr, Miroslav Ille, Jelena Jankovic, Vojislav Cupurdija, Jiri Jarkovsky, Boris Popov, Arschang Valipour

PA611  Airway epithelial TSLP production is increased in COPD patients
Lynda SABER CHERIF (Reims, France), Maeva-A Devilliers, Jeanne-Marie Perotin, Julien Ancel, Delépine Gonzalez, Myriam Polette, Gaétan Deslee, Valérien 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 Härstedt, Andrei Malinovschi

PA613  Optimising research bronchoalveolar lavage in COPD and alpha-1 antitrypsin deficiency
Malcolm Herron (Dublin, Ireland), Daniel Fraughen, Suzanne Roche, Lasya Kanchi, Emma Leacy, Lamees 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
Jakka Määnpää (Möln达尔, 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), Meghshree 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, Taow Shuling Hu, Fuqaing Wen, Paul Jones, Nanshan Zhong

PA618  Associations between serum Humain levels and outcomes in stable COPD.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Paula Martin-Audera, Juan Agüero-Calvo, Mayte Garcia-Urzueta, 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, Haïfa Zaïbi, 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
Alia Zuban (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Mariana Kulynych-Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Iryna Makeyda, 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 (Athina, Greece), Maria Semitekolou, Ioannis Morianos, Myrto Blizou, Spyridon Papiris, 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 Ohita, Haruyuki Ishii

PA627 Could red cell distribution width predict COPD severity?
Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emma 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 safa, 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 Holtidirck, Nikolaus Kneidinger, Jürgen Behr, Hartmut Timmermann, Christian Schulz, Olaf Schmidt, Rainer Ehmann, 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 Lougheed, 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, Tina Skjold, Johannes Schmid

PA632 Mepolizumab long-term safety in severe eosinophilic asthma
Ian Douglas Pardow (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 Ishitii, Kazuki Katayama, Hitoshi Sato, Takahiro Uchida, Shun Shinomiya, Sachiko Miyauchi, Kazuyuki Nakagome, Hitoshi Nakamura, Makoto Nagata

PA634 A modified COMSA score is a good tool to identify responders and non-responders to mepolizumab in severe asthma
Valentina 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 Ehmann, Slagiana Stoshiki, Sonja Zehetmayer, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko
Patients with severe asthma reducing ICS treatment during treatment with biologicals do not have more frequent exacerbations.

Torben Smidt-Hansen (Stavtrup, Denmark), Helle H Andersen, Lene M Pedersen, Anne-Sofie Bjerrum, Tina Skjold, H.J. Hoffmann, Johannes Schmid

Factors predictive of poor adherence to treatment in patients with asthma

Aboubekr Imzil (Agadir, Morocco), Ossama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youssef Essaid, Fatiha Bounoua, Khadija Ait Nasser, Houssame Ennaciri, Sofiya Farhat, Hanane Ikrou, Nada Boutbagha, Houda Moubachir, Hind Serhane

Role of atopy in occupational asthma

Amira Belkahla (Tunis, Tunisia), Amira Belkahla, Dorra Brahim, Mariem Mersni, Imen Youssef, Najla Mechergui, Ghada Bahri, Hanene Ben Said, Soumaya Fenniche, Nizar Ladhari

Impact of smoking on biologicals treatment response in patients from the German Severe Asthma (GAN) Registry

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, Johannes Idzko

Impact of inhaled corticosteroids on specific inhalation challenges for diagnosing occupational asthma

Gabriel Lavoie (MONTREAL, Canada), Catherine Lemière

Impact of staphylococcus aureus enterotoxins on clinical responses to omalizumab in severe asthma patients

Wei-Ciao Wu (Taipei, Taiwan), Chih-Ming Weng, Han-Pin Kuo, Chun-Liang Chou

Assessement of the Healthcare Providers Knowledge, Practice and Attitudes Towards Allergen-Specific Immunotherapy

ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamedi, Zied Moatameri

Results of health education training for asthmatic patients: A prospective cohort study

Bandi Solongo (Ulaanbaatar, Mongolia), Gankhuyag Tumenulzii, Dansran Densenbal

Anti-IgE Ab treatment attenuates OVA-Ag-induced neutrophilic airway inflammation and IL-17 production in the lungs

Kazuyuki Nakagome (Moroyama, Iruma, Japan), Mitsuhiro Imamura, Masaaki Kawano, Kimito Kawahata, Rie Takagi, Hiroaki Harada, Makoto Dohi, Sho Matsushita, Makoto Nagata

Therapeutic effect and mechanism study of 35 kDa Progesterone-induced blocking factor for elderly female asthmatic patients

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

Late Breaking Abstract - Clinical remission with mepolizumab in severe asthma: impact of lung function parameters

John Oppenheimer (summit, United States), Teresa Carrillo Díaz, Eva Martinez Moragón, M. Guadalupe Sanchez Herrero, David Bahas Conejero, Geoffrey Chupp, Robert G Price, Alejandro Raimondi, Shiuyuan Zhang, Peter Howarth, Christian Domingo Ribas

Late Breaking Abstract - Comparability and usability of FeNO analyzers: a LEAD prospective general population study

Christina Bal (Wien, Austria), Marco Idzko, Caspar Schiphers, Maarten Van Herck, Sonja Zehetmayer, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal

Characterisation and burden of eosinophilic granulomatosis with polyangiitis in European patients by disease phase

Lee Baylis (ApeX, United States), Jeremiah Hwee, Lynn Hyuhn, Rafael Alfonso-Cristancho, Anamika Khanal, Mei Sheng Duh, Wassem Ahmed

Prevalence and disease burden of alpha-1 antitrypsin deficiency in Germany

Prasad Gawade (Boston, United States), Kuen-Cheh Yang, Ina Jazic, Christina Scirica, Zheng-Yi Zhou, Wenxi Tang

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)

Characterisation and burden of eosinophilic granulomatosis with polyangiitis in European patients by disease phase

Lee Baylis (ApeX, United States), Jeremiah Hwee, Lynn Hyuhn, Rafael Alfonso-Cristancho, Anamika Khanal, Mei Sheng Duh, Wassem Ahmed

Prevalence and disease burden of alpha-1 antitrypsin deficiency in Germany

Prasad Gawade (Boston, United States), Kuen-Cheh Yang, Ina Jazic, Christina Scirica, Zheng-Yi Zhou, Wenxi Tang
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 The Unbiased Biomarkers for the Prediction of Respiratory Disease Outcomes (U-BIOPRED) cohort.
Applying systems biology to reveal the mechanisms of severe asthma
Kian Fan Chung (London, United Kingdom) 668

08:45 The COPDGene® Study: investigating the underlying genetic factors of chronic obstructive pulmonary disease
MeiLan K. Han (Ann Arbor, United States) 669

09:00 Assessment of the involvement of small airways in asthma: the ATLANTIS study
Monica Kraft (New York, United States) 670

09:15 The NOVEL observational longITudinal studY (NOVELTY): real-world evidence on asthma and/or chronic obstructive pulmonary disease development
Alberto Papi (Cona, Ferrara, Italy) 671

09:30 Discussion and Q&A
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 Patient's perspective
Elizabeth Robertson (Maidenhead, United Kingdom) 673

08:35 Progressive pulmonary fibrosis. The burden of disease progression in fibrotic interstitial lung disease
Phil Molyneaux (London, United Kingdom) 674

08:50 Diagnostic challenges and biomarkers to profile progression. Time is gold
Anna Podolancezuk (New York, United States) 675

09:05 Cellular and molecular mechanisms involved in progression of pulmonary fibrosis
Moises Eduardo Selman Lama (Mexico, Mexico) 676

09:20 Therapeutic approach and challenges in PPF
Elisabeth Bendstrup (Aarhus N, Denmark) 677

09:35 Discussion and Q&A
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

08.09.2023
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)

**Session 75: Health effects of e-liquids, flavours and other chemicals**

08:30 - 08:45 | **Health effects of e-liquids, flavours and other chemicals**
Sven-Eric Jordt (Durham, NC, United States)

**08:45 - 09:00** | **Environmental damage caused by tobacco farming and manufacturing**
Selin Çakmakçı Karakaya (Ankara, Turkey)

09:00 - 09:15 | **Global burden of tobacco use**
Om Prakash Kurmi (Coventry, United Kingdom)

09:15 - 09:30 | **Greenwashing of the tobacco industry**
Elif Dagli (İstanbul, Turkey)

09:30 | **Discussion and Q&A**
All Speakers

**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: Raquel Duarte (Porto, Portugal), Emma Grainger (London, United Kingdom)

**Session 76: Acute respiratory infections in crisis affected populations**

08:30 - 08:45 | **Acute respiratory infections in crisis affected populations**
Giovanni Battista Migliori (Varese (VA), Italy)

08:45 - 09:00 | **Climate change and respiratory infections**
Carlos Robalo Cordeiro (Coimbra, Portugal)

09:00 - 09:15 | **Effect of climate changes and migration on infection in the paediatric population**
Marijke Proesmans (Leuven, Belgium)

09:15 - 09:30 | **Respiratory health in migrant populations**
Dennis Falzon (Genève, Switzerland)

09:30 | **Discussion and Q&A**
All Speakers

**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)  

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### Coral 2  
**Session 77 08:30 - 10:00**

**Symposium: Lung consequences of the obesity epidemic from children to the elderly**

**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 The immune system and obesity-related asthma: what is the link?  
Deepa Rastogi (Bronx, United States)  

#### 08:45 Obesity in children and its relationship with sleep  
Indra Narang (Toronto (ON), Canada)  

#### 09:00 Why childhood obesity causes respiratory diseases  
Erick Forno (Indianapolis, United States)  

#### 09:15 Metabolic determinants of asthma and COPD across ages  
Miguel Angel Alejandre Alcázar (Köln, Germany)  

#### 09:30 Discussion and Q&A  
All Speakers

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**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 :
Elżbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

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

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<td>08:30</td>
<td>Discussion and Q&amp;A</td>
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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)

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

**Population health model predicting the long-term impact of sotatercept on morbidity and mortality in patients with Pulmonary Arterial Hypertension (PAH)**

Vallerie McLaughlin (Ann Arbor, United States), Adnan Alsumali, Rogier Klok, Rongzhe Liu, Eliana Martinez, Jestinah Chevure, Janethe De Oliveira Pena, Dominik Lautsch, Marius Hoeper

**Long term outcome in chronic thromboembolic pulmonary hypertension in the multimodality treatment era: a UK national cohort analysis**

Paula Appenzeller (Zürich, Switzerland), Ashwin Reddy, Katherine BuncClark, John Cannon, Karen Shears, Mark Toshner, Dolores Taboada, Stephen Hoole, Gery Coghlan, David Jenkins, Choo Ng, John Taghavi, Steven Tsui, Nick Sereaton, Alessandro Rugiero, Luigia D’Errico, Joanna Pepke-Zaba

**Seralutinib improves pulmonary arterial blood vessel volume distribution in pulmonary arterial hypertension (PAH): results of the TORREY phase 2 imaging substudy**


**External validation of the European cardiac magnetic resonance risk stratification in the Amsterdam UMC PAH patient cohort**


**Subtypes of pulmonary hypertension: gas uptake to lung capillaries and lung microstructure assessed by 129Xe MRI**

Agilo Luitger Kern (Hannover, Germany), Da-Hee Park, Jan Fuge, Jens M. Hohlfeld, Frank Wacker, Karen M. Olsson, Marius M. Hoeper, Jens Vogel-Claussen

**Prediction of revised pulmonary hypertension hemodynamic thresholds using 4D flow MRI**

Deepa Gopalan (LONDON, United Kingdom), Kai’En Leong, William Auger, Peter Lindholm

**Comparison of risk stratification models for prediction of mortality in SSC-PAH in EUSTAR**


**Long-term outcome of patients with combined post- and precapillary pulmonary hypertension**

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

**Altitude related adverse effect and therapeutic benefit of supplemental oxygen in patients with pulmonary vascular disease during an overnight stay at 2500m**

Simon Raphael Schneider (Zürich, Switzerland), Julian Müller, Meret Bauer, Laura Mayer, Lea Lüönd, Tanja Ulrich, Michael Furian, Aelina Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich

**Discussion and Q&A**

All Speakers

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**ORAL PRESENTATION**

**Session 97  09:30 - 10:45**

**Brown 3**

**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)

**Late Breaking Abstract - Accuracy of respiratory gas variables, of fifteen CPET systems during simulated exercise with metabolic simulator.**

Tjeu Souren (Utrecht, Netherlands), Bas Van Hooren, Bart Bongers

**Title Comparing the use of global lung initiative 2012 vs 2021 predicted values on vital capacity in idiopathic pulmonary fibrosis (IPF) patients.**

Kate Donovan (Cambridge, United Kingdom), Joshua Barnes, Karl Sylvester
Reference equations for intra-breath respiratory oscillometry in adults
Chiara Veneroni (Milano (MI), Italy), Alessandro Gobbi, Pasquale Pio Pomplilio, Raffaele Dellaca, Salvatore Fasola, Stefania La Grutta, Agustin Leyva, Janos Porszasz, Silvia Romana Stornelli, Leonello Fusco, Christoph Valach, Robab Breyer-Kohansal, Chiara Contu, Riccardo Inchingolo, Kevin Hodgdon, David A. Kaminsky

Respiratory system oscillometric resistance decreases over time in idiopathic pulmonary fibrosis
Pauline Tossan (Tours, France), Stéphanie Dirou, Wemeau Lidwine, Chambellan Arnaud, Perez Thierry, Chenivesse Cécile, Bokov Plamen, Bayeh Bestega, Marchand-Adam Sylvain, Guichard Elie, Plantier Laurent

Comparison of forced oscillation technique (FOT) with spirometry measures in acute asthma
Paula Cristina Andrade Almeida (Aracaju (SE), Brazil), Mouaid Aljehani, Matthew J. Martin, Tim W. Harrison

The effect of breathing pattern on airway resistance and reactance using forced oscillation technique (FOT)
Mark Howlett-Foster (Cambridge, United Kingdom), Ella O'Neill, Karl Sylvester

Effects of renewed ERS/ATS criteria on classification of significant bronchodilator response
Nena Rokx (Nijmegen, Netherlands), Jeannette B. Peters, Hieronymous W. H. Van Hees, Bram Van Den Borst, Alex J. Van 'T Hul, Hanneke A. C. Van Helvoort

Bronchodilator response discordance in patients with asthma and/or COPD using Xe-MRI and spirometry
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

Weight associates positively with FeNO in adult females but not males in a large healthy population-based sample
Tiago Jacinto (São João de Ver, Portugal), Rita Amaral, João Fonseca, Kjell Alving

An alternative non-invasive indicator to respiratory exchange ratio for exercise effort.
Patrick Jak (Diemen, Netherlands)

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

Oral presentation: Improving respiratory care from a primary care perspective

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

Late Breaking Abstract - Improving the diagnosis of breathlessness in primary care: development and implementation of the “Breathlessness Diagnostics in a Box” (BiaB)

Developing a clinical pathway for breathlessness in primary care based on analysis of routine primary care data
Christine Jenkins (McMahons Point (NSW), Australia), Anthony Paulo Sunjaya, Allison Martin, Gian Luca Di Tanna, Christopher Gianacas, Clare Arnott, Guy Marks

Building a diagnostic picture of asthma in primary care: A novel ‘jigsaw puzzle’ approach
Dermot Ryan (Derby (Derbyshire), United Kingdom), Siân Williams, Janwillem Kocks, Jaime Correia De Sousa

Insights into spirometry usage and the potential for AI-based decision support software in Belgian primary care
Marko Topalovic (Kessel-lo, Belgium), Maarten De Vos, Julie Maes, Karolien Van Orshoven, Paul Desbordes, Vincent Vanheule, Charlotte Quataert, Isabelle Fovel

The clinical presentation of tuberculosis in English primary care
Farah Kidy (Coventry (United Kingdom), Noel Mccarthy, Krishna Nirantharakumar, Shamil Haroon

Sonographic follow-up of diaphragm function in COVID-19: an exploratory study
Wytze de Boer (Zwolle, Netherlands), Carlijn Veldman, Mireille Edens, Huib Kerstjens, Jan Willem Van Den Berg

The role of the asthma nurse educator in identifying severe asthma in primary care.
Holly Minshall (Stoke, United Kingdom), Angela Cooper, Elifatih Idris
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

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

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

Discussion and Q&A
All Speakers

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

Basophils inhibit tumors by suppressing Tregs
Nahal Mansouri (Lausanne, Switzerland), Bruno Torchia, Simge Yucel, Christophe Von Garnier, Michele De Palma

Decoding the epithelial-T helper cell signalling axis in human asthmatic airways one cell at a time
Amanda Oliver (Cambridge, United Kingdom), Elo Madissoon, Waradon Sungnak, Marijn Berg, Rakesh Kapuge, Laura Richardson, Claudi Semprich, Anna Wilbrey-Clark, Tessa Gillet, Kerstin Meyer, Martijn Nawijn, Sarah Teichmann

Unveiling the role of Isthmin-1 in allergic asthma: Implications for therapeutic interventions
Jong Huat Tee (Singapore, Singapore), Udhayaya Vijayakumar, Mahalakshmi Shanmugasundaram, Terence Yin Weng Lam, Wupeng Liao, Yuan Sheng Yang, Wai Shiu Fred Wong, Ruowen Ge

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

Crosstalk between memory B cells and fibroblasts contributes to COPD pathogenesis
Ken Bracke (Ghent, Belgium), Merel Jacobs, Jaspere Anckaert, Alen Faiz, Femke Van Gaever, Sven Verschaeghen, Bihiyga Salhi, Tinus Schynkel, Koen Venken, Dirk Elewaut, Phil Hansbro, Guy Bruselle, Pieter Mestdagh, Leen Seys

Dendritic cells are defective for improving survival in lung adenocarcinoma
Heloisa Accurcio Zimmermann (Ribeirão Preto, Brazil), Sabrina Setembre Batah, Maria Júlia Faci Do Marco, Mateus Magalhães Lage Moraes, Danilo Tadão Wada, Saulo Brito Silva, Alexandre Todorovic Fabro

IL36γ 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

Mapping of eosinophils, immune cell profiles, and microbes in COPD lung tissue
Caroline Lindö (Lund, Sweden), Premkumar Siddharaj, Renan Mauch, Jimmie Jönsson, Johan Ahlgren, Pajakta Jogdand, Cecilia Andersson, Jennifer Cann, Christopher Nazaroff, Sandra Lindstedt, Thais Mauad, Caroline Sandén, Christopher MacRae, Jonas S Erjfeldt

Discussion and Q&A
All Speakers

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)

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**
**Title:** Late Breaking Abstract - CLUSTERING ARDS PATIENTS THROUGH THE FIRST DAYS OF ICU ADMISSION.
**Authors:** Adrian Ceccato (Barcelona, Spain), Carles Forne, Lieuwe D. Bos, Marta Camprubi, Aina Arenal, Elena Campaña, Sara Quero, Emilio Díaz, Oriol Roca, David De Gonzalo-Calvo, Laia Fernandez Barat, Anna Motos, Ricard Ferrer, Jordi Riera, Jose Angel Lorente, Oscar Peñuelas, Rosario Menendez, Jesus Bermejó, Ferran Barbe, Antonio Artigas, Antoni Torres

**OA783**
**Title:** Late Breaking Abstract - Transcriptome profiling of persistent ICU-acquired weakness in a cohort of ARDS survivors
**Authors:** Israel David Duarte Herrera (Oviedo, Spain), Karla Miravete-Llagunes, Cecilia López-Martínez, Sara M Exoo-Jamirez, Paula Martin-Vicente, Marcelino González Iglesias, Raquel Rodriguez García, Ana García De Alaz, Margarita Fernández-Rodriguez, Elisa Cuesta-Llavana, Sergio Pérez-Oliveira, Juan Gómez De Oña, Eliecer Coto, Inés López-Alonso, Diego Parrá-Ruiz, Guillermo M Albaiceta, Laura Amado-Rodriguez

**OA784**
**Title:** The association between respiratory effort parameters during the first 48 hours with clinical outcomes in mechanically ventilated patients: A prospective observational study.
**Authors:** Phruet Sopetkasem (bangkok, Thailand), Detajin Junhasavasdikul, Yuda Sutherasan, Pongdhep Theerawit

**OA785**
**Title:** Differences in nosocomial infections in patients on VV-ECMO for COVID-19 and Influenza
**Authors:** 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 Diemann, Bernd Salzberger, Matthias Lubnow

**OA786**
**Title:** Vilobelimab’s effect on mortality in severe COVID-19 ARDS patients: Phase 3 RCT
**Authors:** Endry Lim (Amsterdam, Netherlands), Alexander Vlaar, Djillali Annane, Martin Witzenmann, Michael Bauer, Leo Heunks, Bruno Mourvillier, Vasquez Luis Herculia, Tobias Welte, Peter 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 Zeribib, Dorothee Neukirchen, Renfeng Guo, Diedrik Van De Beek, Niels Riedemann

**OA787**
**Title:** Dead-space ventilation indices and mortality in acute respiratory distress syndrome: a systematic review and meta-analysis.
**Authors:** Dilip Jayasimhan (Hamilton, New Zealand), Jennifer Chieng, John Kolbe, David Sibidoboth

**OA788**
**Title:** long-term outcomes in critical covid-19 survivors: a 2-year longitudinal cohort
**Authors:** Jessica Gonzalez Gutierrez (Leida, Spain), Maria Zuil, Iván D. Benitez, Jordi De Batlle, Maria Aguiar, Sally Santistevé, Natalia Varvará, Aida Monge, Nuria Forns, Rafaela Vacar, Olga Minguez, Faty Seck, Clara Gort-Paniello, Anna Moncusi-Moix, Ricard Ferrer, Adrián Ceccato, Laia Fernández, Ana Motos, Jordi Riera, Rosario Menéndez, Dario Garcia-Gasulla, Oscar Peñuelas, Gonzalo Labarca, Jesús Caballero, Carmen Barberi, David De Gonzalo-Calvo, Antoni Torres, Ferran Barbé

**OA789**
**Title:** Lung microbiota compositions differ between influenza, COVID-19 and bacteria-related acute respiratory distress syndrome
**Authors:** Renaud Prèvel (Bordeaux, France), Sébastien Imbert, Raphaël Enaud, Mathilde Revers, Arthur Orieux, Florian Lussac-Sorton, Adrian Camino, Alexandre Massri, Laurent Villeneuve, Cédric Carrière, Laurent Petit, Alexandre Boyer, Patrick Berger, Didier Guéna, Laurent Delhaes

**OA790**
**Title:** Tranexamic acid to treat hemoptysis in real life (ATHENE study)
**Authors:** Marie Gaffier (PARIS, France), Annabelle Beaudoin, Emilie Lanoy, Vincent Rothstein, Amer Hamdan, Thibaud Soumagne, Olivier Sanchez, Benjamin Planquette

**OA791**
**Title:** Discussion and Q&A
**Authors:** All Speakers

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**Gold Session 101**

**Title:** 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)
### 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)

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<thead>
<tr>
<th>Case</th>
<th>Author/Panel Discussion</th>
<th>Discussant(s)</th>
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<tbody>
<tr>
<td>1</td>
<td>Acetazolamide to prevent impending altitude-related adverse health effects in COPD patients. RCT</td>
<td>Michael Hurian (Zurich, Switzerland), Aurelia Reiser, Maamed Mademilov, Konstantinos Bitos, Simone Buentzi, Ainura Abdreva, Benoit Champigneulle, Arcangelo Carta, Meret Bauer, Tanja Ulrich, Julian Mueller, Mirjam Grimm, Simon Schneider, Nurvin Shahkiv, Ayjan Taalabekova, A Ozonova, Kamilla Magdeva, Gulzada Mirzaliyea, A Akyklebok, S Shabykeeya, Talant Sooronbaev, Silvia Ulrich, Konrad Bloch</td>
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<td>2</td>
<td>High-dose (40 mg) versus low-dose (20 mg) prednisolone for treating sarcoidosis: a randomised trial (SARCORT trial)</td>
<td>Sahajal Dhoooria (Chandigarh, India), Inderpaul Singh Sehgal, Ritesh Agarwal, Kuruswamy Thrish Prasad, Ashutos Nath Aggarwal</td>
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<td>3</td>
<td>Reduction of maintenance inhaled corticosteroids in patients with severe eosinophilic asthma treated with benralizumab: a randomised phase 4 study</td>
<td>David J Jackson (London, United Kingdom), Liam G Heaney, Marc Humbert, Brian D Kent, Linda Hiljemark, Lynda Olinger, David Cohen, Andrew Menzies-Gow, Stephanie Korn</td>
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<td>4</td>
<td>BMS-96278 for progressive pulmonary fibrosis (PPF): results from a phase 2 randomized controlled trial</td>
<td>Tamara Corte (Camperdown (NSW), Australia), Jürgen Behr, Vincent Cottin, Marilynn K. Glassberg, Michael Kreuter, Fernando Martinez, Takashiki Ogura, Takaufumi Suda, Marlies Wijsenbeek, Brandon Elpers, Sinad K, Hideaki Watanabe, Aryeh Fischer, Toby M, Maher</td>
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<td>5</td>
<td>Safety and efficacy of idrevloride in people with primary ciliary dyskinesia: a double-blind, randomized, placebo-controlled crossover trial (CLEAN-PCD)</td>
<td>Thomas Ferkol (Chapel Hill, United States), Felix C Ringhausen, Adam J Shapiro, Kim G Niels, Henryk Mazurek, Massimo Pifferi, Karl H Donn, Menno M Van Der Eerden, Michael R Loebinger, Maimouna A Zariwala, Margaret W Leigh, Michael R Knowles</td>
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<td>6</td>
<td>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</td>
<td>Göran Dellgren (Göteborg, Sweden), Thomas Kromann Lund, Peter Raivio, Inga Leuckfeld, Johan Svahn, Erik C. Holmberg, Peter Skov Olsen, Maija Halme, Arnt Fiane, Sandra Lindstedt, Gerold C. Riise, Jesper Magnusson</td>
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**Wrap-up by discussant and discussion**

**Closing remarks**

All Speakers
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 Defining disease modification in PAH
Sandeep Sahay (Houston, United States)

10:30 Are approved PAH drugs disease-modifying?
Olivier Sitbon (Le Kremlin-Bicêtre, France)

10:45 Sotatercept for the treatment of PAH: an update
Marius M. Hoeper (Hannover, Germany)

11:00 Moving the field forward: novel pathways and targets for reverse remodelling
Soni Savai Pullamsetti (Giessen, Germany)

11:15 Discussion and Q&A
All Speakers

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: Raquel Duarte (Porto, Portugal), Emma Grainger (London, United Kingdom)

10:15 CFTR modulator therapy: transforming the landscape of clinical care in cystic fibrosis
Damian Downey (Belfast, United Kingdom)

10:30 Understanding and addressing the needs of people with cystic fibrosis in the era of highly effective CFTR modulator therapy
Katherine Hisert (Denver, United States)

10:45 The future of cystic fibrosis treatment: from disease mechanisms to novel therapeutic approaches
Marcus Mall (Berlin, Germany)

11:00 The future of clinical trials in cystic fibrosis
Nicole Mayer-Hamblett (Seattle, United States)

11:15 Discussion and Q&A
All Speakers

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)

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

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<tr>
<th>10:15</th>
<th>Pathophysiological mechanism linking obesity and lung dysfunction: from childhood to adults</th>
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<td>Stefania Redolfi (Cagliari, Italy)</td>
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<th>10:30</th>
<th>Mechanics of the lungs and chest wall in obesity and respiratory compliance</th>
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<td>Anne Dixon (Charlotte, United States)</td>
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<th>10:45</th>
<th>Crosstalk between the gut microbiota and lung diseases</th>
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<td>Niki Ubags (Epalinges, Switzerland)</td>
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<th>11:00</th>
<th>Obesity and sleep-related hypoventilation: new perspectives for clinical management and therapeutic interventions</th>
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<td>Juan Fernando Masa Jiménez (Cáceres, Spain)</td>
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<th>11:15</th>
<th>Discussion and Q&amp;A</th>
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<td>All Speakers</td>
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ERS International Congress 2023

DETAILED PROGRAMME

SUNDAY 10 SEPTEMBER, 2023
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 the patient 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: Elżbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

10:15  Patients with respiratory failure: how to make a bronchoscopic procedure still possible?
Szymon Skoczyński (Katowice, Poland)

10:30  Bronchoscopy in highly contagious lung infections: what lessons did we learn from COVID-19?
Lina Zuccatosta (Torrette (AN), Italy)

10:45  Bleeding from the airways: spontaneous or a complication of interventional procedures. What to do?
Samira Shojaee (Nashville, United States)

11:00  Discussion and Q&A
All Speakers
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 Introduction
All Speakers

10:40 Physical activity assessment and intervention
Henrik Watz (Großhansdorf, Germany)

10:40 Neuromuscular electrical stimulation: in who and how?
Roy Meys (Horn, Netherlands)

10:40 How to improve balance and reduce falls in people undergoing pulmonary rehabilitation
Marla Beauchamp (Hamilton, Canada)

10:40 Implementing mindfulness interventions into pulmonary rehabilitation
Alice Malpass (Bristol, United Kingdom)

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

Skills workshop: SW17 SW17 - 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 Introduction
All Speakers

10:40 Assessment of diastolic function in COPD patients
Valentina Mercurio (Napoli, Italy)

10:40 Cardiac ultrasound assessment of right heart function
Paul M. Hassoun (Baltimore, United States)

10:40 Cardiac ultrasound for the management of pulmonary embolism
Mario Gerges (Vienna, Austria)

10:40 Hemodynamic consequences of non-invasive ventilation
Bouchra Lamia (Le Havre, France)

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 (Dniepropetrovsk, Ukraine)
Late Breaking Abstract - A pilot study of telemonitoring to detect acute exacerbations in fibrosing interstitial lung diseases
Yuanyuan Jia (YinChuan, China), Hongyan Fu, Juan Chen

The automated e-Lung CT algorithm is more prognostic than lung function in patients with non IPF fibrotic ILD; a validation study
Peter George (London, United Kingdom), Christian Rennison-Jones, Giacomo Benvenuti, Wassim Bou-Zeid, Olivier Joly, Stephen Gerry, Claire Fernandez, George Harston, Anand Devaraj

Dendritic cells as a potential new tool in predicting patient's survival 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 Verner Antunes Cetlin, Marcel Koenigkam Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro

Electronic nose technology detects connective tissue disease-associated interstitial lung disease
Karen Moor (Rotterdam, Netherlands), Iris G. Van Der Sar, Marlies S. Wijsenbeek

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
Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoît Ernst, Clio Ribbens, Béatrice André, Renaud Louis, Leticia Gallardo Estrella, Jonne Engelberts, Jean-Paul Charbonnier

Unveiling common molecular pathways linked to ILDs with progressive fibrosing phenotype: the role of MUC5B promoter variants
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, Luis Delgado, Miguel Soares, Natália Melo, André Terras Alexandre, António Morais, Margarida Saraiva

Novel e-Lung CT biomarkers combine to provide higher prognostic discrimination than FVC in patients with non-IPF fibrotic interstitial lung disease
Peter George (London, United Kingdom), Giacomo Benvenuti, Christian Rennison-Jones, Wassim Bou-Zeid, Olivier Joly, Stephen Gerry, Claire Fernandez, George Harston, Anand Devaraj

Skin transcriptomes link severity of skin involvement and lung function impairment in systemic sclerosis
Jana Zielonka (New Haven, United States), Ningshan Li, Zuoheng Wang, Xiting Yan, Jose Gomez

Progression of interstitial lung disease in systemic sclerosis does not predict further progression
Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelytska, Håvard Fretheim, Imon Barua, Hilde Bjørkøjær, Mike Becker, Cathrine Brunborg, Cosimo Bruno, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midveldt, Carina Mihai, Øyvind Molberg, Oliver Distler

Rheumatoid arthritis and idiopathic pulmonary fibrosis: a bidirectional Mendelian randomisation study
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

Discussion and Q&A
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 Öner Önyüboğlu (Ankara, Turkey)

Late Breaking Abstract - Global treatment outcomes of extensively drug-resistant tuberculosis in adults: A systematic review and meta-analysis
Ole Skouvig Pedersen (Aarhus C, Denmark), Freja Breth Holmgaard, Mads Kristian Duborg Mikkelsen, Cristoph Lange, Giovanni Sotgiu, Troels Lillebaek, Aase Bengaard Andersen, Christian Morberg Wejsø, Victor Nasetholt Dahl

DLCO, spirometry and PET/CT findings after completing tuberculosis treatment - preliminary findings of StatinTB/ExtendTB trial
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
Tuberculosis drives impaired lung function: a systematic review and meta-analysis
Shareena 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

PET-CT reveals sites yielding culturable Mycobacterium tuberculosis infection in household TB contacts with a clinical phenotype of latent infection: A descriptive case series
Jee Whang Kim (Leicester, United Kingdom), Joanne Lee, Ismail Nowsarka, Gerrit Woltmann, Raman Verma, Anver Kamil, Pranabashis Haldar

Diagnostic accuracy of TB PCR in bronchoalveolar lavage samples, TRiBE - a multicentre prospective UK study
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, Om Min Kon

Programmatic management of bedaquiline-pretomanid-linezolid regimens in Georgia.
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Tamar Togonidze, Lali Mikiashvili

2 versus 3-drug regimen to treat Mycobacterium avium complex infection: a systematic review and meta-analysis
Dong Nguyen Van (Danang, Vietnam), Hai Duong, Ming-Chia Lee, Chih-Hsin Lee

Electronic nose in differentiating and ascertaining clinical status among patients with pulmonary nontuberculous mycobacteria: a prospective multicenter study
Jann-Yuan Wang (Taipei, Taiwan), Meng-Rui Lee, Hung-Ling Huang

Diagnostic accuracy of TB PCR in bronchoalveolar lavage samples, TRiBE - a multicentre prospective UK study
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, Om Min Kon

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Jann-Yuan Wang (Taipei, Taiwan), Meng-Rui Lee, Hung-Ling Huang

Longitudinal lung function in bronchiectasis patients with mycobacterium abscessus pulmonary disease
Ying Na Ho (Singapore, Singapore), Keith Zhi Xian Toh, John Arputhan Abisheganaden, Albert Yick Hou Lim

Discussion and Q&A
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)

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

New race neutral GLI equation impacts ethnic groups differently!
Ahmed Elmahy (Leuven, Belgium), Julie Maes, Paul Desbordes, Maarten De Vos, Marko Topalovic

Effect of altitude on spirometry values in Latin American: A GLI Network ERS Clinical Research Collaboration

Effect of changes in ERS-ATS 2021 bronchodilator significance reclassification on a large Australian community cohort
Thomas Ledger (Sydney, Australia), Keith Burgess

Effect of altitude on spirometry values in Latin American: A GLI Network ERS Clinical Research Collaboration

Machine learning can predict patterns of pulmonary function
Michael Tisi (Toronto, Canada), Joyce Wu, Zoltán Hantos, Shahrokh Valaece, Chung-Wai Chow

Minimal Clinically Important Difference for Impulse Oscillometry in Adults with Asthma
Mustafa Abdo (Grosshansdorf, Germany), Anne Kirsten, Erika Von Mutius, Matthias Kopp, Gesine Hansen, Klaus F Rabe, Henrik Watz, Frederik Trinkmann, Thomas Bahmer

How sensitive are reversibility criteria in paediatric and adult asthma?
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Paul Burns, Adel Mansur, Maximillian Thomas
### 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)

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<td>Late Breaking Abstract - Colostrum microbiome and childhood allergy</td>
<td>Caroline Lodge (Melbourne (VIC), Australia), Adrian Lowe, Xin Dai, Michael Abramson, Dharmage Shyamali</td>
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<td>Profiles of pregnancy and early-life urban and lifestyle exposures and respiratory health in children</td>
<td>Alicia Guillien (LA TRONCHE, France), Rémy Slama, Maribel Casas, Leda Chatzi, Montserrat De Castro, Berit Granum, Regina Grazuleviene, 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</td>
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<td>Risk of asthma in offspring of asthmatic fathers versus mothers: A population-based study of 21,000 individuals in Denmark</td>
<td>Morten Dahl (Køge, Denmark), Suzan Al-Shuweli, Eskild M. Landt, Christina Ellervik, Henrik E. Poulsen, Ramar Mohankumar, Alexey Fedulov</td>
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<td>Gabapentinoids and the risk of severe exacerbations in patients with chronic obstructive pulmonary disease</td>
<td>Alvi Rahman (Montreal, Canada), Sophie Dell’Aniello, Erica Moodie, Madeleine Durand, Janie Coulombe, Jean-François Boivin, Pierre Ernst, Christel Renoux</td>
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<td>Long-term outcomes between adults with and without breathlessness: a UK cohort study</td>
<td>Urvee Karsanji (London, United Kingdom), Claire A Lawson, Emily Petherick, Jennifer K Quint, Kamlesh Khunti, Michael C Steiner, Rachael A Evans</td>
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<td>Fetal exposure to vitamin D and risk of altered lung function and asthma throughout childhood: a meta-analysis of 14,000 children</td>
<td>Júlia Sangüesa (Sant Cugat del Vallès, Spain), Tarik Karramas, Mariona Bustamante, Dolores Pelegri, Raquel Granell, Matt Boyton, Rachel Foong, Jennie Carson, Rae-Chi Huang, John Curtin, Martine Vrijheid, Maribel Casas, Liesbeth Duijts</td>
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<td>Treatment intensity level as a proxy for severity of COPD: A nationwide cohort study</td>
<td>Marie Dam Lauridsen (Aalborg, Denmark), Emil Fosbol, Søren Paaske Johnsen, Ulla Weinreich Møller, Jan Valentin</td>
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<td>Respiratory symptom clusters and cause-specific mortality in a representative adult population</td>
<td>Danil Lisik (Gothenburg, Sweden), Lowie Vanfleteren, Rani Basna, Linnea Hedman, Linda Ekerljung, Fredrik Nyberg, Göran Wennergren, Anne Lindberg, Hannu Kankaanranta, Eva Rönnmark, Bright Nwaru, Helena Backman</td>
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<td>Long-term air pollution exposure and risk of SARS-CoV-2 infection: A UK-wide cohort study</td>
<td>Hajar Hajmohammadi (London, United Kingdom), Mohammad Talaei, Daniela Fecht, Wei Yi Wang, Giulia Vivaldi, Sian Faustini, Alex Richter, Seif Shaheen, Adrian Martineau, Aziz Sheikh, Ian Mudway, Christopher Griffiths</td>
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<td>Lifetime body mass index trajectories and lung function and chronic obstructive pulmonary disease in the Tasmanian longitudinal health study (TAHS)</td>
<td>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</td>
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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 Schwarz, Catlin Fermyoile, 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 Lilía (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 Kishihita, Noriaki Iwase, Kenichi Arai, Masahiro Kojima, Kenji Nishikawa, Eiji Okanari, Yuuko Shinohara

OA899 Dual αVβ6/αVβ1 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, Maeva 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 prematurity; 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)

### Schedule

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

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**Poster session: Rehabilitation of chronic respiratory diseases**

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<td>Method(s)</td>
<td>Pulmonary rehabilitation</td>
<td>General respiratory patient care</td>
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<td>Surgery</td>
<td>Pulmonary function testing</td>
<td>Epidemiology</td>
<td>Public health</td>
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**Tag(s)**: Clinical

**Chairs**: Anouk W. Vaes (Horn, Netherlands), Jennifer Alison (Killara (NSW), Australia)

**PA951**
- Body Reprogramming for the extra-pulmonary symptoms of severe asthma
  - Joseph Lanario (Plymouth (Devon), United Kingdom), Drew Davies, Michael Hyland, Rupert Jones, Matthew Masoli

**PA952**
- Patient views on pulmonary rehabilitation and maintenance programs: a French national survey
  - Francois Alexandre (Lodeve, France), Virginie Molinier, Amandine Calvat, Laurène Charbonnel, Benjamin Eichenauer, Magali Poulain, Estelle Villiot-Danger, Catherine Miffre, Nicolas Oliver, Nelly Héraud

**PA953**
- Occupational asthma and allergic asthma: differences in the physical activity level, clinical control, and airway inflammation
  - Ronaldo Aparecido Da Silva (São Paulo (SP), Brazil), Lucas Rodrigues Silva Freitas, Francine Maria De Almeida, Clôvis Eduardo Santos Galvão, Soraia Felix Nogueira, Suellen Karoline Moreira Bezerra, Celso Ricardo Fernandes De Carvalho, Kaitque Alves De Araujo, Fabiola Matos Da Cruz, Rosana Câmara Agondi, Milton Arruda Martins, Iolanda De Fátima Lopes Calvo Tibério, Beatriz Manguereira Saraiva-Romanholo

**PA954**
- Rehabilitation outcomes for an exercise based multi-morbid rehabilitation programme – a survey of healthcare professionals
  - Sally J. Singh (Leicester (Leicestershire), United Kingdom), Susan Smith, Frances Mair, Rachael Evans, Paulina Daw, Colin Greaves, Sharon Simpson, Rod Taylor

**PA955**
- Effect of adding cognitive training to pulmonary rehabilitation program in patients with chronic obstructive pulmonary diseases: a randomized controlled trial.
  - oussama Tabka (Evry courcouronnes, France), Marwa Mekki, Amal Acheche, Monia Zouali, Yassine Trabelsi
Comparison of the effects of pulmonary and cognitive telerehabilitation in severe COPD
Amine Atac (Istanbul, Turkey), Esra Pehlivan, Fulya Senem Karahmetoglu, Zeynep Betul Ozcan, Halit Cnarka, Mustafa Cortuk, Kursad Nuri Baydili, Erdogan Cetinkaya

Chronic obstructive pulmonary disease in elderly
Sabrine Majdoub Fehri (Nabeul, Tunisia), Rahma Sellami, Inen Ketata, Hamida Kwass

Breathlessness and disability in different domains of life: a population-based, cross-sectional study
Vanessa Brunelli (Cooma, Australia), Slavica Kochovska, Diana Ferreira, Sungwon Chang, Deidre Morgan, Thomas Similowski, Miriam Johnson, Magnus Ekström, David Currow

Feasibility of a shared decision-making intervention for individuals with COPD considering Pulmonary Rehabilitation
Sally J. Singh (Leicester (Leicestershire), United Kingdom), Amy Barradell, Hilary Bekker, Linzy Houchen-Wolloff, Kim Marshall-Nichols, Noelle Robertson

Effects of a respiratory physiotherapy program on extraesophageal reflux disease symptoms
Pavla Horova (Pardubice, Czech Republic), Martin Dvoracek, Ana Oliveira, Katerina Raisova

An overview of systematic reviews of exercise-based interventions for people with long-term conditions
Lucy Gardiner (Leicester, United Kingdom), Grace O Dibben, Hannah M L Young, Sally Singh, Rod S Taylor, Perform Collaborative Group

Correlation between a new incremental step test and the incremental shuttle walk test in people with COPD
Rui Vilarinho (Maia, Portugal), Tânia Gonçalves, Cátia Caneiras, António Mesquita Montes

Comprehensive Geriatric Assessment for people with COPD and frailty starting pulmonary rehabilitation: a mixed methods feasibility RCT
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

Educational needs of patients with COPD and asthma entering pulmonary rehabilitation and their significant others: a cross-sectional study
Anouk Jacoba Muijsenberg (Horn, Netherlands), Sarah Houben-Wilke, Jan Tatousek, Joyce Lacroix, Martijn Spruit, Daisy Janssen

Co-designing chronic lung disease education resources with Aboriginal Health Workers (AHWs) and exercise physiologists (EPs)
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 McKeeough, Boe Rambaldini, Vanessa Lee, Debbie Mccowen, Jamie Newman, Scott Monaghan, Hayley Longbottom, Sandra J Eades

Is longer really better? Results of a real-life study comparing once- versus twice-weekly home-based pulmonary rehabilitation session in people with COPD.
Sarah Gephine (Perenchies, France), Olivier Le Rouzic, Cecile Chenivess, Jean-Marie Grosbois

Development of a questionnaire to capture perspectives of COPD patients undergoing pulmonary rehabilitation (PR): An ongoing process.
Adis Halilovic (Hartford, United States), Bruce Bernstein, Rebecca Crowell, Mary Gawlicki, Jane Reardon, Kendra Williams, Richard Zuwallack

Association of physical activity and CAT score in a longitudinal COPD cohort
Maximilian Boesch (St.Gallen, Switzerland), Frank Rassouli, Florent Baty, Martin Brutsche

Physical performance of non-small cell lung cancer patients 3 months post treatment initiation compared to healthy peers
Eva Arents (Knokke, Belgium), Kirsten Quadflieg, Sarah Haesevoets, Fien Hermans, Maarten Criel, Marc Daenen, Eric Derom, David Rutens, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Michiel Thomeer, Chris Burtin, Heleen Demeyer

Pulmonary rehabilitation survey in Japan in 2022; comparison with survey in 2014
Hideki Katsura (Tokyo, Japan), So Imamura
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 Malinovschi (Uppsala, Sweden)

**Particles in exhaled air (PExA) - the protein composition in children**
Kristiina Malmström (Helsinki, Finland), Marjut Lehtinen, Ulrich Bergmann, Seppo Sarna, Venla Aaltonen, Erik Qvist, Maria Jussela

**Burden of disease in asthma, stratified by eosinophils levels: a UK biobank study**
Catia C Proenca (Basel, Switzerland), Aurelie Chekroun Martinot, Oscar Dumoulin, Mathieu Rose

**Exhaled volatiles to rule out asthma in symptomatic, untreated adults**
Ran Wang (Manchester (Greater Manchester), United Kingdom), Waqar Ahmed, Emma Barrett, Laura Healy, Sarah Drake, Clare Murray, Angela Simpson, Stephen Fowler

**Circulating cell-free miRNA as biomarkers of asthma severity**
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

**The role of alarmins in mixed neutrophilic/eosinophilic asthma**
Elisa Arrigo (Orbassano, Italy), Vitina Carriero, Francesca Bertolini, Giuseppe Guida, Stefano Levra, Gino Villetti, Daniela Miglietta, Fabio L. M. Ricciardolo

**Characteristics of Aspergillus sensitized severe asthma patients in a single-center SHARP cohort**
Katarina Pelicon Slabanja (Šempas, Slovenia), Matevž Harlander, Saša Rink, Simone Hashimoto, Jacob K. Sont, Elisabeth H. Bel, Sabina Skragat

**Methacholine challenge test versus nitrogen washout in patients with suspicion of asthma and normal spirometry**
Aline Stalder Siebeneichinger (Basel, Switzerland), Desiree Schumann, Meropi Karakioulaki, Nora Braschler, Andrei Darie, Michael Tamm, Daiana Stolt

**Inflammatory phenotype categorized by proximal and distal airway in patients with stable asthma**
Kensuke Fukumitsu (Nagoya, Japan), Yoshihiro Kanemitsu, Keima Ito, Hirono Nishiyama, Tomoko Tajiri, Yuta Mori, Satoshi Fukuda, Takehiro Uemura, Hirotsugu Ohkubo, Ken Maeno, Yuta Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi

**Association between neutrophil-to-lymphocyte ratio and severity of asthma exacerbation**
Yossr Aloulou (Manouba, Tunisia), Houda Snene, Hana Bibech, Rym Cheour, Sameh Belhadj, Jalloul Daghfous, Nedia Mehiri, Nozha Ben Salah, Bechir Louzir

**Correlation between FeNO and level of adherence to inhaled corticosteroids in pediatric asthma patients in a developing country**
Pedro David Vargas Duque (Bogota, Colombia), Daniela Cleves, Ranniery Acuña Cordero, Paula Aguilera Otalvaro, Bethy Camargo, Ricardo Aristizabal Duque, Carlos Rodríguez Martínez

**Treatable traits and their impact on asthma outcomes in a multi-racial difficult asthma cohort**
Kundan Reddy Saripalli (Singapore, Singapore), Nicole Sieow, Wilson Chan, Xue Ning Choo, Anthony Yee, Tunn Ren Tay

**Are lipid mediators correlated to asthma features?**
Mereim Mjidd (Tunis, Tunisia), Bochra Jamoussi, Abir Hedhli, Khadija Euchi, Sameh Hadj Taieb, Yacine Ouahchi, Sana Cheikh Rouhou, Sonia Toujani, Moncef Fekih, Besma Dhahri

**Diagnostic values of FeNO, allergosorbent test and serum immunoglobulin E level in mild asthma patients with normal spirometry**
Dae Sung Hyun (Daegu, Republic of Korea), Kyung Chan Kim, Chi Young Jung, Keum Ju Choi

**Clinical characteristics, biomarkers, and lung function of adolescent vs adult asthma patients**
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. Éudicone, Hitesh N. Gandhi, Karin Coyne, Bradely E. Chipp

**Acoustic biomarkers in asthma monitoring**
Karolina Wieczorek (London, United Kingdom), Zofia Przyspiaski, Diana Velazquez-Pimentel
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

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 Diez, Luis Puente Maestu

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 Sansche, Virginie Paulus, Renaud Louis

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

Poster session: Smoking cessation

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

An example of comprehensive approach to tobacco cessation: Collaboration with Rheumatology Clinic
Dilek Karadoğan (Rize, Turkey), Osman Cüre, Tahsin Gökhan Telatar, Kadir Ilkilaç

Effectiveness of smoking cessation program in hospitalized patients
Dilek Karadoğan (Rize, Turkey), Esin Bilgin Konyahatipoğlu, Tahsin Gökhan Telatar, Ünal Şahin

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

E-cigarettes dependence comparing to traditional cigarettes: a pilot Tunisian study
Houda Rouis (Ariana, Tunisia), Nour Mahmoud, Chirine Moussa, Abdelnader Mahdi, Maalej Sonia

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

Lung cancer as a comorbidity in patients with Combined Pulmonary Fibrosis and Emphysema Syndrome
Jolanda Nikolla (Tirana, Albania), Daniela Xhemalaj

Impact of COVID-19 pandemic on change in tobacco use behavior
Makiko Kanai (Kyoto, Japan), Osamu Kanai, Takahiro Tabuchi, Tadashi Mio

Prevalence of smoking in adolescents.
Khurshidbek Tashmetov (Tashkent, Uzbekistan), Naima Ubaydullaeva, Gulchekhra Tashmetova

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

Impacts of the COVID-19 Pandemic on Smoking Cessation Success
Muzaffer Onur Turan (Izmir, Turkey), Pakize Ayşe Turan

Effect of five years heated tobacco products use on health-Comparison with smoking cessation
Shin-ichi Hagiwara (Tochigi, Japan), Hiroo Wada

Smoking Cessation in patients with severe mental illness
Adamadia Liapikou (Athens, Greece), Vasiliki Ntoumou
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

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

Changes in smoking behavior among healthcare professionals after COVID-19 pandemic
Yossr Aloulou (Manouba, Tunisia), Hana Bilbech, Soumaya Debbiche, Houda Snene, Sameh Belhaj, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Smoking among Tunisian medical professionals suffering from burnout syndrome during the COVID-19 pandemic.
Dorra Gharbi (Sfax, Tunisia), Rahma Gargouri, Nour Gargouri, Ahmed Dhia Elleuch, Sameh Msaad, Nedia Moussa, Samy Kammoun

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

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

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

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, Shyam Chand Chaudhary

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, Shoab Aftzal

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

Changes in COPD treatment in Brazil: Findings from the National Health Surveys
Gabriela Marques (Pelotas, Brazil), Andre F.S Amaral, Fernando C. Wehrmeister

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 Camponanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pacatipunan, Roland Panaligan, Tim Trinidad

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 Stehr Jensen

Characteristics of COPD patients on maintenance inhaled therapy in Hungary
Márta Kamocsai (Győr, Hungary), Balázs Sánta, Margit Biró, Krisztina Vincze, Zsófia Lázár

COPD-related mortality through different waves of the COVID-19 pandemic
Gabriella Guarnieri (Padova (PD), Italy), Claudio Barbieri Amidei, Veronica Casotto, Alessia Achille, Leonardo Bertagna De Marchi, Sara Lococo, Federico Lionello, Andrea Vianello, Ugo Fedeli

Impact of stigma and inhaler counseling among geriatric asthma/COPD patients: a pilot study
Saqib Ahmed-Chowdhury (Chittagong, Bangladesh)
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, Kirthi Gunasekera, Mahesh Padukudru Anand, Talant Sooronbayev, Peter Burney, Vanessa Garcia-Larsen

Risk of mortality and cardiovascular events in patients with chronic obstructive pulmonary disease treated with azithromycin, roxithromycin, clarithromycin and amoxicillin
Imane Alispahic (Rødovre, Denmark), Josefín Eklof, Alexander Svorre Jordan, Pradeesh Sivapalan, Zitta Barrella Harboe, Jens-Ulrik Stæhr Jensen

Real-world study of vaccine effectiveness decline against SARS-Cov-2 Delta variant in COPD patients
Lorinc Polivka (Úröm, Hungary), István Valyi-Nagy, Zoltán Szekanecz, Krisztina Bogos, Hajnalka Vago, Anita Kamondi, Ferenc Fekete, Janos Szlavík, Gyorgy Surjan, Orsolya Surjan, Peter Nagy, Zsuzsa Schaff, Cecilia Muller, Zoltán Kiss, Miklos Kasler, Veronika Muller

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

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

Kahina Lanani (Tizi-Ouzou, Algeria), Imane Smaoun, Belaid Bouazza

Risk of chronic lower respiratory disease prior to development of inflammatory bowel disease: A population-based cohort study
Ulla Møller Weinreich (Ålborg, Denmark), Henrik Albrek Jacobsen, Anastasia Karachalia Sandri, Tine Tine Jess, Lone Larsen

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 Malinovschi

The economic and health burden of COPD in Western Europe: forecasting through 2050
Elroy Boers (Calgary, Canada), Angier Allen, Meredith Barrett, Adam Benjafied, Carlos Nunez, Jadwiga Wedzicha, Atul Malhotra

The economic and health burden of COPD in the Middle East: forecasting through 2050
Elroy Boers (Calgary, Canada), Angier Allen, Meredith Barrett, Adam Benjafied, Carlos Nunez, Atul Malhotra, Jadwiga Wedzicha

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

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

Are physical activity levels different between non-frail and pre-frail patients with COPD?
Sara Pimenta (Meirinhas, Portugal), Sofia Flora, Ana Alves, Nadia Hipólito, Ana Oliveira, Nuno Morais, Cândida G. Silva, Alda Marques, Dina Brooks, Chris Burtin, Filipa Januário, Fátima Rodrigues, Vitória Martins, Lilia Andrade, Joana Cruz

Reproducibility of the six-minute walk test on a 20-meter course in patients with COPD
Jeanet Delbressine (Horn, Netherlands), Alex Van 'T Hul, Dennis Jensen, Pei Zhi Li, Jean Bourbeau, Wan C. Tan, Martijn Spruit, Anouk Vaes

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
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**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)

**Ocular tuberculosis (OTB): typical and atypical phenotypes in a UK setting**
Claudia Liang (London, United Kingdom), Osman Hatem, Kavina Manalan, Ilaria Testi, Sethi Charanjit, Bhavini Dixit, Laura Martini, Meg Coleman, Carlos Pavesio, Harry Petrushkin, Rashmi Akshikar, Onn Min Kon

**Clinical and radiological predictors of tuberculous meningitis**
Rebekah Young (London, United Kingdom), Erik Skyllberg, Akhilesh Sharma, Veronica White, Simon Tiberi, Susan Dart, Heinke Kunst

**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

**Quantifying Myeloid-derived suppressor cells in pleural effusion can distinguish Tuberculosis from Pneumonia**
Eun Sun Kim (Seoul, Republic of Korea), Je-In Youn

**Diagnostic accuracy of adenosine deaminase in GeneXpert positive tuberculosis pleural effusion.**
Zulfqar Ali Detho (Karachi, Pakistan), Faisal Faiyaz Zuberi

**Interleukin 32 as a Potential Marker for Diagnosis of Tuberculosis Pleural Effusion**
Juan Du (Beijing, China)

**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

**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, Luis Ferreira

**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, Solikich Matsumoto, Konosuke Morimoto

**CyTOF analysis for differential immune cellular profiling between latent tuberculosis infection and active tuberculosis**
Jaehee Lee (Daegu, Republic of Korea), Ji Eun Park

**Host factors associated with false negative results in an interferon-γ release assay in adults with active tuberculosis: a single-center retrospective study**
quanxian Liu (Chengdu, China), Jian-Qing He

**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

**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

**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 Diaz Fernández, Zoran Stojanovic, Raquel Villar-Hernández, Marco Fernández, Maria Luiza De Souza-Galvão, Jorge Abad, Maria Angeles Jiménez-Fuentes, Guillem Safont, Nadia Tytarenko, Mariia Finohenova, Cristina Prat, Jose Dominguez

**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

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

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

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 Repossi, Marco Mantero, Pierachille Santus, Francesco Blasi, Luigi Codecasa

Premiminary 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-Soyoza, Natalie Lorent, Michael R Loebinger, Felix C Ringshausen, Hannah M Mitchison, James D Chalmers

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

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

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

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 Aliberti, Pierre-Regis Burgel, Megan L Critchton, Pieter C Goemmine, Michał Shteinberg, Francesco Blasi, Michael R Loebinger, Charles S Haworth, Daan Caudri, James D Chalmers

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

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

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

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, María Pérez-Periò, Esther Barreiro

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

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, Sooim Sin
Assessment of malnutrition with L1- skeletal muscle mass in non-cystic fibrosis bronchiectasis patients and the effects on exacerbation
Dilara Ömer Topçu (Bursa, Turkey), Ashlı Görek Dilektaşlı, Esra Kunt Uzaslan, Nevzat Uslu, Mehmet Karadağ

Assessment of the Non-Cystic Fibrosis Bronchiectasis Severity: the Bronchiectasis Severity Index
Houda Rouis (Ariana, Tunisia), Safa belkhir, Chirine Moussa, Mahdi Abbenddahder, Faten Mhiiri, Amel Khattab, Ibthiel Khouaja, Ines Zendah, Sonia Maalej

Nutritional status in non-cystic fibrosis bronchiectasis
Dilara Ömer Topçu (Bursa, Turkey), Ashlı Görek Dilektaşlı, Esra Kunt Uzaslan, Mehmet Karadağ

Association between the lung microbiome and severity scores in bronchiectasis
Leticia Bueno Freire (Barcelona, Spain), Rubén Lópex-Aladid, Patricia Oscanoa, Victoria Alcaraz-Serrano, Nil Vázquez, Andrea Palomeque, Roberto Cabrera, Rosanel Amaro, Laiña Fernández-Barat*, Antoni Torres*

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

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 Meerb, Eleni-Rosalina Andrinopoulou, Menno M Van Der Eerden, Pierluigi C, Megan L Crichton, Stefano Aliberti, Pierre-Regis Burgel, Pieter C Goeiimme, Charles S Haworth, Michael R Loebinger, Harm Awi Tiddens, James D Chalmers

Variation in clinical characteristics of bronchiectasis according to lung function: a observational study from a lower middle income country
Muhammad Irfan (Karachi (Sindh), Pakistan), Amna Irfan Ansari, Muhammad Tayyab Ihsan, Shayan Shahid, Akbar Shoukak Ali

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

Sarcopenia incidence and implications in bronchiectasis
Umberto Semenzato (PADOVA, Italy), Mariaenrica Tine, Chiara Contin, Andrea Rastelli, Virginia Santello, Rosella Valvason, Marta Zuffellato, Giulia Fichera, Alessandro Miceli, Chiara Girado, Andrea Sattin, Anna Maria Cattelan, Marina Saetta

**Poster session: Basic science of respiratory infection**

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

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

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

**Chairs:** Anne M. van der Does (Leiden, Netherlands), Merete Bridge Long (Dundee, United Kingdom)

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

Antimicrobial mitochondrial reactive oxygen species induction by lung epithelial metabolic reprogramming
Scott Evans (Houston, United States), Yongxing Wang, Vikram Kulkarni, Jerezel Pantaleón García, David Goldblatt, Jichao Chen, Philip Lorenzo, Hao Wang, Lee-Jun Wong, Michael Tuvim

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

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

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 Pembridge, Lilia Delgado, Rebecca Hull, James D. Chalmers
Deciphering the role of pulmonary α-(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, Leilah Bechtella, Anne Voß, Sandra Kunder, Kevin Pagen, Achim D. Gruber, Sarah Hedtrich, Matthias Oechs, Martin Witzenrath, Geraldine Nouailles

In vitro identification of essential genes of carbapenems resistant OprD mutant Pseudomonas aeruginosa
Cléophée VAN MAELE (Reims, France), Ségalène Caboche, Thomas Blanchot, Audrey Brisebarre, Christophe Audebert, Anaëlle Muggeo, Thomas Guillard

Immunoinformatics investigation of B- and T- cell epitopes in the VP2 protein of the BOCA respiratory virus
Erasma Rouka (Larissa, Greece), Kerasia Goupou, Sotiris Zarogiannis

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, Fenming Ding

Whole transcriptome profile underlies the COVID-19 bimodal phenotypes
Sabrina Setembre Batah (Ribeirao Preto, Brazil), Heloisa Zimermam, Maria Julía Marco, João Paulo Almeida, Danilo Wada, Amanda Schneppe, Robson Carvalho, Alexandre Fabro

In silico investigation of B- and T-cell epitopes in the M2 protein of the H5N6 influenza virus
Erasma Rouka (Larissa, Greece), Sotiris Kompouris, Sotiris Zarogiannis

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. Perez, Nick Petford, Jonathan Grigg

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 Bull, Lilia Delgado, Amy Gilmour, Chloe Hughes, Hollian Richardson, James D Chalmers

The plasmidome in bronchiectasis

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 Montalban, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, Jose Luis Subiza

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 Birring, Richard Feltbower, Christopher O'Callaghan, Daniel Peckham

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, Liujuan Lin

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

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-Warnish, Carmen Felgueroso, Jesus Pueyo, Marimar Ocon, Juan Pablo De Torres, Gorka Bastarrika, Luis Seijo

Prevalence of recent thoracic CT imaging in a population undergoing lung cancer screening
Tanya Patrick (London, United Kingdom), Sindhu Bharrati Naidu, Amyn Bhamani, Paul Robinson, Lauren Molyneux, Thea Buchan, Jeannie Eng, Fanta Bojang, Shivani Patel, Ricky Thakrar, Neal Navani, Arjun Nair, Sam Janes
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

Smoking cessation integrated with a lung cancer screening program: most effective method?
Anna Núñez (Barcelona, Spain), Sonia Baæa, Ester Cervera, Laura Rodriguez, Adela Gonzalez, Ignasi Garcia Olivé, Roxana Chirinos, Felipe Andreo, Antoni Rosell

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

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

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

Integrated Lung Cancer Screening program employing a mobile unit in Brazil
Letícia Ferro Leal (Barretos, Brazil), Rodrigo Chiarantano, Fabiana Vazquez, Ludmila Barbosa Pereira Dos Santos, José Elias Miziara, Edmundo Mauad, Maurício Souto Ferraz, Rui Manuel Reis

Have lung cancer patients been missed from the cancer screening programme?
Kiran Nandakumar (ROTHERHAM, United Kingdom), Abdul Nasimudeen, Jason Page, Sue Matthews, Moe Kyi

Eligibility for lung cancer screening in Greece: a retrospective study
Andriani Charpidou (Athens, Greece), Emmanouil Panagiotou, Mirtsni Livanou, Anastasia Karachaliou, Ioannis Gkiozos, Eleni Kokototou, Maria Mani, Lamprini Stournara, Sofia Tsagouli, Ioannis Vathiotsis

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 Steinfort, Henry Marshall, Louis Irving, Jiashi Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette Mcewilliams, Emily Stone, Renee Manser

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 Steinfort, Henry Marshall, Louis Irving, Jiashi Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette Mcewilliams, Emily Stone, Renee Manser

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

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

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 Belhajyoussef, Jihene Ayachi, Asma Gaddour

Route to Diagnosis in Danish Lung Cancer Patients
Anja Gouliaev (Viby J, Denmark), Niels Lyhne Christensen, Torben Riis Rasmussen

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

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

Association between quality of life questionnaire at diagnosis and survival in patients with lung cancer
Sukjin Bae (Seoul, Republic of Korea), Chang Dong Yeo
**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)

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**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, Eloisa Silva, Ana Barroso

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**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, Kyungjiong Lee, Jonathan Goldin, Jin Woo Song

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**PA1131**

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

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**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 Ittrich, Klaus B Rohr, Martin Kolb

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**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

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**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

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**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

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**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

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**PA1137**

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

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**PA1138**

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

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**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

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**PA1140**

Osteopontin as a biomarker in interstitial lung diseases
Enrique Iturbe Fernández (Santander (Cantabria), Spain), Verónica Pulito Cueto, Victor 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 Ángel González-Gay Mantecón

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**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, Jiaxin Wang, Chenwei You, Haisheng Hu, Baojun Guo, Huimin Huang, Baoqing Sun

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**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
Lactate dehydrogenase predicts disease progression in patients with IPF
Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lene Collatz, Emilia Kassandra Achilles Åttingsberg, Saher Burhan Shaker

Circulating prostasin 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 Schлага, Thomas B Leonard

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

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 Schлага, Martina Gahlemann, David Warburton

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 Schлага, Christian Hesslinger, Richard Vinisko, Thomas B Leonard, Jamie L Todd, Megan L Neely, Ramona Schmid

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

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

Hypersensitivity Pneumonitis associated to foam pillows and mattresses - mold analysis
Onofre Moran Mendoza (Kingston (ON), Canada), Gurmohan Dhillon, Alexander Boag

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

Capealozzi’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 Mарco, Mateus Magalhães Lage Moraes, Wagner Moneda Telini, Adriana Paes Leme, Romenia Ramos Domingues, Robson Francisco Carvalho, Amanda Piveta Schnepner, Andrea Antunes Cetlin, Danilo Tadao Wada, Marcel Koenigkam Santos, Tales Rubens Nadai, José Antônio Baddini-Martínez, Vera Luíza Capealozzi

Pathology and radiology of interstitial lung disease in patients with telomere-related genes mutations
Alice Guyard (Paris, France), Augustin Gaudemer, Caroline Kannengiesser, Ibrahima Ba, Pierre Mordant, Bruno Crestani, Hervé Mal, Raphaël Borie, Pierre Le Guen, Marie-Pierre Debray, Aurélie Cazes

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 Júlia Faci Do Marco, Heloisa Acurcio Zimermam, Danilo Tadao Wada, Andrea De Cássia Verner Antunes Cetlin, Marcel Koenigkam Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro

Serum metalloproteinase 7 as a biomarker of progressive pulmonary fibrosis
Marcia Aratjjo (Porto (Porto), Portugal), Marilisa Beltrão, Oksana Sokhatska, Natalia Melo, Patricia Caetano Mota, Helder Novais Bastos, André Terras, Luis Delgado, António Morais

The neutrophil to lymphocyte ratio in broncho-alveolar lavage in hypersensitivity pneumonitis: preliminary results
Marius-Alexandru Cotet (Bucuresti, Romania), Andreea Maftei (Mutu), Ionela Belaconi, Ștefan Dumitache-Rujinski, Claudia Lucia Toma, Marina Ruxandra Oțelea
Peripheral immune cell profiling reveals distinct immune hallmarks in progressive pulmonary fibrosis
Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recaens, Tamara Cruz, Nuria Albacar, Gemma Lopez Saiz, Xavier Alinsa, Mauricio Rojas, Alvar Agusti, Rosa Famer, Jacobo Sellares

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

The remodeling of hemomicrocirculatory bed of the lungs in induced systemic sclerosis
Bohdana Doskaluk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn

Evaluation of pro-inflammatory proteins and joint disease activity in individuals with interstitial lung disease associated with rheumatoid arthritis.

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, Ihigo Ojianguren Arranz, Xavier Muñoz Gall, Cristina Berastegui García, Ana Villar Gomez, Jaume Ferrer Sancho

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

Smoking and hypersensitivity pneumonitis: a single Institution retrospective analysis
Francesco Bertuccio (Pavia, Italy), Nicola Baiio, Vittorio Chino, Valentina Ferroni, Simone Montini, Valerio Partenope, Lucrezia Pisanu, Vincenzo Sanci, Alessandro Cescina, Valentina Conio, Angelo Guido Corsico, Giulia Maria Stella

Monocyte/macrophage axis as potential drivers of Progressive Fibrosing Hypersensitivity Pneumonitis
Helder Novais Bastos (Lousada, Portugal), Ana Pinto, Filipa Aguier, Catarina Cardoso, David Coelho, Vanessa Santos, André Teras Alexandre, Ana Luisa Fernandes, Patrícia Mota, Nêms Neves, Susana Guimarães, Conceição Souto Moura, José Miguel Jesus Pereira, André Carvalho, Luis Delgado, Oksana Medina, Marília Beltrão, António Morais, Margarida Saraiva, Rita Santos

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

Anti-Ro-52 antibodies in interstitial lung disease associated with autoimmune disorders
Juan Ignacio Enghelmayer (Ciudad Autónoma Buenos Aires, Argentina), Anabella Rodriguez, Tamara Arias, Maria José Lopez Meiller, Marina García Carrasco, Maria Pino, Cecilia Pisoni, Ana Maria Putruele, Gustavo Medina

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 Mikłowska-Dymanska, Adam Jerzy Bialas, Wojciech Jerzy Piotrowski

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

Prognostic value of autoantibodies in bronchoalveolar lavage in ILD patients
Karina Portillo Carroz (Badalona (Barcelona), Spain), Carmen Centeno-Clemente, Laura Rodriguez-Pons, Paloma Millan-Bill, Isabel Alfaya, Aina Teniente-Serra, Bibiana Quirant, Amalia Moreno, Pere Serra-Mitjà, Marian Garcia-Nuñez, Eva Martinez-Cáceres, Antoni Rosell Gratacos, Iñaki Salvador-Corres

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
Characterisation of cardiopulmonary exercise tolerance in patients with COVID-19 sequelae
Achim Grünewald (Darmstadt, Germany), Tara Azem, Carla Bellinghausen, Cornelius Lask, Christian Hügel, Alexander Seeger, Yasscha Khodamoradi, Eva Herrmann, Maria Vehreschild, Gernot Rohde

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, Ligia Dos Santos Roceto Ratti, Lais Bacchini 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

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 Zölllei, Péter Hankovszky, Anita Korsós, Zoltán Varga, Gábor Baró, Zsófia Csorba, László Rudas, Ferenc Peták, Barna Babik

Association of Composite Physiologic Index with dyspnea, disability and submaximal exercise tolerance in COVID-19 survivors
Chaima BRIKI (ariana, Tunisia), Sirine Jamli, Khouloud Kchaou, Balsam Barkous, Saloua Ben Khamsa Jameleddine

Correlation between Distance-Saturation Product and Composite Physiologic Index in COVID-19 survivors
Chaima BRIKI (ariana, Tunisia), Sirine Jamli, Khouloud Kchaou, Soumaya Khalidi, Balsam Barkous, Saloua Ben Khamsa Jameleddine

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

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, Bita Hajian, Willfried De Backer

Exercise capacity in a cohort of patients with post-Covid-19 syndrome
Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Päivi Piirilä

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

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 Kaith, 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

High fat mass is associated with non-recovery among females following COVID-19 hospitalisation

Dose post -exercise heart rate recovery time predict subclinical heart damage in non-severe covid survivors? A lesson from cardiopulmonary exercise test
Seyyedeh Zahra Fotook Kiae (Tehran, Islamic Republic of Iran), Hossein Kazemizadeh, Atefeh Roumi, Omalbanin Paknejad, Mehrnaz Asadi Gharabaghi

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, Cajuao Thea Pamela, Haya Larry, Dulay Tyrone, Pagalanan Jason

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

Long COVID symptoms in intensive care unit survivors, a prospective study
Amri Kacem (Sousse, Tunisia), Yosri Ben Ali, Safa Ben Mansour, Khalil Attia, Dhouha Ben Braiek, Hend Zorgati, Sourour Bel Haq Youssef, Rahma Ben Jazia, Anis Maatallah, Ahmed Jamel, Houda Belkhiria, Jihene Ayachi
Long term changes in pulmonary function among ICU COVID19 survivors
Amani Kacem (Sousse, Tunisia), Yosri Ben Ali, Safa Ben Mansour, Rihab Bouhtane, Dhouha Ben Braiek, Hend Zorgati, Sourour Bel Haj Youssef, Rahma Ben Jazia, Anis Maatallah, Ahmed Jamel, Houda Belkhiria, Jihene Ayachi

Exercise Training Improves Exercise Capacity and Quality of Life in Long HAul COVID Patients-Preliminary Results
William Stringer (Long Beach, United States), Asghar Abbasi, Micheline Iacovino, Jaqueline Tosolini, Chiara Gattoni, Christopher Hwe, Mary Burns, Charles Lanks, Carrie Ferguson, Harry Rossiter, Richard Casaburi

Exercise tolerance in patients with long COVID-19 syndrome: a combined cardiopulmonary exercise testing and echocardiographic study
Angelos Vontetsianos (ATHENS, Greece), Nikolaos Chyntkiamis, Maria Ioanna Gounaridi, Christina Anagnostopoulou, Evaggelia Koukaki, Agamemmon Bakakos, Evangelos Oikonomou, Emmanouil Vavouranakis, Georgios Kaltsakas, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

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

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)

Diagnosing pulmonary arterial hypertension in the Real World
Rogier Klok (Twello, Netherlands), R James White, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch

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

As time goes by... 2022 versus 2011 ERS-CRC PHAROS survey on managing pulmonary arterial hypertension (PAH) in European expert centres
Adam Torbicki (Otwoc, Poland), Luke S Howard, Gergely Meszaros, Joanna Pepke-Zaba, Abilio Reis, Olivier Sitbon, Marion Delcroix On Behalf Of Pharos Investigators

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

Treprostinil transition from subcutaneous to intravenous in pediatric patients with Pulmonary Hypertension undergoing a risky procedure.
Ana Diez Izquierdo (Barcelona, Spain), Gina Bustamante, Alba Torrent, Maria Morillo, Ignacio Iglesias, Sandra Rovira,Montserrat Pujol, Antonio Moreno

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

Macitentan tadalafil fixed dose combination (FDC) in patients with pulmonary arterial hypertension (PAH): A subgroup analysis from A DUE
Pavel Jansa (Jinny, Czech Republic), Kelly Chen, Ekkehard Grünig, Jakob Hauser, Matthieu Pannaux, Hany Rofael, Fenling Fan

A real-world 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. Pröienca, Miriam Fernández Delgado, Gabriela Bacchini Jeanneret

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

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

Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Christian Caillard, Robin Thévenin, Clemence Roussel, David Debeaumont, Christian Caillard, 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

Serial metabolic lung biopsies identify candidate metabolites of ARDS pathogenesis

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

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

Time to disrupt VILI with mixed high-frequency oscillatory and negative-pressure ventilation?

Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black

Modeling lung ventilation in acute exacerbation of interstitial lung diseases: a bench study

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 unsuccesfull NIV treatment, to avoid endotracheal intubation: a rational of use

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

Adriana Martin Pascual (Tiana, Spain), Marina Galdeano Lozano, Sarah Beatrice Heili-Frades Zimmermann, Toni Marin Muhiz, 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.

Jens Spiesshofer (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

Je Hyeong Kim (Ansan, Republic of Korea), Beong Ki Kim, Suia 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

Marelyn Jao (Quezon City, Philippines), Windfield Tan

Late Breaking Abstract - Contemporary risk factors for severe COVID-19


Prognostic value of eosinophil count on mortality of ECMO treated COVID-19 patients

Ilidkő 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

Razan Ghareeb (London, United Kingdom), Sobia Chaudhary, Sundeep Kaul

Late Breaking Abstract - Aminophylline in COPD- Utility and Treatment Effects: ACUTE

Raja Dhar (Kolkata (West Bengal), India), Amrita Bhattacharyya, Shyam Krishnan, Aditya Satpati, Beauty Biswas, Shubham Sharma
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 Monsurro, Vincenzo De Simone, Giuseppe Fiorentino, Mario Guarino

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

PS-4 in poster area  Session 143  12:30 - 14:00

Disease(s) : Intestinal 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 Beltramio (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, Shadrsha 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 (Malmö, 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 Constantino, Lambert Montava Garriga, Valentina Quaranotti, Hui Sun Leong, Chang Kim, Elissavet Kentepezidou, 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 Onur 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 Kondo, 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 METABOLIC ANALYSIS APPLIED TO SERUM SAMPLES BEFORE CLINICAL DIAGNOSIS IN HIGH-RISK PATIENTS.

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

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

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

Thymic epithelial tumours present the number of known and novel gene variants in molecular analysis using targeted next-generation sequencing

Adam Szpechciński (Warszawa, Poland), Małgorzata Szolkowska, Sebastian Winiarski, Urszula Lechowicz, Piotr Wisniewski, Magdalena Knetki-Wroblewska

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

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 Warpmann Berglund

Late Breaking Abstract - Anti-fibrotic and anti-inflammatory properties of isoform-selective SIK inhibitors in vitro and in vivo

Kristin Wiyqvist (Mölndal, Sweden), Alexander Vidal, Madeleine Ingelsten, Tomas Ottosson, Eylem Gürcan, Thomas Markou, Melker Göransson

OMV promotes the secretory autophagy of IL-1βin macrophage via GBP2

Ying Meng

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

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

The ALDH3A1 gene suppresses Periostin gene expression in human airway epithelial cells exposed to cigarette smoke

Senani Rathnayake (Sydney, Australia), Nafeesa Shahdab, Chris Ward, Stephen Cummings, John S Young

Response of bronchial and alveolar epithelial cells to poly(I:C)

Guzal Karimdjanova (Tashkent, Uzbekistan), Dano Egamberdieva

Smoking effects over experimental lung cancer model

Laura Sánchez Carretero (Madrid, Spain), Sandra Pérez Rial, Adele Chloe Cardeñoso Pérez, Oderay Mabel Cedeño Díaz, Jordi Llop, Jesús Ruiz-Cabello Osuna, Luis Seijo, Germán Peces-Barba Romero

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)
Small molecule inhibition of ATM reduces LPS-induced inflammation in acute lung injury
Man Luo (Hangzhou, China), Jiao-li Wang, Limin Wang

4-Indole-2-Arylamino-pyr-imidine identifies lysosomal cathepsin L activation critical for acute lung injury
Shi-yi Yang (Hangzhou, China), Kai-ju Chen, Min Zhang, Zhang-chun Jin, Zhoyuan Li, Zheng-tong Mao, Huahao Shen, Xing-xian Zhang, Gensheng Zhang, Zhihua Chen

Acute effects of e-cigarettes on lung-related extracellular vesicles
Mi-kael Kabele (Tavelsjö, Sweden), Jen-ni Bosson, Lukasz Antoniewicz, Magnus Lundbäck, Fariborz Mobarrez

Difference-nt pro-tein profiles of lung injury in rat models upon pul-monary exposure to air pollution
Chia-Li Han (Taipei, Tai-wan), Yu-Teng Jheng, Deni-se Utami Putri, Manh Quan Nguyen, Hsiao-Chi Chuang, Kang-Yun Lee

Late Breaking Abstract - Combined treatment of Formo-terol and Tani-milast improves lung organoid growth
Rocio Fuentes-Mateos (Groningen, Netherlands), Ka Yu Wang, Loes Kistemaker, Barbro Melgert, Fabrizio Facchinetti, Reinoud Gosens

Virlaza® Efficiently Inhibited LPS-induced Acute Lung Injury
Rodolfo De Paula Vieira (Anápolis, Brazil), Maya-ys Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anan-me Silva-Reis, Boris Brill, Manoel Carneiro Oliveira-Junior, Edilson De Souza Carvalho, Razi Ronen

Effect of an agro-based compound (A-B-C) on regeneration of airway epithelium in Cystic Fibrosis (CF)
Emilie LUCZKA (Reims, France), Damien Adam, Myriam Polette, Michel Abély, Christelle Coraux

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

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

A non-Canonical cGAS-CREB Pathway in Airway Epithelium inhibits LPS-induced Acute Lung Injury
Zhan-chu Jiu (, China), Zhe-hua Shao, Wen-qi Diao, An-yi Guo, Shi-yi Yang, Yin-fang Han, Yin-fang Wu, Yun Zhao, Yan-ping Wu, Jia-xin Shen, Song-min Yang, Chao Zhang, Wen Li, Huhao Shen, Zhihua Chen, Fugui Yan

Alveolar epithelial cells facilitate lung inflammation and fibrosis in response to cytokines
Robert M. Jackson (Miami, United States), Teng-jiao Cui, Medhi Wangpaichitr, Andrew V. Schally

Implications of reduced E-cadherin for abnormal airway epithelial damage and repair responses in COPD
Xin-zi Zheng (Groningen, Netherlands), Irene Heijink, Martijn Nawijn

Specialized Pro-resolving Mediators and its precursors in Chronic Obstructive Pulmonary Disease
Warda Jelassi (Tunis, Tunisia), Abir Hedhli, Sameh Hadj Taieb, Khadija Euchi, Sana Cheikhrouhou, Yacine Ouahchi, Sonia Toujani, Meriem Mjdi, Besma Dhahri, Moncef Feki

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 Uldemolins, Helena Lluis, Xavier Gasull, Nuria Gavara, Raimon Sunyer, Jorge Otero, David Gozal, Ramón Farré Ventura

RNA expression in cord blood. Can obstructive sleep apnea (OSA) during pregnancy have any effect on fetal development?
Laura Cánaves (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, Antónia Barcelo Bensasar, Daniel Morell-Garcia, Javier Pierola Lopetegui, José Antonio Peña Zarza, Maria Concepción Piñas Cebrian, Susana García Fernández, Carne Ferrer Quintana, Sabina Perello Rosello, Alberto Alonso Fernández

PD-L1+ small extracellular vesicles in obstructive sleep apnea syndrome
Wojciech Trzezpiur (Angers, France), Sylvain Recoquillon, Grégoire Justeau, Jérémy 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, Valentin Cabriada, Joaquín Durán-Cantolla, Mercé 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 Azharbarzin

**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-av 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.

**PA1282**
The link between the sphingolipid rheostat and obstructive sleep apnea
Péter Horváth (Budapest, Hungary), Lilla Bűd, Dániel Hammer, Rita Varga, György Losonczy, Ádám Tárnoki, Dávid Tárnoki, Martina Mézsáros, Andras 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 Stefanch, Raafaela 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 Naourra, 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
Thinh Duy Linh Tran (Ho Chi Minh, Vietnam), Thi Hoang Trang Nguyen, Shang-Yang Lin, Wen-Te Liu, Chaur-Jong Hu
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)

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**PA1289**
A Clinical-Stage Inhaled RNAi Therapeutic For Pulmonary Inflammation Mediates Durable RAGE Silencing In Nonhuman Primates (NHP)
David Kasahara (Madison, United States), Szymon Klossowski, Ben Turner, Holly Hamilton, Taylor Reed, Tao Pei, James Hamilton, Erik Bush

**PA1290**
A Lung-Targeted RNAi Therapeutics Delivery Platform Compatible With Subcutaneous (s.c.) Administration Mediates Pulmonary RAGE Silencing In Rodents And Nonhuman Primates
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**
Heterogeneity of the lung microbiome influences response to Astegolimab, an anti ST2, in COPD
Koirobi Haldar (Leicester, United Kingdom), David F. Choy, Ahmed Yusof, Vijay Mistry, Jordan S. Mar, Dorothy Cheung, Michele A. Grimaldeston, Christopher Brightling

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**PA1292**
ALIENTO and ARNASA: Study designs of two randomised, double-blind, placebo-controlled trials of astegolimab in patients with COPD
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**
Characterization of the ADME profile of tanimilast following administration of a single inhaled dose in healthy males
Michele Bassi (Parma, Italy), Veronica Puviani, Debra Santer, Sonia Biondaro, Aida Emirova, Mirco Govoni

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**PA1294**
Effects of Telaglenastat, a glutaminase inhibitor, on airway inflammation and cellular senescence in cigarette-smoke exposed mice
Kazuhiro Ito (London, United Kingdom), Yasuo Kizawa, Yuki Nishimoto, Kenji Kimura, Shyreen Hassibi, Jonathan Baker

**PA1295**
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
Bård-Emil Gundersen (København Ø, Denmark), Pradeesh Sivapalan, Josef Alkof, Tor Birger-Sørensen, Allan Linneberg, Jens Ulrik Jensen

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**PA1296**
The bacterial lysate OM-85 amplifies efficacy of allergen immunotherapy (AIT) in allergic patients with asthma and rhinitis
Antonios Christopoulos (Patras, Greece), Maria Eipida Christopoulos, Panagiota Tsir, Vasiliki Sotiropoulou, Eva Theohari, Electa Koulessoufis, Dimitris Kominos, Georgios Tzirikos, Ioannis Christophoulou, Argyrios Tzouveleikis

**PA1297**
Effects of acid-suppressive medications in patients with chronic obstructive pulmonary disease: a multicenter study using a common data model
Yeong-jeong Hoo (Chuncheon, Republic of Korea), Jeongwon Hoo, Seung-Joon Lee, Sung Joon Lee, Seon-Sook Han, Seong-Joon Cho, Ja Young Kim

**PA1298**
The corticosteroid-sparring effect of vigorous physical activity - a secondary analysis of a randomised controlled trial
Anders Pitzner-Fabricius (Allerod, Denmark), Vibeke Backer

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**PA1300**
Anamorelin, a ghrelin receptor agonist, inhibited the allergic airway inflammation in mice
Hiroki Bando (Tokushima, Japan), Seidai Sato, Hirohisa Ogawa, Kazuya Koyama, Koji Murakami, Yuya Yamashita, Nandini-Erdene Danz, Keiko Haji, Nobuhito Naito, Hiroshi Kawano, Yasuhiro Nishioka

**PA1301**
P3K inhibition suppresses key disease features in a rat model of asthma
James Pinkerton (London, United Kingdom), James Pinkerton, Silvia Preite, Antonio Piras, Dimitrios Zervas, Thomas Markou, Mark Freeman, Tobias Hofving, Eva Lambergstrom, Emil Ivarsson, Sara Bonvini, Wayne Brailsford, Linda Yrlid, Maria Belvisi, Mark Birrell

**PA1302**
Effects of Toll-like Receptor Activation on Airway Responses and Inflammation in Guinea Pigs
Yujing Xiang (Solna, Sweden), Jieli Liu, Mu Nie, Jesper Söhlin, Mikael Adner

**PA1303**
Effects of melatonin in an Asthma-COPD overlap model
Vitorio Crema Schaffer (São Paulo, Brazil), Cristiane Ribeiro, Leandro Camargo, Silvia Fukuzaki, Francine Almeida, Renato Righetti, Iolanda Tibério, Edna Leick
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

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 Kulyuchen-Miskiv, Kostiantyn Shvets, Galyna Korzh, Iryna Makoyda, Nadiaa Korzh, Uliana Shhevchuk-Budz

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

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

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 Bukliska Ilievska (Skopje, North Macedonia), Jordan Minov, Adriana Bukliska, Marjan Baloski, Ivana Mickovskia, Bilijana Prjgova-Veljanovac, Nade Kochovskia Kamevska, 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, Chrine Moussa, Rouis Houda, Ghourabí Asma, Khattab Amel, Khouaja Ilthihiel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Maalej Sonia

**PA1315** Does corticosteroid intake increase the risk of Vitamin D deficiency in Tunisias COPD patients?
Asma Zargouni (Ariana, Tunisia), Meriem Mjid, Abir Hedhli, Khadija Euchi, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Besma Dhalhi

**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 Kahnt, 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. Jörges
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 Castanedi, Jonathan Marshall, David Price

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 Alfanò, Tommaso Bigoni

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, Priyadarshini Dasari, Nancy A Risebrough, Chris Compton

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, Raju Dhar, Sujeet Rajan, Rajesh Swarnakar, Deepak Talwar, Meena Lopez, Vaishali Naik, Sandesh Sawant, Sushmeeta Chhowala, Abhijit Vaidya, Jaideep Gogtay

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 Astugi, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saraiva, Ying Fan, Maria Jison, Ubaldo J. Martin, Ioannis Psallidas

Azithromycin maintenance therapy for prevention of Chronic Obstructive Pulmonary Disease Exacerbations
Deepansh Gupta (Rishikesh, India), Lokender Kumar, Avishek Layek

Clusters in chronic obstructive pulmonary disease based on inhaled corticosteroid treatment and pneumonia incidence – a nationwide cohort study
Allan Klitgaard (Vejle, Denmark), Rikke Ilsen, Ole Hilberg, Anders Løkke

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

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, Priyadarshini Dasari, Nancy A Risebrough, Chris Compton

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

The prevalence of emphysema in patients undergoing lung cancer screening
Marija Vukojka (Sremska Kamenica, Republic of Serbia), Dragan Dragic, Gordana Vujasinovic, Jelena Djekic Malbasa, Ilija Andrijevic, Goran Stojanovic, Ivan Kopitovic

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, Yoriiuki Murata, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga

Impact of atrial fibrillation and flutter on mortality in patients admitted with acute exacerbation of COPD
Peter Ascanius Jacobsen (Aalborg, Denmark), Stine Kjersgaard Hansen, Sofie Vejby Thorndal, Ulla Møller Weinreich
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

Coronary anatomy disease, COPD exacerbation and inflammation
Mairi MacLeod (London, United Kingdom), Aaron Braddy-Green, Ralph Lopez, Philippa Webb, Logan Sun, Paras Dalal, Kris Knott, Simon Davies, M Rubens, Edward D Nicol, Anand Devaraj, Dorian O Haskard, Gavin C Donaldson, Ramzi Y Khamis, Jadwiga A Wedzicha

Impact of COPD on sympathetic drive
Binaya Regmi (Aachen, Germany), Faniry Ratsimba, Benedikt Jörn, Mehdi Senol, Oscar Gorol, Mustafa Elfeturi, Ayham Daher, Vaughan Macousel, Michael Dreher, Jens Spieshoefr

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

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, Sandra Škrinjarjčin

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

Analysis of ECG parameters associated with worse prognosis in patients with COPD
Martina Kulirova (Hradec Kralove, Czech Republic), Miroslav Solar, Michal Kopecky, Barbora Novotna, Marek Plutinsky, Libor Fila, Petr Vanik, Pavлина Musilova, Tomas Dvorak, Petr Safranek, Michal Svoboda, Vladmir kobliček

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, Lowe Vanfleteren

OBSTRUCTIVE PULMONARY DISEASE CORONAROPATHY RISK (COPDCORD) 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 Olveira Fuster

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

The continuously evolved RE-SAMPLE cohort: predicting outcomes of COPD and comorbidities
Anke Lenferink (Oldenzaal, Netherlands), Charlotte Cecile Bucsán, M G J Brusse-Keizer

Correlation of FEV1 and Pulmonary artery hypertension among patients with COPD, presented to tertiary care hospital, Pakistan.
Saadia Ashraf (Peshawar, Pakistan), Sehrish Khan

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 Ifikhar, Imran Hussain

Which patient characteristics are associated with exercise-induced desaturation in COPD combined with hypertension?
Anastasiia Melenevych (Kharkiv, Ukraine)

The prevalence and clinical characteristics of COPD in patients with lung cancer
Ivana Canak (Sremksa Kamenica, Republic of Serbia), Jelena Mikov, Goran Stojanovic, Nevena Sezen, Ilija Andrijevic, Ivan Kopitovic, Nensi Lalic, Marija Vukoja

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
## INDUSTRY LUNCHEON SYMPOSIUM

### 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)

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<th>Title</th>
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<tr>
<td>12:45</td>
<td>How to choose and use an inhaler</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<tr>
<td>12:55</td>
<td>How to monitor and improve inhaler technique</td>
<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
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<td>13:05</td>
<td>How to assess and improve inhaler adherence</td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
<td>1363</td>
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<td>13:15</td>
<td>Q&amp;A session</td>
<td>All Speakers</td>
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### Gold  
**Session 154**  
13:45 - 15:15  

**State of the art session: Pulmonary vascular diseases**  

**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)

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

**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** The new ARDS definition
Lorraine Ware (Nashville, United States)

**14:00** The new European guideline in ARDS: nonpharmaceutical treatments
Christian Karagiannidis (Cologne, Germany)

**14:15** The new European guideline in ARDS: pharmaceutical treatments and upcoming targets
Danny Mcauley (Belfast, United Kingdom)

**14:30** Weansafe: how do we wean from mechanical ventilation?
Leo Heunks (Amsterdam, Netherlands)

**14:45** Discussion and Q&A
All Speakers
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 summarise 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)

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<td>13:45</td>
<td>Patient's perspective</td>
<td>Alistair Drummond (Hemel Hempstead, United Kingdom)</td>
<td>1396</td>
</tr>
<tr>
<td>13:50</td>
<td>Earlier diagnosis to earlier treatment for people living with chronic breathlessness</td>
<td>Rachael A. Evans (Leicester (Leicestershire), United Kingdom)</td>
<td>1397</td>
</tr>
<tr>
<td>14:05</td>
<td>Nonpharmacological management of chronic breathlessness including rehabilitation and the multidisciplinary team</td>
<td>William Man (Harefield, United Kingdom)</td>
<td>1398</td>
</tr>
<tr>
<td>14:20</td>
<td>Special considerations in complex breathlessness: breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse</td>
<td>Hege Clemm (Paradis, Norway)</td>
<td>1399</td>
</tr>
<tr>
<td>14:35</td>
<td>Integrated breathlessness support services: what are they and what should they include?</td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
<td>1400</td>
</tr>
<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>1401</td>
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</tbody>
</table>
**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-4Rα single domain antibody, LQ036, demonstrates promising clinical profile to treat asthma**

Yakun Wan (Shanghai, China), Junwei Gai, Min Zhu, Huaiyu Gu, Zhenzheng 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 Mosieiro, Ines Escribano, Nuria Toledo-Pons, Cristina Gomez, Jacinto Ramos, Luis Perez De Llano, Fco. De Borja Garcia-Cosio Piqueiras

**OA1414**  
**Non-T2 cytokines post Benralizumab associate with residual symptoms**

Manali Mukherjee (Hamilton (ON), Canada), Chynn Huang, Kayla Zhang, Xiaotian Ju, Melanie Kjarsgaard, Carmen Venegas-Garrido, Katherine Radford, Anurag Bhamla, Kiho Son, Sylvia Lauks, Nicola Calma, Sarah Svenningsen, Paul O’Byrne, Roma Sehmi, 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 Krafth, 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 Ponnamrribal, 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, Amsgam Gamil, Gillian Hunter, Sandhia Ponnamrribal, 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 Ponnamrribal, 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 Guilleminault (Toulouse Cedex, France), Francois Montastruc, Laurent L. Reber, Jean-François Magnaval, Philippe 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. Wuys (Leuven, Belgium), Athina Trachalaki (London, United Kingdom)
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

Nationwide All ILD registry with central MDD in Japan; Providing Multidisciplinary ILD diagnoses (PROMISE) study.

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 Nasmimudeen, Moe Kyi

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

Electronic nose technology differentiates interstitial lung diseases from other chronic respiratory diseases
Iris G. van der Sar (Rotterdam, Netherlands), Marlies S. Wijtenbeek, Gert-Jan Braunstahl, Jason O. Loekabino, Annemarie C. Dingemans, Johannes C. C. M. In 'T Veen, Catharina C. Moor

Development and validation of a nomogram for predicting pulmonary complications after curative resection in idiopathic pulmonary fibrosis patients with early stage lung cancer
Yunjoo Im (Seoul, Republic of Korea), Hongseok Yoo

Telemedicine in patients with Idiopathic Pulmonary Fibrosis
Matteo Davi (Ancona, Italy), Claudia Duranti, Lina Zucattosta, Federico Mei, Martina Bonifazi

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, Verónica Marcoux, Julie Morisset, Ciaran Scallan, Shane Shapera, Kelly Sun, Boyang Zheng, Christopher J. Ryerson, Alyson W. Wong

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

Buccal microbiome and survival in idiopathic pulmonary fibrosis: CleanUP-IPF
John Kim (Charlottesville, United States), Promi Das, Shwu-Fan Man, Piyush Ranjan, Yong Huang, Kevin Anstrom, David O'Dwyer, Fernando Martinez, Jack Gilbert, Imre Noth

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)

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, Sarah Ranganathan, Leonard C.Harrison, Peter Vuillermin

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
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 Szefler, Sanja Stanojevic

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 Neerincx, Susanne Jh Vijverberg, Simone Hashimoto, Mario Gorenjak, Antoaneta A. Toncheva, Susanne Harner, Susanne Brandstetter, Christine Wolff, Anna Hedman, Catarina Almqvist, Paula Corcurea-Elosegui, Javier Korta-Murua, Olaia Sardón-Prado, Maria Pino-Yanes, Uroš Potočnik, Michael Kabsch, Aletta D Kraneveld, Paul Brinkman, Anke-Hilse Maitland - Van Der Zee

Lung function fluctuation patterns may unveil distinct clinical phenotypes in asthmatic children
Sotirios Fouzas (Patras, Greece), Eirini - Sofia Frima, Nikolaos Karantaglis, Dimos Gidaris, Grigorio Chatziparasidis, Ilias Theodorakopoulos, Aris Bertzouanis, Michael Anthracopoulos, Urs Frey, Edgar Delgado - Eckert

Prematurity-associated lung disease is frequently mis-diagnosed as asthma
Tiffany Bradshaw (Perth, Australia), Rhea Urs, Elizabeth Smith, Shane Simpson

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, Szu Chu, Jakob Stokholm, Klaus Bønnelykke, Augusto Litonjua, Hans Bisgaard, Scott Weiss, Bo Chawes, Jessica Lasky-Su

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

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

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)

Integrated multi-omics unraveled a basal cell-dependent signature predictor of outcome and immunotherapy response in LUSC
Jianlong Jia (Munich, Germany), Ruowan Liu, Benteng Deng, Xuanze Guo, Lilith Trassl, Georgia Giotopoulou, Sabine Behrend, Yang Liu, Ali Yildirim, Georgios Stathopoulos, Andrea Schamberger, Isis Fernandez

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

IL-17A induces EGFR-targeted therapy resistance via enhancing EGFR activation in lung cancer
Kai Ling Lee (Taipei, Taiwan), Chi-Li Chung, Ming-Ihsien Chien

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, Josciane Mourão Dias, Iara Vidigal Santana, Vinicius Duval Silva, Sabrina Setembro Batah, Heloisa Acurcio Zimermann, Alexander Todorovic Fabro, Conceição Souto-Moura, Susana Guimaraes, Fatima Carneiro, Claudia Freitas, Helder Novais E Bastos, Luciane Sussuchi Da Silva, Rui Manuel Reis, Leticia Ferro Leal

The role of CD137-CD137L and CD200-CD200L pathways in the regulation of tumor immune microenvironment.
Iwona Kwiecien (Warszawa, Poland), Elżbieta Rutkowska, Ágata Raniszewska, Rafał Sokołowski, Karina Jahnz- Różyk, Piotr Rzepecki
Reproducibility of a 12-gene set for predicting outcome and benefit from ACT in early-stage NSCLC patients
Rui Reis (Barretos, Brazil), Alexa Polo Siqueira, Maria Fernanda Santiago Gonçalves, Isabella Lemaqui Tegami, Keila Cristina Miranda, Icaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Rachid Eduardo Nolte Da Nobrega, Vinicius Duval Da Silva, Sabrina Setembre Batah, Heloisa Acuário Zimerman, 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

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 Sible, Renaud Louis, Julien Guiot, Ingrid Struman

The predictors of lung injury during durvalumab maintenance therapy following concurrent chemoradiotherapy in unresectable locally advanced non-small cell lung carcinoma
Nobuyuki Hirama (Kanagawa, Japan), Masaki Yamanoto, Satoshi Nagaoka, Yuhihi 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)

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

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, Josiej Altenburg, Michal Shteinberg, James D Chalmers

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 Soysa, Montserrat Vendrell, Stuart J Elborn, Amelia Shoemark, Stefano Aliberti, Pieter Goeminne, James D Chalmers

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, Muchael Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Antony De Soysa, Montserrat Vendrell, Amelia Shoemark, Josiej Altenburg, Wim Boersma, Stuart Elborn, Stefano Aliberti, Pieter C Goeminne, James D Chalmers

Treatment with the dipeptidyl peptidase-1 inhibitor brensocatib increases the antimicrobial peptide secretory leukocyte peptide inhibitor (SLPI) in patients with bronchiectasis: results from the WILLOW trial
Lidia Fereca (Barcelona, Spain), Emma Johnson, Carlos Fernandez, Kevin Mange, Ariel Teper, Holly R Keir, Oriol Sibila, Amelia Shoemark, James D Chalmers

Bronchiectasis and mortality in smokers with distinct spirometric phenotypes
Alejandro A Diaz (Arlington, United States), Jose L Orejas, Rim Elalami, Wojciech R Doliver, Pietro Nardelli, Ruben San Jose Estepar, Bina Choi, Carrie Pistenmaaa, James C Ross, Diego J Maselli, Andrew Yen, Michael H Cho, Raul San Jose Estepar

qPCR and 16S rRNA marker-gene sequencing as endpoints for clinical trials of antimicrobials: iBEST study
Michael M Tunney (Belfast (Belfast), United Kingdom), Gish G Einanson, 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
Anxiety, depression and bronchiectasis outcomes: Data from the BronchUK study

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

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 Biasi

Discussion and Q&A
All Speakers

Amber 1+2  Session 168  14:30 - 16:50
Skills workshop: SW3 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  Introduction
All Speakers

14:30  Physical activity assessment and intervention
Heleen Demeyer (Leuven, Belgium)

14:30  Neuromuscular electrical stimulation: in who and how?
Lorna Latimer (Rugby (Warwickshire), United Kingdom)

14:30  How to improve balance and reduce falls in people undergoing pulmonary rehabilitation
Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom)

14:30  Implementing mindfulness interventions into pulmonary rehabilitation
Ingeborg Farver-Vestergaard (Vejle, Denmark)

Amber 3+4  Session 169  14:30 - 16:50
Skills workshop: SW18 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  Introduction
All Speakers
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 Case 1 incl. panel discussion and Q&A - Author: V. Stamatopoulou (Greece)
Silvia Ulrich (Zurich, Switzerland)

15:52 Case 2 incl. panel discussion and Q&A - Author: S. Singh (India)
David Jiménez Castro (Madrid, Spain)

16:14 Case 3 incl. panel discussion and Q&A - Author: L. Power (Ireland)
Silvia Ulrich (Zurich, Switzerland)

16:36 Case 4 incl. panel discussion and Q&A - Author: A. Moin (United States of America)
David Jiménez Castro (Madrid, Spain)

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 The principal immunology of Th17 cells in the lungs
Jay Kolls (New Orleans, United States)

15:45 Th17-associated cytokines in obstructive airway diseases
Qutayba Hamid (Montréal (QC), Canada)

16:00 The role of Th17 in sarcoidosis and interstitial lung diseases
Antje Prasse (Hannover, Germany)

16:15 Discussion and Q&A
All Speakers

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 The changing epidemiology of community-acquired pneumonia in the ageing population
Catia Cilloniz Campos (Barcelona, Spain)

15:45 The new challenges of pneumonia in immunocompromised patients
Scott Evans (Houston, United States)

16:00 How vaccines can reduce the impact of respiratory infections
Tobias Welte (Hannover, Germany)

16:15 Updating the management of pleural infections: from prognostic scores to novel fibrinolytic agents
Eihab Bedawi (Sheffield, United Kingdom)

16:30 Discussion and Q&A
All Speakers
**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, 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)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker and Location</th>
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<tr>
<td>15:30</td>
<td>Cellular changes in the ageing lung</td>
<td>Melanie Konigshoff (Pittsburgh, United States)</td>
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<td>15:45</td>
<td>Respiratory function in the ageing respiratory system</td>
<td>Georgios Kaltsakas (Athens, Greece)</td>
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<td>16:00</td>
<td>Age-related diseases and chronic respiratory diseases</td>
<td>Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)</td>
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<td>16:15</td>
<td>Frailty transitions among patients with chronic respiratory diseases</td>
<td>Lies Lahousse (Ghent, Belgium)</td>
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<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**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)

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<tr>
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<th>Session</th>
<th>Speaker and Location</th>
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<tr>
<td>15:30</td>
<td>Why fighting against air pollution and climate change is paramount for planetary health</td>
<td>Maria Neira (Geneva, Switzerland)</td>
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<tr>
<td>15:45</td>
<td>The striking scientific evidence of air pollution’s health effects in children and adults</td>
<td>Zorana Andersen (Frederiksborg, Denmark)</td>
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<tr>
<td>16:00</td>
<td>Quantifying the morbidity of polluted air</td>
<td>Francesco Forastiere (Roma (RM), Italy)</td>
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<td>16:15</td>
<td>The respiratory health benefits of improved urban exposures</td>
<td>Erik Melen (Stockholm, Sweden)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**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
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 Beghè, Klaus F. Rabe, Maxim Kotz, Alberto Papi, Chris E. Brightling, Dave Singh, Thys Van Der Molen, Saloman Siddiqui, Victor Guryev, Maarten Van Den Berge

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 Rapsomani, Hana Müllerová, Alberto Papi

Cluster analysis to identify distinct clinical asthma phenotypes within ATLANTIS
Pauline Kuks (Groningen, Netherlands), Tatiana Karp, Jorine Hartman, Monica Kraft, Saloman Siddiqui, Leonardo Fabbri, Klaus Rabe, Alberto Papi, Chris Brightling, Dave Singh, Maxim Kots, Thys Van Der Molen, Huib Kerstjens, Irene Heijink, Daan Poulwels, Dirk-Jan Slebos, Maarten Van Den Berge

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

Patient-centred composite index for assessment of response to biological therapy for adult severe asthma.
Ekaterina Khaleva (Southampton, United Kingdom), Chris Brightling, Ratko Djukanovic, Sven-Erik Dahlén, Courtney Coleman, Markaya Henderson, Graham Roberts

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

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 Fokstra-De Blok, Leonardo Fabbri, Monica Kraft, Alberto Papi, Klaus Rabe, Maarten Van Den Berge, Tessa Kole, Dave Singh, Craig Galban, Maxim Kots, Christopher Brightling, Saloman Siddiqui

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 Malinovschi

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 Bridging, 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 Padvor, Douglas Robinson, Samuntha Walker, Ashley Woodcock, Liam Heaney

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

Discussion and Q&A
All Speakers
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

The cellular immune landscape in end-stage cystic fibrosis lungs

Characterisation of the CF sputum proteome reveals that innate host defence proteins are depleted in frequent exacerbators
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
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
Nicholas Simmonds (London, United Kingdom), Susan C. Charman, Julia Willems, Debrah Santoro, Stella Fiorini, Rémi Charreter, Clara Sanchez, Claudio Procopiucci, Lutz Naehrich

Economic impact using a virtual model of care in Cystic Fibrosis
Paola Iacotucci (Napoli (NA), Italy), Vincenzo Carnovale, Andrea Gramenegna, 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)
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
Inbal Golan-Tripto (Beer sheva, Israel), Vered Wieseh, Michal Aviram, Reuven Zehava, Dario Praiss, Malena Cohen-Cymberknoh, Michal Gug, Ronen Bar-Yoseph, Galit Livnat, Aviv Goldbart, Guy Hazan, Itai Hazan

Comorbidities in adult patients with Cystic Fibrosis (CF)
Almudena Felipe Montiel (Rubí (CT), Spain), Antonio Álvarez Fernández, Letizia Traversi, David Clofent Alarcón, Karina Loor Reyes, Mario Culebras Amigo, Cristina Esquinas López, Eva Polverino

Economic impact using a virtual model of care in Cystic Fibrosis
Paola Iacotucci (Napoli (NA), Italy), Vincenzo Carnovale, Andrea Gramenegna, Chiara Premuda, Federica Piedepalumbo, Erica Nazzari, Calogero Sciarabba, Valeria Daccò, Francesco Blasi

ERAS technical standard
Nicole Beydon (Paris, France), Panayiotis Kouis, June Marthin, Philipp Latzin, Murielle Colas, Stephanie Davis, Eric Haarman, Harris Amanda, Hugui Claire, Kilbridge Emma, Kuehni Claudia, Marangu Diana, Nielsen Kim, Pendergrast Catherine, Robinson Phil, Runman 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
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 Syl, Wilfried Karmaus, Adam Collison, Joerg Mattes
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

The impact of GLI Global equations on spirometry interpretation in a diverse pediatric population
Jacob McCoy (Toronto, Canada), David Wilson, Lucy Perrem

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 Slainsby, Emma Watson, Catherine Clarke, Jonathan Syme-Grant, Jason Neil-Dwyer, Rebecca Devaney

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

Nocturnal Oximetry Reference Values in Healthy Term Infants Aged 1-6 Months
Maria Eleni Liagkaki (Athens, Greece), Anastasia Polyarchou, Angeliki Moudaki, Georgia Koltsida, Christina Kanaka-Gantenbein, Athanasios G. Kadiatis

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

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

Analysis of mandibular movements to improve ventilatory management of children
Julie Cassibba (Paris, France), Audrey Dupond-Athenor, Guillaume Aubertin, Jean-Louis Pepin, Guillaume Mortamet

OA1554

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)

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 Fonseka, Jenny Symonds, Louise Staddon, Sonia Patole, Kevin Blyth, Anna Bibby

Defining a new diagnostic biomarker panel for malignant pleural mesothelioma using a novel proteomic technique.
Elie Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, An Staes, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote

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 Puppo, Intersimone Donatella, Valentina Pinelli

Exhaled breath analysis predicts treatment response in malignant pleural mesothelioma patients.
Ellen Heirwegh (Antwerp, Belgium), Eline Schillebeeckx, Eline Janssens, Veerle Surmont, Krista Nackaerts, Elly Marcq, Jan Van Meerbeeck, Kevin Lamote

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 Maegregor, 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

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 tale 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 Stadon, 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

OA1562  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 Nourouseghi, Rachel Chambers, Joanna Porter, Gillian Tomlinson

OA1566  Epithelial metabolic stress in IPF: Identifying intervention strategies using a preclinical murine SftpC173T model of lung fibrosis
Luís Rodriguez (Philadelphia, United States), Aditi Murthy, Yaniv Tomer, Thalia Dimopoulos, Katrina Chavez, Michael Beers

OA1567  Glycolysis regulates MMP-dependent tissue remodelling during Tuberculosis infection
Ramla Cusman (London, United Kingdom), Julia Kutschenreuter, Deborah L. W. Chong, Jon S. Friedland

OA1568  Ex vivo tissue perturbations coupled to single-cell RNA-seq reveal multi-lineage cell circuit dynamics in human lung fibrogenesis

OA1569  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

OA1570  Effect of AAT augmentation therapy on bronchiolitis obliterans development in mice model
Sabina Janciauskiene Wallmark (Hannover, Germany), Tomoyuki Nakagiri

OA1571  Towards modelling Birt-Hogg-Dubé syndrome using hiPSC-derived alveolar epithelial cells
Alejandro Rodriguez Ruiz (Leiden, Netherlands), Aabilash Ravi, Dennis Ninaber, Bart Hoppe, Ruth Olmer, Ulrich Martin, Pieter Hiemstra, Anne Van Der Does

OA1572  Airway epithelial health is impaired in patients with severe asthma unable to down-titrate anti IL5 biologics
Marianne Baastrop Soendergaard (København N, Denmark), Louise Munkholm Andreasson, Ditte Kjørgaard Klein, Celeste Porsbjerg

OA1573  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
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<th>Session 185</th>
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**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)

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<th>Presentation title</th>
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<td>PA1578 Digital platforms may enhance asthma outcomes when integrated with virtual care</td>
<td>Leanne Kaye (San Diego, United States), Vy Vuong, Urvashi Patel, Douglas Mager, Meredith Barrett</td>
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<td>PA1579 Development of a registry to assess adherence and digital inhaler utilization in real-world patients with asthma (AURORA): a modified Delphi study</td>
<td>Mechiel Wiertz (Zwolle, Netherlands), Amber Eikholdt, Anneke Ten Brinke, Els Weersink, Huib Kerstjens, Irene Van Weerdt, Johannes In ’T Veen, Kornelis Patberg, Martijn Goosens, Niels Chavannes, Sandra Been-Buck, Titia Klemmeier, Job Van Boven</td>
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<td>PA1580 Digital inhaler preferences of asthma patients and healthcare providers: a discrete choice experiment</td>
<td>Amber Eikholdt (Zwolle, Netherlands), Job Van Boven, Tunn Ren Tay, Joy Lee, Mark Hew, Asia N Rashed, Christina Baggott, Sukeshe Makhecha, Louise Fleming, Richard Costello, Amy Chan</td>
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<td>PA1581 Descriptive analysis of conversational agent usage characteristics in an asthma app</td>
<td>Selahattin Çolakoğlu (Hertfordshire, United Kingdom), Anıl Başpınar, Aslı Yıldız, Mustafa Durmuş</td>
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<td>PA1582 Electronic peak flow in asthma – usefulness in pregnant and non-pregnant patients</td>
<td>Dorothy Ryan (Dublin 3, Ireland), Deirdre Long, Finbarr Harnedy, Rebecca Borton, Richard W. Costello</td>
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<td>PA1583 Accelerating asthma diagnosis and treatment optimisation through a technology enabled home assessment program</td>
<td>Megan Robshaw (Gloucester, United Kingdom), Helen Parrott, Emma Raywood, Dandi Qiao, Eric Harker</td>
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<td>PA1584 Addressing asthma management gaps with a respiratory digital ecosystem: A preliminary analysis</td>
<td>Christopher Licskai (London (ON), Canada), Joseph Cafazzo, Madonna Ferrone, Denise Ng, Anna Hussey, Quynh Pham, Cailey Ranot, Paul Pastoridis, Shumit Saha, Karen Mezzi</td>
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<td>PA1585 Evaluation of current self-management strategies in iOS and Android mobile applications on patients with asthma</td>
<td>Natsumi Nomura (Urayasu, Chiba, Japan), Jun Ueki, Emika Sano, Megumi Ikeda, Norihiro Harada, Hiroo Wada</td>
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<td>PA1586 Asthma-related goals to motivate adherence</td>
<td>Ayana Martins (Pfäffikon SZ, Switzerland), Giuseppe Ranieri</td>
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<td>PA1587 Effectiveness of mobile-based rehabilitation in COPD patients: feasibility study from rural Rajasthan</td>
<td>Neeti Rustagi (Jodhpur, India), Naveen Dutt, Suseendr S, Navratan Suthar</td>
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<td>PA1588 Quality and compliance to home-based spirometry in COPD patients</td>
<td>Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, Joanna C Porter, John R Hurst, Amos A Folarin</td>
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<tr>
<td>PA1589 Feasibility of wearable smart shirt technology for daily life physiology and symptom assessment in COPD</td>
<td>Hayley Lewthwaite (Merewether, Australia), Gennaro D’Elia, Sarah Johnson, Peter Gibson, Troy Cross, Vanessa M Mcdonald</td>
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<td>PA1590 A digital mindfulness-based intervention for COPD patients: a pilot study investigating the effects on psychological distress and stress</td>
<td>Florian Vafai-Tabrizi (Wien, Austria), Hannah Tschenett, Georg-Christian Funk, Urs Markus Nater</td>
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<td>PA1591 Telemonitoring and telerehabilitation in severe COPD patients awaiting lung transplant: a descriptive study</td>
<td>André Filipe Santos Nunes (Ponta Delgada, Portugal), Marta Santos, Cláudia Costa, Joana Barbosa, Cristina Santos, Fátima Rodrigues, Cristina Bárbara</td>
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<td>PA1592 Impact of symptoms and disease severity on digital mobility outcomes in COPD</td>
<td>Dimitrios Megaritis (Newcastle upon Tyne, United Kingdom), Joren Buckers, Tecla Bonci, Emily Hume, Lisa Alcock, Alison Yarnall, Encarna Mico Amigo, Philip Brown, Christopher Buckley, Silvia Del Din, Carlos Echevarria, Claudia Mazza, Lynn Rochester, Judith Garcia-Aymerich, Ioannis Vogiatzis</td>
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**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 Buckers, Inês Cobo, Jorge Lemos, José Marchena, Tecla Bonci, Brian Caulfield, Silvia Del Din, Heleen Demeyer, Anja Frei, Jeff M. Hausdorff, Anissa Ionescu, Kamar Aminian, Jochen Klenk, Enarna Mico Amugo, Paolo Piraino, David Singleton, Oleksandr Sverdlov, 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

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**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 Amnesi Maesano (Montpellier, France), Giovanni Viegi (Pisa (PI), Italy)

1. **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 Gislaason, Jørgen Brandt, Lise Marie Frohn, Camilla Geels, Joachim Heinrich, Mathias Holm, Christer Janson, Rain Jogi, Iana Markevych, Hans Ossur Anna Oudin, Vivi Schlünssen, Torben Sigsgaard, Ane Johannessen

2. **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 Gislaason

3. **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-Uribe, Alexis Payton, Martha Almond, Carole Robinette, Neil Alexis, Julia Rager, David Peden, Iona Jaspers

4. **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

5. **Greenness exposure: beneficial but multidimensional. A review.**

   Ane Johannessen (Bergen, Norway), Shanshan Xu, Achenyo Peace Abbah, Christer Janson

6. **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

7. **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 Garcia-Lopez, Christoffer Boman, Thomas Sandström, Annelie Behndig, Afa Muala

8. **Residential exposure to microbial emissions from livestock farms: implementation and evaluation of random forest land use models**

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 Graziieva

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, Turkey
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 Abah (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 Poncelet

PA1615  Partial pressure of arterial oxygen in healthy at altitude - A systematic review
Ahmet Sevik (Zuerich, Switzerland), Aglaia Forrer, Thomas Gaish, 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 Pandolfi, Velia Malizia, Giovanna Cilluffo, Salvatore Fasola, Giuseppe Piva, Liliana Cori, Giovanni Vieggi, 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)

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

Rhinovirus-induced preschool wheeze in combination with allergic sensitization increases the risk of asthma in early adolescence
Idun Holmdahl (Stockholm, Sweden), Sofia Lünning, Sabina Wärnberg Gerdin, Anna Asarnoj, Angela Hoyer, Anastasia Filiou, Anders Sjölander, Anna James, Magnus Borres, Gunilla Hedlin, Marianne Van Hage, Cillå Söderhäll, Jon R Konradsen
PA1620  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)
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shittal Patil, Yogesh Utage, Abhijit Acharya, Sham Toshniwal

PA1621  Real time mapping of particulate matter (PM) concentrations and paediatric asthma emergency department (ED) visits
Karl Holden (Liverpool, United Kingdom), Alice Lee, Charlotte King, Olufemi Olajide, Dan Hawcutt, Jonathan Higham, Ian Sinha

PA1622  Association of FCER2 gene polymorphisms with childhood asthma
Azer Kiliç Baskan (Istanbul, Turkey), Berrak Nevin Ozotosun, Huseyin Arslan, Ayşe Ayızt Kılınç Sakallı, Haluk Cezmi Cokurugas

PA1623  Risk factors for asthma related hospital admissions in children and adolescents: Analysis of 205,000 patients in England
Prasad Nagakumar (Birmingham (West Midlands), United Kingdom), Nikita Simms-Williams, Rasiah Thayakaran, Nicola Adderley, Krishnarajah Nirantharakumar, Adel Mansur, Shamil Haroon

PA1624  Near Fatal and Fatal Asthma in children and young people associated with outdoor air pollution: A systematic review.
Deepa Varghese (Glasgow, United Kingdom), Kathryn Ferris, Bohee Lee, Jonathan Grigg, Hilary Pinnock, Steve Cunningham

PA1625  Increased innate immune responses in children with acute asthma exacerbation
Shahid Sheikh (Columbus, United States), Joshua Walum, Katie Heyob, Brandon Lewis, Aiman Khan, Karen Mc coy, Benjamin Kopp, Mitchell Grayson, Rodney Britt

PA1626  Sex differences in childhood asthma is driven by a T2-high phenotype and mediated through sex hormone metabolites
Laura Hesselberg (København N, Denmark), Nicklas Brustad, Rikke Bjersand Sunde, Min Kim, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bønnelykke, Bo Chawes

PA1627  Is your home impacting on your child's asthma?
Abigail Whitehouse (London, United Kingdom), Charles Moorcroft, Jonathan Grigg

PA1628  Pattern and risk factor of lower respiratory illness in children who survived meconium aspiration syndrome
Kwang Hee Kim (Bucheon, Republic of Korea), Danbi Kim, Youngah Youn, Juyoung Lee, Hwan Soo Kim

PA1629  Allergic sensitisation, respiratory tract infections and subsequent preschool lung function: evidence from an Australian birth cohort study
Cassidy Du Berry (Melbourne, Australia), Rheanna Mainzer, Lawrence Gray, Louise King, Peter Sly, Peter Vuillermin, Sarath Ranganathan

PA1630  MicroRNAs shuttled by extracellular vesicles released by adenoid derived PBMC in children
Amelia Licari (Pavia (PV), Italy), Simona Taverna, Giuseppe Cammarata, Ilaria Brambilla, Lorenza Montagna, Anna Masucci, Velia Malizia, Gian Luigi Marseglia, Stefania La Grutta

PA1631  Perturbed urinary eicosanoids levels in early life associate with risk of atopic diseases in childhood
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

PA1632  Lung function trajectories in persistent asthma: from preschool to the schoolchildren.
Alberto Vidal (Santiago, Chile), Ramiro González, Selim Abara, Mónica Saavedra, Oscar Fielbaum, María Angelica Palomino, Alejandra Méndez

PA1633  Consensus priorities for outcomes in oral corticosteroid treatment for preschool wheeze: a nominal group technique study with clinicians and parents
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

PA1634  Efficacy of oral corticosteroids for preschool wheeze: a meta-analysis of individual participant data from seven randomised controlled trials
Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Meredith Borland, Péter Csonka, Jonathan Grigg, Theresa Guilbert, Tuomas Jartti, Abraham Oommen, Steff Lewis, Steve Cunningham

PA1635  Preschool wheeze and response to Haemophilus influenzae type B conjugate vaccine
Callum Tipton (Cambridge, United Kingdom), Theofilos Polychronakis

PA1636  Consensus priorities for outcomes in oral corticosteroid treatment for preschool wheeze: a nominal group technique study with clinicians and parents
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

PA1637  Efficacy of oral corticosteroids for preschool wheeze: a meta-analysis of individual participant data from seven randomised controlled trials
Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Meredith Borland, Péter Csonka, Jonathan Grigg, Theresa Guilbert, Tuomas Jartti, Abraham Oommen, Steff Lewis, Steve Cunningham

PA1638  Preschool wheeze and response to Haemophilus influenzae type B conjugate vaccine
Callum Tipton (Cambridge, United Kingdom), Theofilos Polychronakis
Patients previously treated for childhood interstitial lung disease display an increased prevalence of cognitive deficits, depression and anxiety.

Astrid Madsen Ring (Gentofte, Denmark), Martin Vestergaard, Ida Tröster Boege, Frederik Fourinaes Buchvald, Kim Gjerum Nielsen

PA1638 Causes of stridor in children - the ten-year experience of a tertiary center
Aleksandar Sovtić (Beograd, Republic of Serbia), Bojana Gojsina, Milan Rodic, Jelena Visekruna, Mihail Basa

PA1639 Subglottic stenosis in children – etiology and treatment
Aleksandar Sovtić (Beograd, Republic of Serbia), Bojana Gojsina, Milan Rodic, Jelena Visekruna, Mihail Basa

PA1640 Bronchoalveolar lavage findings in children with chronic unexplained cough
Ivan Pavić (Zagreb, Croatia), Manuela Radić, Roberta Šarkanji Golub, Draženka Ezgeta Karalić, Iva Hojsak

PA1641 Role of impedance study in paediatric recurrent respiratory symptoms
Kushalini Hillson (London, United Kingdom), Surendran Thavagnanam, Chinedu Nwokoro, Sarah Brown, Abigail Whitehouse, Caroline Pao, Muna Dahabreh

PA1642 Pneumothorax in childhood: A retrospective single center study
Merve Aka (Ankara, Turkey), Merve Kasikci, Halime Nayır Buyukşahin, Dilber Ademhan Tural, Nagehan Emiralioğlu, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

PA1643 Alpha-1 antitrypsin deficiency (AATD)
Michele Ghezzi (Bergamo, Italy), Alice Romero, Stefania Roncaglia, Sara L’Assainato, Enza D’Auria, Gian Vincenzo Zuccotti

PA1644 Association between lung ultrasound findings, pulmonary function tests and chest radiography in children with cystic fibrosis
Didem Alboğa (Altındağ, Turkey), Nagehan Emiralioğlu, Berna Oğuz, Halime Nayır Büyükşahin, Ismail Güzelkaş, Birce Sunman, Meltem Akgül Erdal, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

PA1645 Complications of tracheobronchial foreign body aspiration in children
Alexandru Corlateanu (Chisinău, Republic of Moldova), Diana Rotaru-Cojocari, Victor Rascov, Iurie Simionica, Eva Gudumac, Svetlana Sciuca

PA1646 Neutrophil lymphocyte ratio, mean platelet volume, and immunoreactive trypsinogen as early inflammatory biomarkers for cystic fibrosis in infancy: A retrospective cohort study
Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Ayshe Tana Aslan, Pelin Asfuroğlu, Nursima Kunt, Ali Ersoy, Mehmet Kose, Gökçe Onal, Sevgi Pekcan

PA1647 Evaluation of the efficacy of inhaled bronchodilators in infants with bronchiolitis through respiratory function testing: a pilot study
Laura Petrарca (Roma (RM), Italy), Raffaella Nenna, Maria Giulia Conti, Domenico Paolo La Regina, Enrica Mancino, Elio Iovine, Antonella Frassanito, Fabio Midulla

PA1648 Mucoepidermoid Tumour of bronchus: Case report of a rare airway tumour & role of Interventional Pulmonology in management
Shubham Sharma (Jaipur (Rajasthan), India), Apar Jindal

PA1649 Management of neurotypical children with recurrent aspiration
Priyanka Patel (Pinner, United Kingdom), Christine Lim, Simone Hadjisymeou-Andreou, Lauren Harwood, Samantha Sonnappa

PA1650 Evaluation of Children with Stridor by Flexible Bronchoscopy
Merve nur Tekin (Ankara, Turkey), Mukaddes Agirtici, Gizem Özcan, Fazılcan Zirek, Secahattin Bayav, Nazan Çobanoğlu

PA1651 Alexithymia in primary ciliary dyskinesia
Gökçe Unal (Konya, Turkey), Hanife Tuğçe Çaglar, Sevgi Pekcan, Fatih Ercan, Aslı Turkut

PA1652 Late Breaking Abstract - Are breath-actuated inhalers effective in managing acute asthma exacerbations in children?
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 Preemies: 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, Élias 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 Bogelund, Mark Augen, 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 Hernandez Hernandez, Alejandro Heredia Cuiró, Andrés Calvache Mateo, Miguel Hernandez 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 Stefandsdottir

PA1660  Partnership-based nursing practice framework for patients with chronic obstructive pulmonary disease and their families
Helga Jonsdottir (Reykjavik, Iceland), Bryndis Halldorsdottir, Þ. Soley Ingadottir

PA1661  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*

PA1662  Pulmonary Rehabilitation Intervention to Maintain Exercise Behavior (PRIMEb) – a motivational analysis.
Duarte Pinto (Matosinhos, Portugal), Nuno Macedo, Raquel Marques, Maria Joao Cunha, Sonya Rocha, Ana Carvalho, Jorge Encantado, Vania Rocha, Paulino Sousa, Paulo Machado, Miguel Padilha

PA1663  General practitioner's referencing habits to pulmonary rehabilitation in a Portuguese urban area
Liliana Silva (Matsinhos, Portugal), Tiago Maricoto, Paula Simão, Patricio Costa, José Miguel Padilha

PA1664  A case study of a nurse-led maintenance pulmonary rehabilitation programme
Liliana Silva (Matsinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patricio Costa, José Miguel Padilha

PA1665  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 Sorknaes, Helle Guldager Corydon

PA1666  Pressure injuries and respiratory devices: descriptive observational study
Margherita Beretta (Milano, Italy), Cristina Piola, Francesco Blasi, Andrea Bellingeri, Enrico Maria Marone, Barbara Sappa

PA1667  Repercussions of rehabilitation nurse’s intervention on critical patients’ ventilation with inspiratory muscle training
Luis Estevao (Matosinhos, Portugal), Maria Jose Gomes, Liliana Silva

PA1668  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 Benitez, Sofia Hernandez Hernandez, Javier Martin Nuñez, Laura Lopez Lopez, Irene Cabrera Martos, Marie Carmen Valenza
Correlation study between sleepiness while driving, and daytime sleepiness.
Alejandro Pastor Campo (Sant Boi de Llobregat (CT), Spain), Victoria Pastor Campo, Isabel Portela Ferreño

Patient education in self-care management of individuals with COPD in Turkey
Merve Kıyımaç Sari (Şişli, Turkey), Rahşan Çevik Akyıl, Gamze Oğuz, Zehra Durna

Assessment of respiratory distress in small children
Majda Oštir (Ljubljana, Slovenia), Katarina Korenin, Magdalena Zupan, Uros Krivec

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

What effect does home-based management have on patients with COPD hospital readmission rates?
Rita Corcoran (Westport, Ireland), Bridget Murray

Experiences of patients with advanced COPD affiliated with a cross-sectorial lung team.
Birgit Refsgaard (Aarhus V, Denmark), Anders Lokke, Vibeke Bregnballe, Lotte Rodkjaer

Lactoferrin in Long COVID patients (LARGO): a randomized, double-blind, controlled trial
Anne-Lotte Redel (Rotterdam, Netherlands), Fatana Miry, Laurien Oswald, Gert-Jan Braunstahl

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

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.

Temporal development of non-pharmacological maximum therapies for COVID-19 inpatients
Sandhya Matthes (Solingen, Germany), Johannes Holl, Johannes Randerath, Marcel Treml, Lars Hagmeyer, Winfried Randerath

Virucidal efficacy of cetlypyridinium chloride lozenges against coronavirus and influenza virus
Graça Coutinho (London, United Kingdom), Tina Peiter, Maren Goelzer, Tessa Stahl, Yetunde Kolade, Maren Eggers

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, Darurat Ekombatchai, Kanin Thammanavaranucupt, Somnuek Sungkanuparp, Yuda Sutherasan

Antiviral and anti-inflammatory effects of Erdosteine and MET-1 in SARS-CoV-2 in vitro infection
Sergio Strizzzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Radovanovic, Daria Trabattoni, Pierachille Santus

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.
Remedios Otero Candelera (Sevilla, Spain), Demetrio González-Vergara, Isabel Caparrós, Alberto Garcia-Ortega, Consolación Rodríguez-Matute, Jorge Moisés, Lucia Marin-Barrera, Javier Rodriguez-Martorell

Lopinavir-ritonavir versus darunavir-norvir for hospitalized COVID-19 patients
Dóra Paróczai (Deszk, Hungary), András Bikov, Andrea Bledaru, Emanuel Bobu, Bianca Cerbu, Iosif Marincu, Stefan Mihaicuta, Stefan Fren
t

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 Boonsarnsuk, Somnuek Sangkanuparph, Kanin Thammavarununuc, Suppachok Kirdlarp, 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

PA1689 Chronic COPD medications and CoViD-19 mortality- an observational study.
Anastasios Stringaris (HERAKLION, Greece), Georgios Makris, Theodoros Moschopoulos, Eirini Pasparaki, Myrto Plouxasaki, Emmanouil Ferdoutsis, Georgios Meletis

PA1690 Tozorakimb 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 Cvetkovic Kučić

PA1693 Benefits of N-Acetylcysteine in the SARS-CoV-2 infection
Mª Angeles Galindo-Andúgar (Alcázar de San Juan, Spain), Ángel Arias-Arias, Alfonso García-Guerra, Ana Bellido-Maldonado, Iciar Fernández-Visier, Antonio Cantillo-Berni, Sara Rodriguez-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)

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

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

Relationship between age and chemotherapy regimen for elderly patients with advanced lung cancer
Ritsuya Shiiba, Yoshihito Kogure, Hirotou Muraou, Yuki Takigawa, Atsushi Torii, Arisa Yamada, Yuka Shinohara, Hidemasa Niwa, Masahiro Sano, Chiyo Kitagawa, Masahide Oki

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
Quantitative analysis of preoperative, intraoperative and postoperative circulating cell-free DNA in patients with resectable non-small cell lung cancer
Stylianos Gaitanakis (Nikaia, Greece), Anna Papadopoulou, Eleni Kokkotou, Timothy Sakellaridis, Periklis Tomos, Lamprini Stournara, Maria Mani, Eleutheria Ntalakou, Andriani Charpidou, Dimitra Grapsa

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 Schölich

Significance of the Lung Immune Prognostic Index for Assessment 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 Samardžija, Lara Batić

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

Extracellular vesicles derived from central nervous system suppresses antitumor immunity
Jiaoli Wang (Hangzhou (Zhejiang), China), Man Luo, Li-Min Wang, Zhi-Jian Cai

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

Prognostic implication of KRAS G12C mutation in a real-world KRAS mutated stage IV NSCLC cohort treated with immunotherapy in the Netherlands

Evaluation 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

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, Yeong Chang Dong

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, Fiorenza Calabrese, Simonetta Baraldo, Manuel G. Cosio, Marina Saetta

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

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

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 Heinzinger, Thomas Pfluger, Amanda Tufman

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

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 Martin, Nacho Aguiló

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 Decotignies

PA1716  Screening of first-degree relatives of IPF patients with a telomere-related gene mutation
Tinne Goos (Leuven, Belgium), Nathalie Veyt, Evelien Van Hoof, Karen Rosier, Stefan Gogaert, Marie Vermant, Lynn Willems, Frederik Staelens, Ilse Van Raemdonck, Sam Thierie, Emanuelu Elsa Cortes, Laurens J De Sadeler, Jonas Yserbyt, Nico De Crem, Joseph Jacob, Marianne S Carlon, Johny Verschakelen, Adriana Dubbeldam, Anniek Corveleyn, Stijn E Verleden, Sascha Vermeir, Wim A Wuyts

PA1717  Familial interstitial pneumonia: survival is independent of interstitial lung disease etiology
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

PA1718  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
Lian Trapman (Zoelmond, Netherlands), L.M. Dijksman, J.C. Grutters, S.C.C.M. Teunissen

PA1719  The development of an integrative palliative care intervention for patients with progressive pulmonary fibrosis: application of SUPPORT™(USA) to the Dutch setting

PA1720  Mortality and Lung Function Decline of Idiopathic Pulmonary Fibrosis Patient with Ezetimibe and Pirfenidone
Jinhyung Cho (Seoul, Republic of Korea), Chanho Lee, Se Hyun Kwak, Young Sam Kim

PA1721  A new instrument to assess disease-related fears in Interstitial Lung Disease (ILD): The ILD-Anxiety-Questionnaire (IAQ)
Nina Piel (Berlin, Germany), Michael Kreuter, Klaus Benn, Nikola Stenzel

PA1722  Perspectives On Screening and early Treatment for Pulmonary Fibrosis: a qualitative study
Laura Fabbri (London, United Kingdom), Gisli Jenkins, Louise Doran, Manpreet Bains

PA1723  Preclinical idiopathic pulmonary fibrosis (IPF): a retrospective cohort study
Tomohiro Bando (Seto, Japan), Reoto Takeri, Jun Fukihara, Hajime Sasa, Yasuhiro Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kenseke Kataoka, Tomoki Kimura, Hiroto Hatabu, Junya Fukuda, Takeshi Jokoh, Yasuhiro Kondoh

PA1724  Impulse oscillometry assesses small airway disease and reveals peripheral lung pathology in pulmonary fibrosis
Athena Gogali (Ioannina, Greece), Georgia Gkrepi, Christos Kyriakopoulos, Konstantinos Tatsis, Konstantinos Exarchos, Hara Tselepi, Konstantinos Kostikas

PA1725  Short-term evolution of nutritional status in patients with idiopathic pulmonary fibrosis
Giovanni Franco (Monza, Italy), Paola Faverio, Alessia Funamagali, 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 Lanzio, Matteo Dea Zoppa, Silvia Crotti, Marco Grossi, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Niccoli, Giulia Sorgo, Sara Busnelli, Giuseppe Paciocco, Sara Lettieri, Lorenzo Giovanni Mantovani, Giancarlo Cesana, Alberto Pesci, Fabrizio Luppi

PA1726  Shared multidisciplinary approach to the complex management of patients with pulmonary fibrosis and impact on time to multidisciplinary diagnosis, accessibility to antifibrotics and environment
Mariam Naqvi (London, United Kingdom), Thomas Simpson, Alex West

PA1727  Impact of pulmonary fibrosis on the lives of patients and carers in Ireland in 2022
Colin Edwards (Dublin, Ireland), Nicola Cassidy, Daniel Sheahan, Gemma O'Dowd, Lindsay Brown, Katherine O'Reilly

PA1728  Nintedanib side effect risk stratification: targeting nurse support at a single UK prescribing centre
Carmine Ruggiero (Oxford, United Kingdom), Shakila Hussain, Karen Parsons, Sarah Poole, Michael Avoseh, Emily Fraser, Ling-Wei Ho, Peter Saunders, Rachel K. Hoyles

PA1729  Factors associated with non-intervention with antifibrotic agents in IPF patients
Maki Asami (Ube (Yamaguchi), Japan), Kazuki Hamada, Takeshi Abe, Keiji Oishi, Tsunahiko Hirano, Yoshiyuki Asai, Kazuto Matsunaga
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 Borzekofsky, Tzili Herskho, Evgeni Gershman, Yochai Adir, Amir Bar-Shai, David Shitrit, Avraham Unterman

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 Cavaillès, Laurent Cellerin, F.Xavier Blanc, Stéphanie Dirou

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

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

Correlation of pulmonary functional tests with data from thoracic high resolution tomography using lung texture analysis software in ILD.

Jacobo 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

Poster session: Sarcoidosis: challenges in disease assessment and management of complications

Disease(s): Intestinal 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)

Long-term effectiveness of infliximab treatment in refractory sarcoidosis

Angela Mikáczó (Nyírábrány, Hungary), Ildikó Horváth, László Brugós, Anna Sárközi

Lung Texture Analysis to phenotype Sarcoidosis

Andrew McCorkell (Belfast, United Kingdom), Cormac Mccool, Victoria Steele, Lisa Graham, Rory Kelly, Eoin Murtagh, Paul Minnis

Survival in sarcoidosis – 11 years of observation of 2625 patients

Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros

Cardiac and brain involvement in Sarcoidosis, Data from the Austrian registry

Claudia Guttmann-Ducke (Wien, Austria), Christopher Milacek, Andreea-Nicoleta Avram, Dietrich Beitzke, Daniela Gompelmann, Marco Idzko

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

Pulmonary rehabilitation in sarcoidosis: a systematic review and meta-analysis

Estrella Caballería 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 Sellares

Severe sarcoidosis: Management and prognosis

Soumaya Ben Saad (Ariana, Tunisia), Rhab Jebali, Amani Ben Mansour, Azza Slim, Hafáoua Daghfous, Fatma Tritar

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

Characteristics of sarcoidosis patients admitted to hospital – one center experience

Karol Bączek (Łódź, Poland), Joanna Milkowska-Dymanowska, Wojciech Piotrowski

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
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 Golebiowski, Piotr Iwanowski, Marta Dudek, Samson Fung

Prevalence of refractory pulmonary sarcoidosis in Ukraine

Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavrysyuk, Yaroslav Dziublyk, Galyna Gumeniuk

Evaluation of bone mineral density and fracture risk in sarcoidosis population

Paolo Cameli (Siena (SI), Italy), Carla Caiffarelli, Antonella Al Refaie, Elisa Giglio, Giulio Manzana, Caterina Mondillo, Yari Noacco, Carmela Olivieri, Laura Bergantini, Miriana D’Alessandro, Elena Bargagli, Stefano Gonnelli

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

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

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

Prevalence of cardiac involvement in a cohort of patients with Sarcoidosis

Lorena Gallotti (Naples, Italy), Claudio Candia, Francesco Coppa, Santo Dellegrottaglie, Anna Agnese Stanziola

Clinical and radiological presentation of patients treated for sarcoidosis

Nicol Bernardinello (Trecenta (RO), Italy), Simone Petrarulo, Maria Gamba, Claudio Candia, Francesco Coppa, Santo Dellegrottaglie, Anna Agnese Stanziola

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

Serum D-dimer levels as an activity marker in sarcoidosis

Halil Yanardag (Istanbul, Turkey), Muammer Bilir, Cuneyt Tetikkurt, Emre Yanardag

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

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, Agustin Roberto Garcia, Xavier Alsina Restoy, Clara Martin Ontiyuelo, Ana Maria Ramirez Gallardo, Joan Albert Barberà, Isabel Blanco

A qualitative exploration of pulmonary hypertension patients’ views and experience with a remotely delivered home-based exercise program

Ciara McCormack (Navan, Ireland), Briona Kehoe, Niall Moyna, Sarah Sullivan, Brian McCullagh, Sean Gaine, Sarah Hardcastle

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

Inspiratory muscle training in patients with pulmonary hypertension: a double-blind randomized controlled trial

Elaine Vieira (São Caetano do Sul (SP), Brazil), João Vitor Rolim, Ivan Ivanaga, Vitor Souza, Priscila Sperandio, Eloara Ferreira, Jaqueline Ota-Arakaki, Luiz Eduardo Nery, Roberta Ramos
Reproducibility of CPET variables in subjects with pulmonary arterial hypertension: Preliminary data from ADVANCE CAPACITY

Carrie Ferguson (Torrance, United States), Janos Porszasz, Louis Holdstock, Youlan Rao, David Yehle, Raymond Benza, Ronald Oudiz

A pilot study of a digital 1-Minute Walk Test as a novel decentralised endpoint in pulmonary hypertension research

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

Perceived barriers to physical activity in pulmonary hypertension

Layse Nakazato (Campinas, Brazil), Vitória Veronez, Tatiana Kiyota, Paulo Mendes, Marcos Moreira, Mônica Pereira

Usefulness of Heart Rate variability measurement during 6-MWT in Pulmonary Arterial Hypertension

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

Correlation between lung vessel morphology and prognostic markers in pre-capillary pulmonary hypertension

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. Bunck

Increased right ventricular myocardial strain in unaffected adults carrying gene mutations predisposing to pulmonary arterial hypertension

Eszter Nóra Tóth (Amsterdam, Netherlands), Lucas Celant, Samara Jansen, Lilian Meijboom, Frances S De Man, Anton Vonk Noordegraaf, Harm Jan Bogaard

Impact of pulmonary arterial hypertension therapies on gas exchange in portopulmonary hypertension

Thomas Lacoste-Palasset (Le Kremlin-Bicêtre, France), Antoine Beurnier, Audrey Baron, Marie-Caroline Certain, Xavier Jaïs, Anne Roche, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

The impact of tricuspid regurgitation on the non-invasive assessment of stroke volume derived from cardiac magnetic resonance in pulmonary hypertension

Andrea Baccelli (Milano, Italy), Deepa Gopalan, Gulammehdi Haji, Rachel Davies, Michele Mondoni, Stefano Centanni, Luke Howard, Francesco Lo Giudice

Right ventricular strain-time curves in patients with pulmonary arterial hypertension – an exploratory analysis

Julian Pott (Hamburg, Germany), Dora Csengeri, Jonna Ostermann, Hans Klose, Christoph Sinning, Lars Harbaum

Prognostic impact of RV-PA coupling in patients with mild-or exercise pulmonary hypertension

Teresa Sassmann (Graz, Austria), Antonia Eger, Vasile Foris, Nikolaus John, Katarina Zeder, Manuel Richter, Khodr Tello, Horst Olschewski, Gabor Kovacs, Philipp Douschan

Right ventricular longitudinal strain using cardiac magnetic resonance for risk stratification in patients with pulmonary hypertension

Yoshihiro Sato (Toyoake, Japan), Shigefumi Fukui, Hideki Kawai, Akira Yamada, Masayoshi Sarai, Hideo Izawa

Right ventricular strain-time curves in patients with pulmonary arterial hypertension

Yoshihiro Sato (Toyoake, Japan), Shigefumi Fukui, Hideki Kawai, Akira Yamada, Masayoshi Sarai, Hideo Izawa

Concordance of right ventricular evaluation by pocket ultrasound and transthoracic echocardiography in patients with pulmonary hypertension

Pamela Mercado velazquez (Mexico city, Mexico), Estrella Jor Esteban Estrella, José Luis Hernández Oropeza, Ivette Buendía Roldán, Tatiana Sofia Rodriguez Reyna, Consuelo Orixuela Sandoval, Jesús Rodriguez Andoney

The effect of high altitude (2500m) on incremental cycling exercise in patients with pulmonary vascular disease. A randomized controlled cross-over trial

Julian Möller (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

Pulmonary arterial wedge pressure increase during exercise in patients with pulmonary vascular disease

Julian Möller (Zürich, Switzerland), Laura Mayer, Simon R. Schneider, Anna Titz, Esther I. Schwarz, Stephanie Saxer, Michael Furian, Ekkehard Grünig, Silvia Ulrich, Mona Lichtblau
Chairs: Anand Sundaralingam (Oxford, United Kingdom), Radhika Banka (Mumbai (Maharashtra), India)

PA1775 Retrospective risk factor analysis for re-expansion pulmonary oedema after therapeutic pleural effusion drainage at a single centre
Sharan Kumar (Cambridge, United Kingdom), Emilia Swietlik, Jurgen Herre

PA1776 Bronchial fistulas complicating pneumonectomy: predictors and treatment
Sarra Zairi (Tunis, Tunisia), Selma Madhi, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Sonia Ouerghi, Adel Marghi

PA1777 Retrospective comparison of the clinical outcomes between low and standard starting doses of intrapleural tissue plasminogen activator in pleural infection
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

PA1778 Preventing future chest drain related deaths
Tanjila Khan (Harrow, United Kingdom), Clare Ross, Rudy Sinharay, Mirae Park, Anne O'Mahony, Christina Torrealba, Carl Reynolds

PA1779 Treatment and clinical outcomes in pleural infection: preliminary results from a multi-centre study
Chiara Fattori (Ancona, Italy), Luca Piergentili, Martina Bonifazi, Francesca Barbisan, Gaia Goteri, Lina Zuccatosta, Alessandro Di Marco Berardino, Michele Sediani, Francesca Gonelli, Laura Cirilli, Francesco Maria Porcarelli, Piero Emilio Balbo, Elena Paracchini, Giovanna Elisiana Carpanagno, Stefano Gasparini, Giampietro Marchetti, Federico Mei

PA1780 To determine the efficacy of autologous blood patch therapy in reducing air leak in secondary spontaneous pneumothorax.
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

PA1781 Safety of Ultrasound-guided Medical Thoracoscopy in Patients with Minimal Pleural Effusion
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

PA1782 Intrapleural instillation of r-tPA in complicated parapneumonic effusion or empyema: a single center experience
Ourania Papaioannou (Patras, Greece), Electra Koulousousa, Theodoros Karampitsakos, Panagiota Tsiri, Georgios Tsirikos, Vasilina Sotiropoulou, Eva Theochari, Ioannis Christopoulos, Matthais Katsaras, Eirini Zarkadi, Eill Malakounidou, Fotios Sampsonas, Argyrios Tzouveleakis

PA1783 Combination of erector spinae nerve block (ESP) and serratus plane nerve block (SPB) in opioid-free medical thoracoscopy (MT).
Giuseppe Adamo (PALERMO, Italy), Marta Amata, Giuseppe Arcoleo, Maria Rosaria Bonsignore, Patrizia Mazzotta, Francesco Tarantino, Baldassare Renda

PA1784 Implementation of a proforma for invasive pleural procedures at a district general hospital in the United Kingdom
Swetha John (Finchampstead, United Kingdom), Nur Ilyana Aini Mohamed Jamil, Chung-Mei Maggie Cheung, Dipak Mukherjee, Kanwar Pannu

PA1785 Diagnostic Utility of Medical Thoracoscopy in Undiagnosed Pleural effusion
Ranganath Thippanahalli Ganga (Raipur (Chhattisgarh), India), Vikas Kumar, Ajoy Behera, Dibakar Sahu, Rakesh Gupta, Amit Rath, Saisoma Kiran

PA1786 High flow oxygen vs standard management during medical thoracoscopy - a randomised controlled trial
Andrei Darie (Basel, Switzerland), Leticia Grize, Kathleen Jahn, Anna Salina, Jonathan Röcken, Matthias Herrmann, Maria Pascarella, Vivian Suarez, Werner Strobel, Michael Tam, Daiana Stolz

PA1787 Regional review of practice in endobronchial stenting in central airways obstruction
Daniel Crowle (Callington, United Kingdom), Parniya Arooj, Joel Eyekpegha, Osama Elzain, Mohammad Awan, Francesco Selli, Priyadharshanan Ariyaratnam, Joseph Rahamim, Adrian Marchbank, Cyrus Daneshvar

PA1788 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.
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Charul Dabral, Many Narain Tyagi

PA1789 A study of airway abnormalities and characterization of lesions at flexible bronchoscopy in Nepalese patients presenting with chronic cough with normal radiological imaging
Rejina Shahi (dharan, Nepal), Deebya Raj Mishra, Narendra Bhatta, Avatar Verma, Gunjan Regmi

PA1790 EBUS-TBNA in octogenarians: Diagnostic yield, sedation, and safety. An 8 month, single center, experience
Fotios Sampsonas (Patra, Greece), Georgios Tsirikos, Matthias Katsaras, Theodoros Karampitsakos, Ourania Papaioannou, Panagiota Tsiri, Elektra Koulousousa, Vasilina Sotiropoulou, Eirini Zarkadi, Eill Malakounidou, Argyrios Tzouveleakis
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

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

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

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 Genevica Macchione, Pauliane Vieira Santana, Leticia Zumpano Cardenas, Pedro Caruso, Carlos Roberto Ribeiro Carvalho, André Luis Pereira Albuquerque

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

Effect of beta-alanine supplementation on histidine-containing dipeptides in persons with COPD.
Jana De Brandt (Umeå, Sweden), Thibaux Van Der Stede, Jan Spaa, Sarah De Jager, Chris Burtin, Martijn A. Spruit, Wim Derave

High muscle quality index in early follow up predicts 1 year recovery following hospitalisation for COVID-19

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 Piskač Živković

A simplified method of twitch mouth pressure measurement for the diagnosis of diaphragmatic dysfunction
Georgia Mitropoulou (Prilly, Switzerland), Maura Prella, Raphaël Heinzer

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

Can 05 minutes of daily ‘Om’ chanting increase the respiratory muscle endurance?
NEERJA SHASTRI (Jaipur, India), Ketaki Poorey, Vishwas Mahajan

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

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

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 Gruest, Aurélien Philippe, Jeanne Rancic, Nicolas Gendron, Christophe Hédon, Antonio Perez-Martín, Anne Virsolvy, Olivier Cazorla, Yves Dauvilliers, Maurice Hayot, Arnaud Bourdin, Elisa Rossi, David Smadja, Farès Gouzi

The effect of rehabilitation on total lung volume and blood vessel volumes in long covid
Wendel Diercks (Kontich, Belgium), Kris Ides, Yinka De Meyer, Erik Franck, Eline Lauwers, Benjamin Lavon, Jan De Backer, Bita Hajian, Wilfried De Backer
**Effect of Exercise Training on Prognosis in Community-Acquired Pneumonia: A Randomised Controlled Trial**
Camilla Koch Ryrsø (Frederiksberg, Denmark), Daniel Faurholt-Jepsen, Christian Ritz, Maria Hein Hegelund, Arnold Matovu Dungu, Bente Klarlund Pedersen, Rikke Krogh-Madsen, Birgitte Lindegaard

**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

**Dissociation between dyspnea grade and maximum oxygen consumption**
Mercedes Carrasco Sánchez (Móstoles, Madrid, Spain), Javier Carrillo Hernández-Rubio, Valentina Pérez Méndez, Anna Rebeca Hernández González, Angelika Szabol, Estefania Llopis Pastor, Mercedes García-Salmones Martín

**Acute mountain sickness in women – A pilot study**
Aijan Taalaibekova (Bishkek, Kyrgyzstan), Michelle Meyer, Stefanie Ulrich, Gulzada Mirzalieva, Maamed Mademilov, Talant M. Soorobayev, Silvia Ulrich, Konrad E. Bloch, Michael Furian

**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

**Impact of oxygen therapy and noninvasive ventilation on sympathetic drive in COPD patients.**
Binaya Regmi (Aachen, Germany), Faniry Ratsimba, Benedikt Jörn, Meldi Senol, Oscar Gorol, Lukas Nieken, Ayham Daher, Vaughan Macfield, Michael Dreher, Jens Spiesshofer

**Impact of blunted cerebral oxygenation on COPD patients’ functional performance**
Afroditi Boutou (Thessaloniki, Greece), Marieta Theodorakopoulou, Aggelos Koutlas, Andreas Zafeiridis, Panteleimon Sarafidis, Konstantina Dipla

**Late Breaking Abstract - Inspiratory muscle strength training improves dyspnea related to diaphragm muscle weakness in patients with long COVID-19**
Jens Spiesshofer (Aachen, Germany), Binaya Regmi, Rainer Glückl, Michael Dreher

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**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

**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

**Use of Diaphragmatic Ultrasound to evaluate respiratory function in patients with Amyotrophic Lateral Sclerosis**
Isabel Martinez González-Posada (Oviedo, Spain), Juan Cascón Hernández, Pablo Lozano Cuesta, Ramón Fernández Alvarez, Lucía García Alfonso, Francisco Julián López González, Miguel Ariza Prada, Ines Ruiz Alvarez, Ina Guerrassimova, Angela Lanza Martínez, Laura Martinez Vega, Juan Nieves Salceda, Laura Abad Chamorro, Eduardo Sanchez Vázquez, Patricia Alvarez Alvarez, Maria Rodil Riera

**Survey on lung ultrasound usage by portuguese pulmonologists**
María Beatriz Dias Ferraz (Porto, Portugal), Bruno S. Silva, Filipa Correia, Maria Inês Costa, Maria Esteves Brandão, Nuno Cortesão

**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

**Lung ultrasound based prediction of CT-scan Severity Score in COVID-19**
Panaotis Finamore (Roma (RM), Italy), Emanuele Gilardi, Moises Muley, Tommaso Grandi, Silvia Navarin, Michela Orrù, Chiara Bucci, Simone Scarlata, Francesco Travaglino, Federica Sambuco
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<th>Paper ID</th>
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<td>PA1820</td>
<td>Comparison of lung ultrasound findings in patients with pulmonary tuberculosis and lobar pneumonia: a case-control study.</td>
<td>Uma Devaraj (Bangalore (Karnataka), India), Priya Ramachandran, Kavitha Venkatnarayan, Chitra Veluthat, Uma Maheswari K</td>
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<td>PA1821</td>
<td>Role of Lung Ultrasound in detection and assessment of severity of ILD in patients with Systemic sclerosis</td>
<td>Richa Gupta (Vellore (Tamil Nadu), India), Davis Joseph K J, Avinash Nair, John Mathew, Manisha Mane</td>
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<td>PA1822</td>
<td>Diaphragm sonography as an educational aid in CPAP and NIMV treatment</td>
<td>Angelo Longoni (Mariano Comense (CO), Italy), Carla Bassino, Tiziana Cappelletti, Francesca Frassanito, Lorenza Fusetti, Giacomo Concas, Marielle Vago, Antonio Paddeu</td>
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<td>PA1823</td>
<td>US training system for ultrasound-guided thoracic interventions</td>
<td>Ana Belén Llanos Gonzalez (La Orotava, Spain), Natalia Arteaga-Marrero, Enrique Villa, Orlando Acosta Fernández, Juan Bautista Ruiz-Alzola, Javier González-Fernández</td>
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<td>PA1824</td>
<td>Diagnostic accuracy of lung ultrasound with elastography in predicting malignant origin of pleural effusions in an emergency department</td>
<td>Rune Wiig (Odense C, Denmark), Casper Falster, Niels Jacobsen, Stefan Posth, August Emil Licht, Christian Laursen</td>
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<tr>
<td>PA1825</td>
<td>Quantitative US echogenicity to differentiate exudate from transudate pleural effusion</td>
<td>Ala’a Amin (Alexandria, Egypt), Mona El Hoshy, Maged Hassan</td>
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<td>PA1826</td>
<td>Difference in strain elastosonography between benign and malignant peripheral lung lesions</td>
<td>Ahmed Farag Abouelnour (Alexandria, Egypt), Mona Saleed El-Housy, Essam Gouda Hassanein, Ayman Ibrahim Baess, Rania Ahmad Sweed, Doaa Mokhtar Emara</td>
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<td>PA1827</td>
<td>A retrospective review of the sonographic features of rheumatoid pleuritis.</td>
<td>Hui Guo (Northcote (VIC), Australia), Žin Sein, Beenish Iqbal, Dinesh Addala, Anand Sundaralingam, Poppy Denniston, Najib Rahman</td>
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<tr>
<td>PA1828</td>
<td>Replacing fluoroscopy with ultrasound to evaluate diaphragm excursion? A method comparative study.</td>
<td>Søren Helbo Skaarup (Aarhus C, Denmark), Peter Juhl-Olsen, Brian Bridal Logstrup</td>
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<td>PA1829</td>
<td>Assessing the accuracy of pleural puncture sites as determined by clinic-radiological examination versus Lung Ultrasound-a prospective study.</td>
<td>Naveen Dutt (Jodhpur (Rajasthan), India), Shahir Asfahan, Nishant Kumar Chauhan, Ramniwas -, Mahendra Kumar Garg, Pawan Kumar Garg, Gopal Krishna Bohra, Nitin Kumar Bajpai</td>
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<td>PA1830</td>
<td>Point-of-care ultrasound for the assessment of subglottic and cervical tracheal stenosis: A Prospective, Multicenter, Exploratory Study</td>
<td>Mingming Deng (Beijing, China), Gang Hou, Jieru Lin</td>
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<tr>
<td>PA1831</td>
<td>Validation of transthoracic shear-wave ultrasound elastography in diagnosing pleural lesions</td>
<td>Yao-Wen Kuo (Taipei City, Taiwan), Yen-Lin Chen, Huey-Dong Wu, Hao-Chien Wang</td>
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<tr>
<td>PA1832</td>
<td>Evaluation Of Atherosclerosis As A Risk Factor in COPD Patients By Measuring The Carotis Tunica Intima-Media Thickness.</td>
<td>Ali Firincioglulari (Nicosia, Cyprus), Hakan Ertürk, Mjgın Firincioglulari, CigDEM Biber</td>
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<td>PA1833</td>
<td>Comparison of diagnostic yield and complications in ultrasound-guided thoracocentesis versus non-ultrasound guided thoracocentesis in a Level 3 Hospital</td>
<td>Jack McCarthy (Dublin, Ireland), Niamh Boyle, Caitlyn Pacliban, Colm Quigley</td>
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**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 Baćura (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, Liliana Andrade, Maria Aurora Mendes, Vera Alfreixo, 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 Rodriguez-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

Peter Kamstrup (Hellerup, Denmark), Pradeesh Sivapalan, Christian Rønn, Ema Rastoder, Daniel Modin, Anna Kjær 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 Mulet, Audrey Brisebarre, Myriam Polette, Gaëtan Deslé, Jeanne-Marie Perotin, Valérien Dorny

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 cilia (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 Kangoué

PA1849 Late Breaking Abstract - Knocking-down FAM13A during lung epithelial differentiation alters the development of cilia
Linda Yrlid (Gothenburg, Sweden), Jenny Hornsdal, Rebecka Svärd, Lynda Hogsström, 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
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

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

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

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

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 Banchero, Marissa Wisman, Mubeen Khan, Djoke V. Gosliga, Tessa Kol, Dirk-Jan Slebos, Karin Klooster, Maarten V. D. Berge, Martijn C. Nawijn, Corry-Anke Brandsma, Irene H. Heijink

Rat-to-human translation of an antigen-specific, CD4+ T-cell-induced model of airway myocyte hyperplasic remodeling
David Ramos Barbon (Barcelona, Spain), Éder Fredy Mateus-Medina, Nadia S. Brienza, Santiago Sánchez-Cabús, Vicente Plaza

Tridimensional microscopy unravels distal architecture of IPF
Youri Bertrand (Woluwe Saint-Pierre, Belgium), Thomas Planté-Bordeneuve, Marylène Lecocq, Caroline Bouzin, Charles Pilette, Antoine Froidure

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 Se Hinks, Rekha Chaudhuri

Development of a Xenopus-based assay for high-throughput evaluation of mucociliary flow
Panayiotis Kouis (Nicosia, Cyprus), Ioanna Antoniades, Andria Koullou, Maria Chatzifrangkeskou, Timothea Konstantinou, Panayiotis K Yiallouros, Paris Skourides

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, Julia Dür, Stephanie Thee, Mehrak Yoosefi, Jobst Röhmel, Marcus A. Mäll

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

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 Laemmle, Karsten Quast, Katrin Fundel-Clemens

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
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

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

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

Highly selective furin inhibition as a therapeutic approach for chronic obstructive pulmonary disease
Lisa Douglas (Belfast, United Kingdom), James A Reihill, Tatjana Odriljcin, S Lorraine Martin

Targeting deubiquitinases for the treatment of COPD
Amy Hendren (Belfast, United Kingdom), James Reihill, Richard Wilkinson, Ian Lobb, Lorraine Martin

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 Ibtiibel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Maalej Sonia

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

Association between preserved ratio impaired spirometry and indices of obstructive sleep apnea (OSA) severity
Izolde Bouloukaki (Heraklion (Crete), Greece), Michail Fanaridis, Georgios Stathakis, Konstantina Lyroni, Stilian Viziriannaki, Georgios Pitsidianakis, Nikolaos Tzanakis, Sophia Schiza

Smoking-induced disturbed sleep: A Distinct Sleep-Related Disorder - experience on 4347 patients
Athanasia Patakia (Thessaloniki, Greece), Ioanna Grigoriou, Paschalia Skalisti, Ioanna Papagiouvanni, Anastasia Michailidou, Konstantinos Charalambidis, Serafeim – Chrysovalantis Kotoula, Konstantinos Porpodis, Dionysios Spyratos

THE FORECAST OF THE COURSE OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH OBSTRUCTIVE-APNEA SYNDROME DURING SLEEP
Khayrillo Rajabov (Tashkent, Uzbekistan), Irina Liverko

THE PHENOTYPES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH COMORBIDITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME.
Khayrillo Rajabov (Tashkent, Uzbekistan), Irina Liverko

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

Epidemiology of obstructive sleep apnea in patients with severe asthma under treatment with biologics
Lorenzo Cirri (Chur, Switzerland), Thomas Rothe, Tsogyal Daniela Latshang

Evaluation of sleep disordered breathing and related factors in primary ciliary dyskinesia patients
Nagehan Emiralioğlu (Ankara, Turkey), Merve Begum Ozturk, Halime Bülükşahin, Ismail Güzélkas, Dilber Ademhan, Beste Oezsezen, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik

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
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

Changes in the sleep-disordered breathing from the acute to the stable phase of pulmonary embolism. The ESAET study
Grace Jacqueline Oscullo Yepez (Valencia, Spain), Alberto García Ortega, Eva Mañas Baena, Thais Beauparthuy Levy, Jose Gomez Olivas, Aldara García Sanchez, Irene Cano Pumarega, Amina Bekki, Marina Ingles Azorin, Juan José Jiménez Aguilèlla, Alba Cerveró Rubio, Pilar Calvillo Batllés, Sergio Monpean Rodriguez, Rosalía Martínez Perez, David Jiménez Castro, Miguel Angel Martinez Garcia

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

Are the anthropometric and arterial blood gas parameters predictors of obesity-hypoventilation syndrome in an apneic population
Mohamed Bougrida (Constantine, Algeria), Fouzia Abdelouahab, Bouchra Benzoud, Mahdi Martani, Mohamed Kheireddine Bourahli

Bicarbonate as predictor of sleep-related hypoventilation
Joël Julien Herzig (Zürich, Switzerland), Sanja Pocrnjcic, Esther Irene Schwarz

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

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

Comparison of physical activity and quality of life between obese individuals with OSAS or OHS
Afroditi Boutou (Thessaloniki, Greece), Antonios Baxtevanidis, Anastasia Chasiotou, Diamantis Chloros, Dimitra Mamaletzi, Evangelia Kouidi

Hypoventilation in patients with Prader-Willi syndrome across the pediatric age
Lauriane Coutier (Bron, France), Catherine Chen, Iulia Ioan, Marine Thieux, Marc Nicolin, Patricia Franco, Laurianne Coutier

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

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 Kumishige, Rafael Alfonso-Cristiancho

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 Priefert, 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, Dalian-Wang Perring, Takashi Iwanaga, Carlos A. Torres-Duque, Desirée Larenas-Linnemann, Bassam Mahboub, 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

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)
Characteristics associated with clinical remission in patients with severe asthma who initiate biologics

Luis Pérez De Llano (Lugo, Spain), Ghislaine Scelo, Trung N Tran, Tham T. Le, Neil Martin, Malin Fagergås, 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-Warrg 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

Asthma medication use in New Zealand following publication of national asthma guidelines

Lee Hatter (Wellington, New Zealand), Allie Eathorne, Pepa Bruce, Tom Hills, Claire Houghton, Mark Weatherall, Richard Beasley

Real world biologic treatment response in severe asthma: an analysis of the International Severe Asthma Registry (ISAR)

Trung Tran (Gaithersburg, United States), Tham T. Le, Ghislaine Scelo, Malin Fagergås, 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, Borja G. Cosio, Piotr Kuna, Diahn-Warrg Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Nikolaos G. Papadopoulos, Riyad Al-Lehebi, João A. Fonseca, Chín 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

Patients' knowledge, perspectives and attitudes towards treatment goals and clinical remission in severe asthma

Shiyuan Zhang (Collegeville, United States), Alejandro Raimondi, Olivia Fulton, Vanessa M Mcdonald, Ratko Djukanovic, Matthew Masoli, Peter Howarth, Waseem Ahmed, Tom Keeley, Josh Barazzetti-Scott, Rafael Alfonso

Long-term weight changes after starting anti-interleukin-5/5Ra biologics in severe asthma

Lianne ten Have (Leeuwarden, Netherlands), Edith Visser, Jacob K. Sont, Kim De Jong, Johannes A. Kroes, Anneke Ten Brinke

Real-world associations between outcomes and biomarkers in severe asthma patients treated with biologics


Efficacy of benralizumab and mepolizumab in treating severe eosinophilic asthma: A one-year study on clinical remission and response

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 Martinez Rivera

Real-world experience of mepolizumab in bronchiectasis concomitant to severe asthma.

Juan Luis García Rivero (Argóños (Cantabria), Spain), David Bañas Conejero

Real-world patient-level cost-effectiveness analysis of omalizumab in patients with severe allergic asthma

Amy Nuttall (Liverpool, United Kingdom), Fred Fyles, Hannah Joplin, Hassan Burhan, Laura Watkins

Real-world patient-level cost-effectiveness analysis of omalizumab in patients with severe allergic asthma

Ipek Kıvılcım Oğuzülgen (Ankara, Turkey), Deniz Tugay, Mehmet Top, Ömür Aydın, Sevim Bavbek, Ebru Damadoğlu, Ferda Öner Erkekol, İlkay Koca Kalkan, A. Fuat Kalyoncu, Gül Karakaya, Haluk Türktaş, Ivo Abraham

Real-life data of ten years with omalizumab treatment

Gökçen Ömeroğlu Şimşek (Izmir, Turkey), Damla Gündüz Karayazı, Can Sevinç

Early response to benralizumab in severe, eosinophilic asthma: a real-world study in Switzerland

Claudio Schuoler (Zur, 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 Pieczyk, Thomas Rothe

Attitudes and experiences of patients and healthcare practitioners towards asthma medication prescription and adherence in the UK

Xiubin Zhang (London, United Kingdom), Erin Tomaszewski, Mina Khezrian, Tim Harrison, Jennifer K Quint

Multicentric real life experience of mepolizumab in bronchiectasis concomitant to severe asthma.

Juan Luis García Rivero (Argoños (Cantabria), Spain), David Bañas Conejero

Clinical remission (CR) in a real-world study to evaluate mepolizumab effectiveness in treating severe eosinophilic asthma (SEA) in Taiwan (REMIT)

Aldo Navarro (Singapore, Singapore), Xiaomeng Xu, Shiyuan Zhang, Diahn-Warrg Perng, Shih-Lung Cheng, Rafael Alfonso, Dominique Milea
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-Contraseras, Emilio Pizzichini, Saeed Noibi

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 Sciocchia, Nunzio Crimi, Girolamo Pelaia, Giovanna Elisiana Carpagno, Claudia Crimi

Real-life oral corticosteroid sparing effects of biologic treatment on eosinophilic asthma, five years of follow-up
Soran 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)

Oscillometry parameters in chronic cough
Hazim Abozid (Wien, Austria), Chiara Veneroni, Sylvia Hartl, Robab Breyer- Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Pasquale Pio Pomplio?, Emil M Glamoutti

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 Dicpinigaitis, Jaclyn Smith, Vivek N. Iyer, Sylvain Lanouette, Ronghua Yang, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli

Chronic cough characteristics in CANVAS
Barnaby Hirons (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

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, Mustafa Wahab, Yoshihisa Tokunaga, Christiane Whetstone, Elena Kum, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Kieran Killian, Jaclyn Smith, Roma Sehmi, Gail Gauvreau, Paul M O'Byrne, Imran Satia

Airway inflammation, bronchial hyperresponsiveness, and anti-asthma therapy responses in cough variant asthma and classic asthma with FEV1%≥80% predicted
Xue Zhang (shanghai, China), Chengjian Lv, Huijuan Hao, Jingwang Lin, Xue Tian, Min Zhang

Refractory and unexplained chronic cough: burden and cost of care
Jacky Smith (Manchester (Greater Manchester), United Kingdom), Norman Stein, Sylvia Migas, Sue Bokowski, Claire Williams, Patricia Baker, John New, Jonathan Schelfhout, Eileen Fonseca, Haya Langerman

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

Blood eosinophils in a cohort of Chronic Cough Patients consecutively admitted to a dedicated outpatient clinic: a retrospective case note analysis
Carlo Barbeta (Ferrara (FE), Italy), Anna Del Colle, Marco Caminati, Rachele Vaia, Gianenrico Senna, Donato Lacedonia, Umberto Zuccon, Rossana Roncato

A novel questionnaire describing sensations and triggers associated with refractory and unexplained chronic cough
James Wingfield Dgby (Manchester (Greater Manchester), United Kingdom), Chelsea Sawyer, Shannon Galgani, Jenny King, Holt Kimberley, Rachel Dockry, Joanne Mitchell, Jacky Smith, Paul Marsden, Janelle Yorke

Patient global impression of severity in chronic cough: repeatability and responsiveness
Katie Rhatigan (Denmark Hill, United Kingdom), Barnaby Hirons, Harini Kesavan, Miten Sudra, Candice Elbethite, Richard Turner, Caroline Jolley, James Hull, Surinder Birring, Peter Cho
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, María Luisa Nieto, Juan Luis Rodríguez-Hermosa, Luis Cea-Calvo, Pilar López-Cotarelo, Marta Sanchez Jareño, Luis Puente-Maestu

The long-term prognosis of chronic cough

Jinkyeong Park (Seoul, Republic of Korea), Yee Hyung Kim, Myung Jae Park, Cheon Woong Choi

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

Chronic cough in sarcoidosis

Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Richard Turner, Caroline Jolley, Katherine Myall, Surinder S Birring, Pete S P Cho

Stress urinary incontinence in women with chronic cough: impact on cough-related quality of life

Luís Puente Maestu (Madrid, Spain), Santiago Quirce, Ignacio Dávila, Ebymar Arismendi, Eva Martínez-Moragón, Javier Solá-Martínez, Alfredo De Diego, Francisco Javier González-Barcala, Luis Cea-Calvo, Cristina Rivas-Pardinas, Marta Sanchez Jareño, Christian Domingo-Ribas

Relationship between subjective cough outcomes and activity impairment in patients with chronic cough

Mustafaah Wahab (Hamilton, Canada), Chaoqun (Cherry) Xu, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Watti, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia

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

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 Watti, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia

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

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

Blood eosinophil count and its determinants in a Chinese population-based cohort

Mei Yang (Chengdu, China), Shijie Tang, Yongchun Shen, Lei Chen, Fuqiang Wen

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 Watti, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau

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 Watti, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau
Association of complement pathway activation with severe eosinophilic asthma in the C-BIOPRED asthma cohort
QingLing Zhang (Guangzhou, China), Cong Dong, Zhen An Deng, Wei Jiang, Ali Versi, Kian Fan Chung, Qing Ling Zhang, Nan Shan Zhong

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, Halesadat Nekoeoe, Christophe Poulet, Noémie Briemont, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Florence Schleich

Expression of serum periostin and impaired quality of life in asthma patients with and without allergic rhinosinusitis
Somruetai Matupumanon (Bangkok, Thailand), Theerasak Kawamatawong, Putthapoom Lumjiaktase

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

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, Jiaxing Xie

Possible multiple signalling of MMP-10 in atopic asthma
Nikolaos Tsolakis (Uppsala, Sweden), Andrei Malinovschi, Jörgen Syk, Kjell Alving

Investigating allergen-induced acute lung inflammation in asthmatic individuals using breath biopsies
Agneszka 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, Atasha Gonsalves, Natalie Tett, Ben Taylor, Rune Kragsberger, Rory Stallard, Howard Kartstein, Daniel Mead, Lara Pocock, Billy Boyle, Max Allsworth, Gail Gauvreau

Effects of Sex Hormones on Asthma Control in Postmenopause
Samia Aissani (Algiers, Algeria), Houria Haouichat, Ali Zitouni

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

Developing and validating clinical models to identify candidates for allergic rhinitis pre-exposure prophylaxis
Wenting Luo (Guangzhou (Guangdong), China)

Associations between sputum cell counts and healthcare use across Ontario patients with asthma or COPD
Kimball Zhang (Toronto, Canada), Teresa To, Sylvia Laucks, Melanie Kjarsgaard, Jingqin Zhu, Emilie Terebessy, Parameswaran Nair

Type 2 inflammation signature using sputum transcriptomics is associated with COPD clinical characteristics
Yuqiong Yang (Guangzhou, China), Junhao Yang, Fengyan Wang, Weijuan Shi, Martin Stampfl, Jeffrey Curtis, Bradley Drummond, Nanshan Zhong, Zhang Wang, Zhenyu Liang, Rongchang Chen

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

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 Bjerner, Ellen Tufvesson

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)

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**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 Karmann, John Holloway, Hasan Arshad, Yu Jiang

**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 (Esppergerde, 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, Jinhoan 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 Çolak

**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 Pajar-Castro, German Otero-Marrugo, Federico Prada, Rodrigo Villegas, Vanessa Garcia-Larsen

**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, Yajiaoxin Chen, Xiaochen Liu, Wanzhen Yang, 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, Ilaria Stanisci, Sandra Baldacci, Patrizia Silvi, Laura Carrozzi, Giovanni Vegi

**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, Lilia Todoriko, Olena Pidverbetska, Inga Yeremenchuk, Yana Toderika, Olga Shevchenko

**PA1964**
**Current etiologies of hemoptysis in a tuberculosis-endemic country.**
Asma Zargouni (Ariana, Tunisia), Mjed Meriem, Khadija Euchi, Moula 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 |
|--------|--------------------------------------------------------------------------|
| 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 |

17:30-19:00
INDUSTRY EVENING SYMPOSIUM

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
### Amber 1+2  
**Session 217 08:00 - 10:20**

#### Skills workshop: SW4 - Interpretation of cardiopulmonary exercise tests

**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)

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<tr>
<th>Time</th>
<th>Speaker(s)</th>
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</table>
| 08:00 | **Introduction**  
All Speakers                                                               |                |
| 08:00 | **Relationship between oxygen uptake and work rate**  
Paolo Palange (Rome, Italy)                                             |                |
| 08:00 | **Anaerobic/lactate threshold**  
William Stringer (Long Beach, United States)                           |                |
| 08:00 | **Ventilatory efficiency**  
J. Alberto Neder (Kingston (ON), Canada)                                 |                |
| 08:00 | **Breathing pattern and dynamic hyperinflation**  
Michele Schaeffer (Leuven, Belgium)                                      |                |

### 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)

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<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Location</th>
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</table>
| 08:00 | **Introduction**  
All Speakers                                                               |                |
| 08:00 | **Performing spirometry**  
Aisling McGowan (Dublin 15, Ireland)                                       |                |
| 08:00 | **Standardised static lung volume measurement using whole-body plethysmography**  
Frans H.C. De Jongh (Enschede, Netherlands) |                |
| 08:00 | **Measurement of airway resistance and resistance-volume loops using whole-body pethysmography**  
Mart N. van der Plas (Monster, Netherlands) |                |
| 08:00 | **Reporting and interpretation of case studies**  
Maximillian Thomas (Birmingham, United Kingdom)                            |                |
### Session 219: Clinical problems in tuberculosis and other respiratory infections

**Poster session**

**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)

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<tr>
<th>PA2043</th>
<th>Predictors of pulmonary tuberculosis relapse</th>
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<tr>
<td></td>
<td>Selsabil Daboussi (Tunis, Tunisia), Améni Naaroura, Samira Mhamdi, Safa Marzouki, Houda Snoussi, Chiraz Aichouia, Zied Moetemri</td>
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<tr>
<th>PA2044</th>
<th>Pseudotumor tuberculosis: a rare form</th>
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<tr>
<td></td>
<td>Sofia El hanafy (casablanca, Morocco)</td>
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<tr>
<th>PA2045</th>
<th>Errors in the diagnosis of tuberculosis in children under the conditions of the COVID-19 pandemic.</th>
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<td></td>
<td>Igor Ivanes (Chisinau, Republic of Moldova), Cristina Liscinscaia, Stela Kulcițkaia, Constantin Iavorschi, Iulia Ghimisli</td>
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<tr>
<th>PA2046</th>
<th>Mortality of tuberculosis patients due to associated diseases and other causes</th>
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<tr>
<td></td>
<td>Igor Ivanes (Chisinau, Republic of Moldova), Aurelia Ustian, Vasile Popa, Anastasia Ivanes</td>
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<th>PA2047</th>
<th>Mortality in tuberculosis</th>
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<td>Fettal Nadia (Sidi Bel Abbes, Algeria), akram Benhaddad</td>
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<tr>
<th>PA2048</th>
<th>Correlation between imaging in non-cystic fibrosis bronchiectasis and prognosis scores</th>
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<td></td>
<td>Houda Rouis (Ariana, Tunisia), Donia Jeridi, Chirine Moussa, Chaima Turki, Oumaima Aggouni, Hana Dhifallah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej</td>
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<tr>
<th>PA2049</th>
<th>COPD as a post-tuberculosis lung disease: multicenter retrospective cohort study</th>
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<tr>
<td></td>
<td>YEJIN LEE (SEOUL, Republic of Korea), Dong-Hyun Joo, Soom Sin, Hyerin Kang, Jin Hwa Song</td>
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<th>PA2051</th>
<th>Impact of tuberculosis on the evolution of pregnancy, delivery and perinatal outcomes</th>
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<td>Igor Ivanes (Chisinau, Republic of Moldova), Ecaterina Evstrati, Stela Kulcițkaia, Anastasia Ivanes</td>
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<th>PA2052</th>
<th>Post-COVID-19 pulmonary complications in the chest clinic of Oran, Algeria</th>
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<td>Abdelmajid Snouber (Oran, Algeria), Siham Benzait, Nesrine Azzi, Nesrine Bouchra Bourouis, Mustapha Benammar, Karima Boualem</td>
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<th>PA2053</th>
<th>Radiological pulmonary manifestations in patients with achalasia</th>
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<td>Jelena Jankovic (Beograd, Republic of Serbia), Branislava Milenkovic, Zlatan Bojic, Nikola Colic</td>
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<th>PA2054</th>
<th>Retrospective observational study looking at inpatient burden of winter respiratory viral illness in a district general respiratory unit</th>
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<td></td>
<td>Usman Zafar Kahara (Birmingham, United Kingdom), Gagandeep Aulakh, Abhimanyu Lal, See Ling Tan</td>
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<th>PA2055</th>
<th>In-hospital mortality by different CURB type severity scores of community-acquired pneumonia</th>
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<tr>
<td></td>
<td>Hyonsoo Joo (Seoul, Republic of Korea), Mira Cho, Seohyun Kim, Yunhee Lee, Jun-Pyo Myong, Jae Jeong Shim, Tai Joon An, Hyong Kyu Yoon</td>
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<th>PA2056</th>
<th>Prevalence of newly acquired conditions and impact on quality of life one year after hospital discharge for COVID-19</th>
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<td></td>
<td>Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Wolloff, Archie Walters, Louise Wain, Chris Brightling, Michael Marks, Andrew Briggs</td>
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<th>PA2057</th>
<th>Phenotypes in ‘Long COVID’ presenting as ‘tsunami of multisystem syndrome’ of this decade: Is it really preventable or occurs as natural course of disease?</th>
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<td></td>
<td>Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Gajanan Gondhali, Rajesh Patil, Utseshrav Dhumal, Abhijit Acharaya, Shubhangi Khule, Deepak Patil</td>
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<th>PA2058</th>
<th>Efferent therapy in complex treatment of patients with coronavirus associated pneumonia</th>
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<tr>
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<td>Oksana Vilsaniuk (Vinnytsya, Ukraine), Yuriy Mostovoy</td>
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<tr>
<th>PA2059</th>
<th>90-Day outcomes in patients with severe COVID-19 treated with invasive mechanical ventilation.</th>
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<td>Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Satoshi Tanaka, Yusuke Shinozaki, Junko Shibuya, Hajime Tsruouka, Shin Matsuzawa, Hiromi Muraoaka, Atsuko Ishida, Hirotaka Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine</td>
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<th>PA2060</th>
<th>COVID-19 as endothelial dysfunction trigger</th>
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<td></td>
<td>Nataliia Habshydze (Dnipro, Ukraine), Tetiana Pertseva, Lyudmyla Konopkina, Yuliia Hyba, Mariia Krykhtina</td>
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<td>PS-10</td>
<td>Theranostic algorithm to prevent post-COVID-19 pulmonary fibrosis</td>
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**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)

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<tr>
<th>Poster</th>
<th>Title</th>
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<tr>
<td>PA2061</td>
<td>Characteristics of patients with asthma in China by blood eosinophil level</td>
<td>Victoria S. Benson (Uxbridge, United Kingdom), Ark Ye, Zhiliu Tang, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards</td>
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<tr>
<td>PA2062</td>
<td>World-wide variation in the proportion of patients eligible for asthma biologics: a systematic review</td>
<td>Freda Yang (London, United Kingdom), Justin D Salciccioli, Marcus Mcclean, Chloe Bloom</td>
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<td>PA2063</td>
<td>Uncontrolled asthma associates age-dependently with biomarkers and comorbidities in adult-onset asthma</td>
<td>Katja Warm (Kalmar, Sweden), Linnea Hedman, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Helena Backman</td>
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<td>PA2064</td>
<td>Risk for asthma and allergic rhinitis depends on earliness and multiplicity of allergic sensitization, involved allergens, and allergen-specific IgE levels</td>
<td>Stephan Gabet (Lille, France), Fanny Rancière, Nathalie Seta, Isabelle Monas</td>
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<td>PA2065</td>
<td>Association between asthma and allergic diseases and school absenteeism among Indian adolescents</td>
<td>Smriti Debnath (Khejurbagan, India), Prasun Haldar, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra</td>
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<td>PA2066</td>
<td>Association between allergy and asthma experience and awareness among adolescents: a structural equation modelling approach</td>
<td>Prasun Haldar (Kolkata, India), Smriti Debnath, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra</td>
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<td>PA2067</td>
<td>In-hospital Mortality and Hospital outcomes Among Adults Hospitalized for Exacerbations of Asthma and COPD in Thailand (2017-2021): A population-based Stud</td>
<td>Narongwit Nakwan (Songkhla, Thailand), Kanittha Suansan</td>
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<td>PA2068</td>
<td>Causal risk factors for asthma in Mendelian randomization studies: A systematic review and meta-analysis</td>
<td>Heidi Mikkelsen (Køge, Denmark), Eskild M. Landt, Marianne Benn, Børge G. Nordestgaard, Morten Dahl</td>
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<td>PA2069</td>
<td>Hospital admissions among asthmatic children in Tizi-Ouzou city before and during the COVID-19 pandemic</td>
<td>Salim Sadi (Tizi-Ouzou, Algeria), Idir Ramdani, Dihia Hadj-Said, Toufik Djerboua, Nabila Yata, Nadia Bensaadi, Belaid Bouazza</td>
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<td>PA2070</td>
<td>Role of circadian typology in health-related quality of life in asthma</td>
<td>Subhabrata Moitra (Edmonton, Canada), Prasun Haldar, Augustus Anderson, Metin Akgün, Amanda Brickstock, Allison Eathorne, Ali Farshchi Tabrizi, Linda Henderson, Aditya Jindal, Surinder Jindal, Bugra Kergel, Lyle Melenka, Saibal Moitra, Rahul Mukherjee, Nicola Murgia, Alex Semprini, Alice Turner, Paige Lacy, Ana Adam</td>
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<td>PA2071</td>
<td>Obesity increases all-cause and cardiovascular mortality in adults with asthma</td>
<td>Helena Backman (Lulea, Sweden), Axel Sturesson, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Linnea Hedman</td>
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<td>PA2072</td>
<td>Asthma and asthma-like symptoms as associated with endometriosis and menstrual pain</td>
<td>Sanjay Gyawali (Bergen, Norway), Marianne Lønnebotn, Ane Johannessen, Eva Lindberg, Lars Modig, Vivi Schlüsens, Thorarinn Gislason, Cecile Svanes, Francisco Gómez Real</td>
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<td>PA2073</td>
<td>Global, regional, and national trends in incidence of asthma: findings from the Global Burden of Disease Study 2019</td>
<td>Yuhan Xing (Hong Kong, Hong Kong), Yingzhao Jin, Cui Guo, Lai Shan Tam, Dongze Wu</td>
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<td>PA2074</td>
<td>Agreement between self-reported and registered age at asthma diagnosis</td>
<td>Elias Nurmi (Tampere, Finland), Iida Väähäto, Pinja Ilmarinen, Heidi Andersén, Leena Tuomisto, Anssi Sovijärvi, Helena Backman, Lauri Lehtimäki, Linnea Hedman, Arnulf Langhammer, Bright Nwaru, Päivi Piirilä, Hannu Kankaanranta</td>
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<td>PA2075</td>
<td>Respiratory tract infections associated with asthma exacerbation</td>
<td>Yong Il Hwang (Anyang, Republic of Korea), Ki-Suck Jung, Seung Hun Jang, Kwang Ha Yoo, Jung Hyun Chang</td>
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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*

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

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 Berhaho, Mounia Serraj, Mohammed Chakib Benjelloun, Bouchra Aamara, Samira El Fakir

Mendelian randomization revealed the impact of GERD on asthma risk
Haoyu Wang (Chengdu, China), Ruiyuan Yang, Dan Liu, Weimin Li

Poster session: Development and treatment of severe asthma

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

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

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 Golshski, Frederique Vermeulen, Suzanne Terheggen-Lagro, Bart Van Ewijk, Anke-Hilse Maitland-Van Der Zee, Susanne Vijverberg

Association between airflow 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 Bloeise, Antonella Fassanito, Domenico Paolo La Regina, Elio Iovine, Margherita Di Jorgi, Enea Bonci, Raffaella Nenna, Fabio Midulla

Asthma exacerbations in severe asthmatic children: Association with clinical scores, FeNO and lung function.
Maria Belen Lucero (CABA, Argentina), Gabriela Peláez, Verónica Aguerre, Juan Manuel Figueroa, Verónica Giubergia

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

Ezrin: potential biomarker of airway epithelial repair and wheeze morbidity in children
Thomas Josifidis (Perth (WA), Australia), Ingrid Laing, Andre Schultz, Joseph Ho, Alphans Gwatimba, Siew-Kim Khoo, Sherlynn Ang, Peter Le Souef, Yuliya Karpievitch, Anthony Kicic, Stephen Stick

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, Snejina Mihailova, Venelin Alexiev

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

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
A retrospective multi-center chart review study on the timely administration of systemic corticosteroids in children with moderate-to-severe asthma exacerbations


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

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

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

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, Ammar Jamel

Adherence to inhaled steroids in children on asthma biologies; 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

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

Portable oscillometry in preschool children attending the Emergency Department with wheezing

Senali Y Seneviratne (Leicester, United Kingdom), Saxon Law-Gleen, Damian Roland, Erol Gaillard

Detecting pediatric breathing: How do CPAP/NIV devices work?

Emeline Fresnel (Bois-Guillaume, France), Meryl Vedrenne-Cloquet, Marius Lebret, Lucie Griffon, Brigitte Fauroux, Sonia Khirani

Can ventilator's built-in software predict hypercapnia or desaturation in children on chronic non-invasive ventilation? A retrospective study

Jolien Paulussen (Molenbeek-Watersbeek, Belgium), Xante Mentens, Janne Vanhees, Sophie Installé, Anse Van Ostaeyen, Kris Ides, Nathalie Jouret, Kim Van Hoorenbeek, Stijn Verhulst

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, Mollia Imaduddin Ahmed

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

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)

Detecting pediatric breathing: How do CPAP/NIV devices work?

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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 Yilmaz Yetgi, Muriyvet Yanaz, Aygun Gulieva, Merve Selcuk, Sedy Karabalut, Neval Metin Çakar, Pnar Ergenekon, Ela Erdem Eralité, Gulten Öztürk, Olcay Unver, Dilşad Türkdoğan, Fazilet Karakoç, Bulent Karadag

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, Magnus 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 Descaço, Ângela Martins, Teresa Bandeira

PA2114 Criteria For Bronchodilator Responsiveness Testing In Children. The Most Adequate Is...
Carolina Arez Constant (Lisboa, Portugal), Andreia Descaço, Angela 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 Duc, 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 Lönndahl (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

PS-13 in poster area  Session 223  08:00 - 09:30
Poster session: Respiratory monitoring and management in neonatal and paediatric intensive care
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, 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), Énrico Conca, Davide Bizzotto, Alberto Tosi, Kenneth Lutsch, Raffaele Dellaca

PA2125 Lung function response to postnatal corticosteroids in very preterm infants
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Sofia Chiarioluce, Maria Luisa Ventura

PA2126 Reduced lung function during childhood after fetal growth restriction in discordant identical twins
Jip Anne Spéckman (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
Céline Delestrain (Creteil, France), Kenza Tahiri, Floriane Sauvage, Kamel Halitim, Xavier Derrn, Housam El Jurd, Camille Jung, Isabelle Hau, Manon Tauzin, Fabrice Decobert, Christophe Delacourt, Ralph Épaul, 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


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, Marta Santos, Bárbara Olmeda Lozano, Jesús Pérez-Gil, Manuel Sánchez-Luna

PA2132 Circulatory adaptation to dexamethasone for severe lung disease in extremely preterm infants: An echocardiograpic study
Arvind Sehgal (Melbourne (VIC), Australia), Marcel Nold, Calum Roberts, Samuel Menahem

Anna Lavizzari (Milano (MI), Italy), Alessia Mariani, Elisabetta Ghezzi, Nicola Pesenti, Marijke Ophorst, Silvana Gangi, Mariarosa Colnaghi, Fabio Mosca

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 Kaltsgianni, 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 Villarroel Silva (Santiago, Chile), Yorschua Jalil-Contreras, Eduardo Moya-Gallardo, Ignacio Oyarzun Aguirre, Gonzalo Moscoso Altamira, Claudia Astudillo M, L. Felipe Daniami
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, Beatris Bartelds, Laurens P. Koopman, Irwin K.M. Reiss

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

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

Developing a Priority Setting Partnership for preterm lung health (on behalf of PELICAN CRC)
Shannon Simpson (Perth (WA), Australia), Naomi Hemy, Amber Bates, Belinda Frank, Anne Mc Kenzie

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

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 Megarry, Zailong Wang, Jessica Morlando Geiger

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

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

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

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 Esposti, Giovanna Pisi

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 Grameniga, Sofia Misuraca, Gianfranco Alicantro, Francesca Lucca, Mariangela Retucci, Francesco Amati, Sonia Volpi, Stefano Aliberti, Marco Cipolli, Francesco Blasi

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 Marris-Espin, Benoit Douvry, Thomas Flament, Magali Dupuy-Grasset, Julia Ballouhey, Damien Basille, Baptiste Arnoult, André Gillibert, Héléne Morisse-Pradier, Gilles Mangiapane, Elise Artaud-Macari
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 Kotelias, Sirmo Stiliani Kirvasili, Marija Hadji-Mitrova, Eleni Papadaki, Elisavet-Anna Chrysochoou, Elpis Hatzigiorou

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

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

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

Lower levels of bacterial aerobic respiration in sputum from people with cystic fibrosis with chronic lung infection Mette Kolpen (København, Denmark), Peter Østrup Jensen, Permilie Olsen, Arnold Matovu Dungu, Birgitte Lindegaard, Frederik Boëtius Herz, Thomas Bjarnsholt, Daniel Faehralt-Jepsen

Clinical follow up after SARS-COV2 infection in Cystic Fibrosis patients Ana Gomez Ortiz (Seville, Spain), Laura Carrasco Hernández, Lucas Román Rodriguez, Esther Quintana Gallego

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. Ağağloğlu (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

Sweat Chloride Concentration as a Surrogate Marker of CFTR Modulator Therapy Response Amélia Simas Ribeiro (Lisboa (Lisboa), Portugal), Pilar Azevedo, Carlos Lopes, Patricia Veloso

Forced oscillation technique for monitoring the respiratory status of adult cystic fibrosis patients Anamarija Stajduhar (Zagreb, Croatia), Martina Batariro Hadar, Ivona Markelić, Matea Škoro, Ivan Bambir, Duška Tješić-Drinković, Andrea Vukić-Dugac

Cystic Fibrosis and Fit-to-Fly (CYFF Study) Aina Akero (Oslo, Norway), Elisabeth Edvardsen, Pål Finstad, Bjorn Skrede, Mia Østerhaug, Sofia Backman, Anne Edvardsen, Ole Henning Skjønsberg

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 Messore

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

Non tuberculous mycobacterial pulmonary disease: a single center experience analysis Nicola Baio (Pavia, Italy), Simone Montini, Francesco Rocchi Bertuccio, Lucrezia Pisano, Valentina Ferroni, Vittorio Chino, Vincenzo Sanci, Paolo Cossetta Reposi, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico

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
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

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

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

Our experience in the treatment of nontuberculous mycobacteria
Andrea Exposito Marrero (San Cristobal A La Laguna, Spain), Jesús Rodríguez González, Carmen Palacios Clar, Nuria Castejon Pina, Adrian Baeeza Ruiz, Jose Luis Trujillo Castillo

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 Papavasieiu, Gernot Rohde, Nicolas Veziris, Dirk Wagner, Jakko Van Ingen

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

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 Haaperta, Emmanuel André

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 Gramigna, Fabio Saliu, Francesca Giannese, Francesco Blasi, Daniela Maria Cirillo

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

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 Kampilis, Apostolos Papavasileiou

Clinical characteristics of non-tuberculous mycobacterial pulmonary disease patients according to respiratory microorganisms
BEOMSU SHIN (Wonju, Republic of Korea), Seong Mi Moon

Physical activity and possible sarcopenia in patients with nontuberculous mycobacterial pulmonary disease
Young Ae Kang (Seoul, Republic of Korea), Eun Ki Chung, Youngmok Park, Dong-Hyuk Park, Justin Y. Jeon

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 Gabrovskva, Eva Van Braeckel, Steven Callens, Maya Hites, Bénédicte Delacre, Sophie Goby, Pascal Van Bleyenbergh, Leen Rigouts, Julie De Man, Laurens Ceulemans, Emmanuel André

Association between physical activity and cough and sputum symptoms in patients with nontuberculous mycobacteria pulmonary disease
Kazuki Ono (Tokyo, Japan), Mitsuji Tabusadani, Hideaki Senjyu, Ryo Kozu

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

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
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 Lokke

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

Impact of smoking in acute community acquired lung disease: severity and mortality
Houda Rouis (Ariana, Tunisia), SABRINE ELFIDHA, Hadhemi Rejeb, Hanen Smadhi, Hajer Abdelghaffar, Hella Hassene, Dorra Greb, Ines Akrou, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche

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

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. Kuytmans, Hessel Peters-Sengers, Tom Van Der Poll

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

Cancer-related mutations in non-tumoral respiratory epithelium: long-term prognosis.
Roberto Chalela Rengifo (Barcelona, Spain), Emanuel Carmona, Albert Sánchez-Font, Victor Curull, Pedro Rocha, Diana Badenes, Raquel Longaron, Joaquin Gea, Ignacio Sanchez-Guerri, Beatriz Bellosillo

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

Late Breaking Abstract - Factors affecting recurrence in early stage lung adenocarcinoma
Fatma Canbay (Nicosia, Cyprus), Ayperi Merzi Öztürk, Sema Canbakan, Funda Demirag, Hakan Ertürk

IL-17A promotes tumorigenesis and upregulate PD-L1 expression in Non-small cell lung cancer
Hua Liao (Guangzhou, China), Hangming Dong

Crosstalk between Metformin and angiogenesis in lung cancer model
Jiu-Ngong Wang (Taiuchung, Taiwan), Chuan-Mu Chen

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 Zemaits

Sphingolipid metabolism in the pathogenesis of advanced non-small cell lung cancer
Lilla Bud (Budapest, Hungary), Daniel Hammer, Rita Varga, Veronika Muller, Adam Domonkos Tarnoki, Davide Laszlo Tarnoki, Martina Meszaros, Andras Bikov, Peter Horvath

Association of DNA repair gene O6-Methylguanine-DNA Methyltransferase (MGMT) expression with aberrant promoter methylation in Lung Cancer Progression
Supriya Karpthak (Lucknow, India), Rajiv Garg, Mohammad Kaleem Ahmad, Anand Srivastava, Neelam Misra, Anurag Kumar Srivastav

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 Ehrhalt, Klaus Hackner

Understanding BRAF mutation in non-small cell lung cancer patients
Giulia Squarzon (Italy, Italy), Mariaenrica Time, Davide Ortolan, Federica Pezzuto, Fiorella Calabrese
**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

**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 Ayaseven, Marco Idzko, Mir Alireza Hoda, Daniela Gompelmann

**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

**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

**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, Maria Torres Durán, Carlos Vilariño Pombo, Raquel Dacal Quintas, Isaura Parente Lamelas, Raquel Barbosa Lorenzo, Alberto Fernandez Villar

**COPD patients with NSCLC respond better to immune checkpoints inhibitors**
Augustin Boudoussier (Bordeaux, France), Iban Larrouture, Pauline Henrot, Remi Veillon, Claire Bardel, Camille Chautemps, Pierre Schilfarth, Maeva Zysman

**Machine Learning Predicts metastasis of cT1 solid lung cancer**
Li Yang (, China), Jing Huang, Jie Lan, Weiyi Li, Junhao Mu, Min Ao, Longke Ran
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-α concentration related endotype of sarcoidosis- A Polish real-life retrospective observational study
Anna Goljan Geremek (Warszawa, Poland), Piotr Radzinski, Elzbieta Puscniska, Urszula Demkow

PA2228  Change in bone mineral density in Danish patients with sarcoidosis
Janne Møller (Skanderborg, Denmark), Lars Rejmark, 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 Mcquater, 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-Benítez, Ana Belén Gámiz-Molina, Miguel Hernández-Serrano, Carmen Lidia Félix-Segura, Maria Granados-Santiago, Marie Carmen Valenza
PA2240 Prognostic value of Shock Index in patients with hemodynamic unstable pulmonary embolism
Ivana Vujovic (Novi Sad, Republic of Serbia), Dušanka Obradović, Stanislava Sovilj Gmizić, Maja Banjac, Nemanja Kuštrimović

PA2241 Protective effect of early anticoagulation for renal function in normotensive pulmonary embolism patients with right ventricular dysfunction
Dingyi Wang (Beijing, China), Guohui Fan, Xiaomao Xu, Qin Luo, Jun Wan, Peiran Yang, Zhenguozhai

PA2242 Prognostic Impact of Acute Kidney Injury Compared with Estimated Glomerular Filtration in Patients with Acute Pulmonary Embolism: Analysis from a Large Nationwide Registry
Dingyi Wang (Beijing, China), Yishan Li, Guohui Fan, Zhenguo Zhai, Chen Wang

PA2243 MicroRNAs expression before and after exercise in patients with persistent lung perfusion defects after pulmonary embolism
Remedios Otero Candelera (Sevilla, Spain), Berenice Brown Arreola, David Hervás Marin, Noelia Sola Idigora, 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 Cardiopulmonary exercise test to identify pulmonary arterial hypertension in patients with symptoms after acute pulmonary thromboembolism
Jose Belda Ramírez (Valencia, Spain), Maria Luisa Nieto Cabrera, Paula Pla Rodríguez

PA2245 Competing risks analysis of recurrent venous thromboembolism (VTE) and bleeding on anticoagulation in patients with cancer-associated VTE
Francis Couturaud (Brest, France), David Simon, Raphael Le Mao, Leela Raj, Benjamin Espinasse, Claire De Moreuil, Cécile Tromeur, Marie Guégan, Elise Poullhazan, Emmanuelle Le Moigne, Karine Lacut, Christophe Leroyer, Isabelle Mahé, Emmanuel Nowak

PA2246 Circulating, extracellular vesicle-associated tissue factor in cancer patients with and without venous thromboembolism
Valentina Lami (Pisa, Italy), Roberta Pancani, Andrea Sbrana, Tommaso Neri, Chiara Boccaccio, Alessandro Cipriano, Mario Gattini, Alessandro Celi, Dario Nieri

PA2247 Risk factors for hospital outcomes in pulmonary embolism: a retrospective cohort study.
Giorgia Lüthi-Corridori (Liestal, Switzerland), Maria Boesing, Cedrine Kueng, Stéphanie Giezendanner, Munachimso Kizito Mbata, Anne Barbara Leuppi-Taegtmeier, Philipp Schuetz, Joerg Daniel Leuppi

PA2248 Particularities of Pulmonary embolism in young adults
Manel khedhri (beja, Tunisia), Hafsa Zaibi, Khouloud Chaabi, Emna Ben Jemia, Ella Nemsi, Jihen Ben Amar, Hichem Aouina

PA2249 Sex differences in venous thromboembolism risk and outcomes after COVID-19: a population-based retrospective cohort study
Jason Weatherald (Edmonton, Canada), Grace Y. Lam, Michael K. Stickland, Chuan Wen, Ron W. Damant, Maeve P. Smith, Lesley J. Soril, Zuying Zhang, Adam G. D'Souza, Elissa Rennert-May, Jenine Leal

PA2250 Covid-19 infection and chronic thromboembolic pulmonary disease: screening role of transthoracic echocardiography 2 years after hospitalization for interstitial pneumonia
Giuseppe Piaciocco (Monza (MI), Italy), Maria Tundo, Andrea Lombi, Chiara Milano, Martina Messa, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Giulia Pittalis, Fabrizio Luppi, Paola Faverio

PA2251 Cardiopulmonary complications after pulmonary thrombosis (PT) in COVID-19.
Joaquin Maria Martinez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suárez Castillejo, Nuria Toledo Pons, Francisco De Borja García-Cosio Piqueras, Luisa Ramon Clar, Belén Nuñez Sánchez, Néstor Calvo Rado, Luminita Noje Noje, Jaume Pons Llinares, Antonieta Bellerstos Vizoso, Paula Argente Del Castillo Rodriguez, Daniel Morell Garcia, Luisa Martin Pena, Juan A Palmer Sancho, Jaume Sauleda, Ernest Sala

PA2252 Pulmonary thrombosis (PT) in patients with covid-19 pneumonia: is it pulmonary thromboembolism or thrombosis in situ?
Carla Suarez Castillejo (Palma de Mallorca, Spain), Nestor Calvo, Aina Millan, Nuria Toledo, Amanda Iglesias, Joaquin Maria Martinez, Luminida Pareda, Luisa Ramon, Daniele Morell, Josep Miquel Bauça, Belen Nuñez, Jaume Sauleda, Ernest Sala-Llinás, Albert Alonso

PA2253 Is acute pulmonary embolism a predictor of Post COVID-19 syndrome?
Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hajer Racil, Mariem Chaabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chauoch

PA2254 Diagnostic Performance of Clinical Probability Scores for Pulmonary Embolism in COVID
Khouloud Chaabi (Tunis, Tunisia), Haifa Zaibi, Hend Ouertani, Safia Othmani, Emna Ben Jemia, Jihen Ben Amar, Hana Hedhi, Hichem Aouina
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)

PA2255 Tobacco-associated lung microangiopathy in symptomatic smokers without chronic obstructive pulmonary disease: A randomized, double-blinded and controlled clinical trial with Sildenafil.
Paulo Müller (Campinas Grande (MS), Brazil), Tiago Augusto, Gisele Barbosa, Ricardo Gass, Danilo Berton, Leandro Goelzer

PA2256 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

PA2257 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 Bourahil, Naouel Cheikhrouhou, Sana Cheikhrouhou, Yassine Ouahchi, Sonia Toujani, Mariem Mjid, Besma Dhahtri

PA2258 Amount of physical activity and pulmonary rehabilitation in patients with COPD
Yu Liu (shanghai, China), Kai Zhang, Huaqi Guo, Cuixia Zheng

PA2259 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, Madhusha Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

PA2260 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

PA2261 Postural balance assessment in fallers individuals with COPD before and after physical effort
Caroline Mascio de Ceno (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaela Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho

PA2262 Mortality in COPD Patients – Long-term Follow-up and Outcomes
Roman Kalinov (Plovdiv, Bulgaria), Blagoi Marinov, Georgi Belev, Spas Kitov, Vladimir Hodzhev, Stefan Kostianev

PA2263 Association of testosterone with lung function in patients with chronic obstructive lung disease
Abir Hedhli Ep Cherni (tunis, Tunisia), NoureIlha Khézami, Azza Slim, Hajtaeib Sonia, Khadija Echi, Sana Cheikhrouhou, Yassine Ouachchi, Sonia Toujani, Mariem Mjid, Besma Dhahtri

PA2264 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

PA2265 The impact of overweight on the quality of life of patients with COPD GOLD III
Nadiaia Korch (Ivano-Frankivsk, Ukraine), Mykola Ostrovsky, Galyna Korch, Oleksandr Varunkiv, Iryna Savelikha, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Iryna Makoida, Olga Melnyk-Shereneta

PA2266 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

PA2267 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 Chynkamias, Sara C. Buttery, Sofie Breuls, Sarah Koch, Elena Gimeno-Santos, Heleen Demeyer, Nick S. Hopkinson, Ioannis Vogiatzis, Thierry Troosters, Anja Frei, Judith Garcia-Aymerich
**Respiratory morbidity and exacerbations in patients with COPD diagnosed with the fixed ratio and the lower limit of normal**
Ashlı Görek Dilektaşlı (Bursa, Turkey), Busra Yigitliler, Nilüfer Ozturk, Funda Coskun, Esra Uzaslan, Mehmet Karadag

**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

**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

**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

**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

**Emphysema Severity Index (ESI): a novel spirometry-derived parameter in patients with COPD**
Luca Paia (Firenze, Italy), Letizia Dal Bosco, Greta Insalata, Matteo Paoletti, Mariaelena Occhipinti, Gianna Camiciottoli, Massimo Pistolesi, Federico Lavorini

**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

**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 Voskrebzenz, Robin A Mueller, Karen M Olsson, Frank Wacker, Marius M Hoepfer, Jens Vogel-Claussen

**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

**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 Ehnmig, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Oh Shin

**PCD-AID: artificial intelligence diagnosis of primary ciliary dyskinesia**
Mathieu Bottier (London, United Kingdom), Andrea Lucia Do Nascimento Pinto, Britt J Van Akker, Oliver Hamilton, Ioannis Katramados, Amelia ShoeMark, Claire Hogg, Thomas Burgoyne

**Increased volume of pulmonary veins on CT associates independently with higher mortality in smokers with and without COPD**

**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
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<td>The comparison of quantitative CT features of COPD and pre-COPD: results from a real-life study</td>
<td>Selin Ercan (Gothenburg, Sweden), Aylin Ozgen Alpaydin, Ali Canturk, Emre Ruhat Avcı, Salihah Selin Ozuygur Ermis, Gozde Tokalli, Gökçen Ömeroğlu Simsek, Pinar Balci, Naciye Sinem Gezer</td>
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<td>PA2283</td>
<td>Multisite implementation of 129Xe-MRI assessment of COPD disease progression: XeCITE early results</td>
<td>Alexandre Coimbra (South San Francisco, United States), Laura C. Bell, Yixuan Zou, Colin Dimond, Jaime Mata, John Muglar, Yun Michael Shim, David Mummy, Bastiaan Diehuyys, 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 Thornmen, Talissa Altes, Paula Belloni</td>
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<td>PA2284</td>
<td>CT-quantified pulmonary artery volume associates independently with higher mortality in smokers with and without COPD</td>
<td>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</td>
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<td>PA2285</td>
<td>Quantitative computed tomography assessment of pulmonary structure in cannabis smokers</td>
<td>Sukhraj Virdee (Georgetown, Canada), James Hogg, Jean Boudreau, Wan Tan, Miranda Kirby</td>
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<td>PA2286</td>
<td>Can tracheobronchial tree and luminal descriptors be used as objective imaging biomarkers in COPD?</td>
<td>Rodrigo Nava (Cambridge, United Kingdom), François-Xavier Blé, Cosma Mirella Spalluto, Karl Staples, Tom Wilkinson, Kristoffer Ostridge</td>
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<td>PA2287</td>
<td>Computational fluid dynamics analysis of computed tomography images in asthma</td>
<td>So Ri Kim (Jeonju, Republic of Korea), Nguyen Quoc Hung, Kum Ju Chae, Gong Yong Jin, Sanghun Choi</td>
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<td>PA2288</td>
<td>Machine learning applied to chest x-rays to support the diagnosis of pulmonary tuberculosis</td>
<td>Marcelo Foud Rabahi (Goiânia (GO), Brazil), Poliana Parreira, Afonso Fonseca, Fábrizio Soares, Marcus Barreto Conte</td>
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<td>PA2289</td>
<td>Effect of benralizumab on small airway dysfunction using functional respiratory imaging in patients with severe eosinophilic asthma</td>
<td>Lennart Conenmans (Maastricht, Netherlands), Mieke Crutsen, Wendel Dierckx, Sami Simons, Martijn Spruit, Bita Hajian</td>
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<td>PA2290</td>
<td>Imaging of human airways by endoscope-compatible dynamic microscopic optical coherence tomography</td>
<td>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</td>
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<td>PA2291</td>
<td>Use of dynamic chest radiographic measurements to estimate total lung capacity in patients with respiratory disease</td>
<td>Fred Fyles (Liverpool, United Kingdom), Ryan Robinson, Thomas Fitzmaurice, Rachel Burton, Amy Nuttall, Ram Bedi, Hassan Burhan</td>
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<td>PA2292</td>
<td>Differentiating diffuse cystic lung disease and emphysema cases from normal using Artificial Intelligence</td>
<td>Ronan Hearne (Dublin, Ireland), Katie Noonan, Brian Gaffney, Brian Sheehy, Niall McVeigh, Yasuhiro Sekimoto, Ali Ataya, Nishant Gupta, Francis Mccormack, Raphaël Borie, Francesco Bonella, David Murphy, Kathleen Curran, Cormac McCarthy</td>
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<td>PA2293</td>
<td>Utilising computer vision artificial intelligence to identify defects in airway ciliary motility and mucociliary clearance</td>
<td>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</td>
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<td>PA2294</td>
<td>Bioradiomic SPECT-CT quantification of active lung inflammation is influenced by heterogeneity of lung tissue</td>
<td>Benjamin Wellham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavanwe, Francis Sundram, Tom Wilkinson</td>
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<td>PA2295</td>
<td>Using CT to detect large airway collapse in severe asthma: worth the extra effort?</td>
<td>Wei Ling Chia (London, United Kingdom), James Hull, Emily Bartlett, Sujal Desai, David Watchorn</td>
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**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 III COVID-19 patients.

Patrick Smeeele (Amsterdam, Netherlands)
Phenotyping of Pulmonary Oedema in COVID-19 ARDS
Job Schippers (Amsterdam, Netherlands), Leila Atmowihardjo, Lieuwe Bos, Harm Jan Bogaard, Jurjan Aman

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 Albiperti, Paola Rogliani, Claudio Micheletto, Marco Contoli, Alessandro Sanduzzi Zamparelli, Federico Raimondi, Simone Pappacena, Luca Malandrino, Giorgio Lorini, Greta Carioli, Fabiano Di Marco

Prognostic value of respiratory compliance course on mortality in COVID-19 patients with veno-venous ECMO
Simon Valentin (Nancy, France), Mathieu Almaric, Guillaume Granier, Benjamin Pequignot, Christophe Guervilly, Kevin Duarte, Nicolas Girerd, Bruno Levy, Paul Dunand, Matthieu Koszutski, Hadrien Roze, Antoine Kimmoun

Impact of the COVID-19 Epidemic on Healthcare Utilization and Death Among Critically Ill Patients
Hye Jin Jang (Seoul, Republic of Korea), Soyol Han, Sungho Won, Bora Lee, Young Sam Kim

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, Deobra Stripari Schujmann Nogueira

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 Dorneles, Roberta W Werle, Ana C Starke, Rodrigo D M Plentz, Juliana C Ferreira, Celso R F Carvalho

Impact of COVID 19 and MRAB infection on mortality in ICU
Bogun kho (Gwangju, Republic of Korea), Hong-Joon Shin

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

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 Messinia, Vittoria Ventura, Sara Croce, Martina Meocci, Beatrice Pecora, Felice Perillo, Fabrizio Mezzasalma, Behar Cekorja, Elena Bargagli

Determining influences on ventilatory decision-making in COVID-19 ARDS
Kenki Matsumoto (London, United Kingdom), Hannah Malcolm, William Thomson, Magda Osman, Zudin Puthucheary, John Prowle, Timothy Stephens

The utility of lung ultrasound in COVID-19 pneumonia in the intensive care unit in real life settings.
Dimitrios Touppanakis (Athens, Greece), Anna Kyriakoudi, Evangelia Akoumianaki, Eleni Apostolakou, Iliana Ioannidou, Evangelos Kaimakamis, Evangelos Kaniaris, Paschalina Kontou, Magdalini Kyrkiakopoulou, Efthathia Potamianou, Charalampos Psarologakis, Vasiliki Soulountsi, Nektaria Xirouchaki, Konstantinos Pontikis

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 Hammadi, Rahma Ben Jazia, Anis Maatallah, Jihene Ayachi

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

PaO2/FiO2 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 Greco, Lara Pisani, Tommaso Tonetti, Paolo Palange

In Taiwan increasing ARDS Severity by Berlin Definition Reflects Overall Illness Severity.
Chang Yujen (Taichung City, Taiwan)

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 Yacoub, Ines Sebri, Rahma Ben Jazia, Anis Maatallah, Jihene Ayachi

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
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 Galmés

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 (Roma, Italy), Alessandra Oliva, Guido Siccardi, Angela Tramontano, Daniela Pellegrino, Angelo Petroiani, 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)

miR-155 and miR-221 expression in serum exosomes of Iranian moderate-severe asthmatic patients
Esmail Mortaz (Tehran, Islamic Republic of Iran), Neda Dezfli, Atefeh Fakharian, Ian Adcock

The link between the Gln27Glu polymorphism of the β2-adrenoceptor gene and the severity of the asthma course
Vladyslava Kachkovska (Sumy, Ukraine), Anna Kovchun, Lyudmyla Prystupa

The X and Y of inflammation, fibrosis and cell death in asthma
Karosham Reddy (Giebe, Australia), Karosham Reddy, Dikaia Xenaki, Senani Rathanyake, Sobia Idrrees, Fai Boedijono, Markus Weckmann, Matthew Padula, Maarten Van Den Berge, Alen Faiz, Brian Oliver

Differential miRNA expression could identify responders to biologic therapy in severe uncontrolled asthma
Amanda Iglesias Coma (Palma, Spain), Hanaa Shafieck, Josep Muncunill, Aarne Fleischer, Josep Luis Valera, Meritxell Lópe, Rocio Martinez, Aina Martin, Laura Canaves, Llc Riera, Mar Mosteiro, Inés Ersibiano, Luis Pérez De Llano, Borja G Cosío

MEG3 SNP variants are associated with the risk of asthma
Kuo-Liang Chiu (Taichung, Taiwan), Wen-Shin Chang, Chia-Wen Tsai, Mei-Chin Ming, Te-Chun Hsia, Da-Tian Bau

IL18 as a severity locus for COVID-19
Verónica Pulto-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Diego Ferrer, María Sebastián Moragil, Pilar Alonso-Lecue, Sandra Tello-Mena, Beatriz Abascal-Bolado, Sheila Izquierdo, Juan Jose Ruiz-Cubillan, Carlos Armiñanaz, Ricardo Blanco, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

Evaluation of TGF-β isoforms based on selected clinical parameters in asthmatic patients.
Marcelina Koćwin (Lodz, Poland), Mateusz Jonakowski, Alicja Majos, Janusz Szemraj, Piotr Kuna, Michal Panek

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

Transcriptomic characterization of type 2 innate lymphoid cells from asthma patients in response to prostaglandin D2 metabolites
Christina Gress (Hannover, Germany), Jens M. Hohlfied, Meike Müller

A plasma microRNA panel strengthens the early prediction of ICU mortality: A multicenter COVID-19 study

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 Tosshniwal, 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

PA2330 The influence of rs1799752 ACE indel variant and serum ACE enzyme activity in patients with severe COVID-19 and post-COVID-19
Ingrid Francke-Galindo (Mexico City, Mexico), Ivette Buendia-Roldán, Daniel I Ponce-Aguilar, Gloria Pérez-Rubio, Leslie Chávez-Galán, Rafael De Jesús Hernández-Zenteno, Ramón Faltén-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, Gajanand 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 Karmierki, Fabian Pott, Thomas Hoeftler, Cezpig Goecker, Markus Landthaler, Christine Goffinet, Jakob Trimpert, Markus Scholz, Martin Wittenuth, Holger Kirsten, Geraldine Nouailles

PA2335 Understanding the extracellular immunoproteasome in ARDS
Michael C. McKelvey (Culleybackey, 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

PA2336 Epithelial to mesenchymal transition (EMT) changes in patients with non-small cell lung cancer (NSCLC)
Wenyong Lu (Newnham, Australia), Collin Chia, Josie Larby, Greg Haug, Ashutosh Hardikar, Gurpreet Kaur Singh, 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, Mariapa Niceforo, Marta Daniele, Erica Bazzan, Mariella De Santis, Marianna Minniti, Alessandro Congedo, Ilaria Berardi, Alberto Papi, Alessandro Celi, Tommaso Neri, Dario Nieri

PA2339 Usefulness of RE-LYMP and AS-LYMP parameter in diagnosis of COVID-19 and sarcoidosis patients.
Elżbieta Rutkowska (Warsaw, Poland), Agata Raniuszewska, Iwona Kwiecien, Karina Jahnz- Różyk, 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 Soysa, Katerina Dimakou, Michal Shteinberg, Arietta Spinou, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhar, Charles Hawthor, Josje Altenburg, Francesco Blasi, Tobias Welte, Oriol Sibila, Stefano Aliberti, Amelia Shoemark, James D Chalmers
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

Proteinase 3 as a marker of clinical severity in bronchiectasis: Data from the EMBARC-BRIDGE study

Sphingolipids contribute to sex-specific differences in COPD pathologies
Elisabetta Granato (Naples, Italy), Ida Cerqua, Giuseppina Rea, Fiorentina Roviezzo, Francesca Polverino

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 Szpechcinski, Beatriz Martinez-Delgado, Beata Olejnicka, Sabina Janciauskiene, Joanna Chorostowska-Wynimko

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

TGF-β1, pSmad-2/3, Smad-7, and β-catenin are augmented in IPF pulmonary arteries: potential role in driving endothelial to mesenchymal transition (EndMT)
Wenying 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

Biomarkers of autoimmune processes in COPD.
Gülcehka Tashmetova (Tashkent, Uzbekistan), Irina Liverko

Characterization of the immunophenotype of circulating neutrophils in bronchiectasis
Evangelia Koukaki (SALAMINA, Greece), Efthymia Theofani, Nikolaos Paschalidis, Georgina Xanthou, Nikoletta Rovina

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

Piezo expression and function in airway smooth muscle in chronic obstructive pulmonary disease.
Nataliya Migulina (Groningen, Netherlands), Theo Borghuis, Ben Roos, Wim Timens, Eric Brinkman, Janette Burgess, Y.S. Prakash

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

Comprehensive analysis of bronchoalveolar lavage fluid by validating ELISA and MSD systems for 22 biomarkers
Saskia Carstensen (Hannover, Germany), Jens M. Hohlfed, Meike Müller

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

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

Effect of the HDACs inhibitor, Panobinostat, in a rat model of pulmonary fibrosis
Vanessa Pittozzi (Parma (PR), Italy), Paola Caruso, Francesca Ruscitti, Silvia Pontis, Maria Gloria Pittelli, Giancarlo Aquino, Roberto Volta, Barbara Pioselli, Maria Laura Faietti, Maurizio Civelli, Marcello Trevisani
Resolvin E3 inhibits phosphorylation of p38 MAPK signaling pathway leading to the reduction of TGF-β1 production on macrophage
Masakiyo Yatomi (Maebashi, Japan), Yusuhi Koga, Haruka Aoki Saito, Makiko Sato, Yosuke Miura, Hiroaki Tsurumaki, Noritaki Sunaga, Toshitaka Maeno, Satoshi Shuto, Takeshi Hisada

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

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

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. Nawijs, Barbro N. Melgert, Irene H. Heijink, Corry-Anke Brandsma, Janette K. Burgess

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

Dexamethasone restores TNFα-induced epithelial barrier dysfunction in primary rat alveolar epithelial cells
Naokata Kutsuzawa (Isehara, Japan), Yoko Ito, Shizuko Kagawa, Hiroto Takiguchi, Koichiro Asano

Extracellular vesicles regulate fibroblasts to myofibroblasts transition in chronic lung diseases
xu bai (sydney, Australia), Hui Chen, Brian Oliver

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

Interalveolar 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

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-Diez, Julio Cortijo

Loss of cofilin 1 in the airway epithelium of COPD causes mitochondrial dysfunction
Venkataramana Sidhayne (Baltimore, United States), Baishakh Ghosh, Bonnie Yeung-Luk, Vaishnavi Karanam, Shreeti Thapa

Elastase inhibitory activity (EIA) in Chronic Obstructive Pulmonary Disease (COPD) and Alpha-1 Antitrypsin Deficiency (AATD)
Georgina Farago (Barcelona, Spain), Gerard Orrhol, Alexa Núñez, Cristina Esquinas, Gialo Granados, Pablo Gabriel-Medina, Cristina Aljama, Miriam Barrecheguren, Francisco Rodríguez-Frías, Marc Miravitles

Targeting lung fibroblast senescence to restore ECM regulation in COPD
Roy R. Woldhuis (Groningen, Netherlands), Marten Van Den Berge, Wierd Kooistra, Wim Timens, Corry-Anke Brandsma

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
Impact of extrafine formulation single-inhaler triple therapy in health-related quality of life after three months of treatment in patients with asthma: the TriMaximize study
Andreas Rembert Koczulla (Schönau am Königssee, Germany), Berktan Akyildiz, Charlotte Suppli Ulrik, Detlef Nachtigall, Richard Russell, Valentina Bogoevska, Wolfgang Pohl, Tanja Borucki, Maurice-Dominique Martini, Christian Gessner

Change in treatment adherence after three months of treatment with extrafine formulation single-inhaler triple therapy in patients with asthma: the TriMaximize study
Frederik Trinkmann (Heidelberg, Germany), Berktan Akyildiz, Charlotte Suppli Ulrik, Detlef Nachtigall, Wolfgang Pohl, Valentina Bogoevska, Richard Russell, Veronika Grickschat, Christian Gessner

Change in asthma control after three months of treatment with extrafine formulation single-inhaler triple therapy in patients with asthma: the TriMaximize study

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
Hartmut Timmermann (Hamburg, Germany), Berktan Akyildiz, Valentina Bogoevska, Richard Russell, Detlef Nachtigall, Wolfgang Pohl, Charlotte Suppli Ulrik, Andreas Wendt, Christian Gessner

Impact of extrafine formulation single-inhaler triple therapy on lung function after three months of treatment in patients with asthma: the TriMaximize study
Christian Gessner (Leipzig, Germany), Berktan Akyildiz, Richard Russell, Detlef Nachtigall, Charlotte Suppli Ulrik, Valentina Bogoevska, Wolfgang Pohl, Björn Licht, Carl-Peter Créée

Are people with airways disease aware of the environmental impact of inhalers?
Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Taheera Ali, Rachael Ehikioya, Gráinne D’Ancona

Trends in inhaler use and associated carbon footprint: a sales data-based study in Europe
Alexander Wilkinson (Hertfordshire, United Kingdom), Ville Vartiainen, Christer Janson, Hanna Hisinger-Mölkänen, Lauri Lehtimäki

Socioeconomic disparities in the carbon footprint of asthma care in the UK: results from SABINA CARBON
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

Choice of Salbutamol Metered Dose Inhaler (MDI) type and use of a Spacer Impact Drug Delivery and Carbon Emissions
Mark Nagel (London (ON), Canada), Jason Suggett

A Real-World Evaluation of a Digital Self-Management and Adherence Support System in Patients with Severe Asthma
Laura Wiffen (Portsmouth, United Kingdom), Lynn Elsey, Thomas Brown, Milan Chauhan, Ina Kostakis, Stephen Fowler, Anoop J Chauhan

Switching inhaler treatment from pMDI to DPI in real-world; reduction of carbon footprint
Lauri Lehtimäki (Tampere, Finland), Christer Janson, Ville Vartiainen, Hanna Hisinger-Mölkänen

Carbon footprint of as-needed budesonide-formoterol in mild asthma: a post hoc analysis
Lee Hatter (Wellington, New Zealand), Pepa Bruce, Allie Eathorne, Mark Holliday, Mark Weatherall, Richard Beasley

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
François Rony (Bois-Colombes, France), Jelle Klein, Arnaud Valenta, Alessandro Guasconi, Gianluigi Poli
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

Djeyapraba Kadar (Liverpool, United Kingdom), Katie Fitzsimmons, Elaine Gossage, Sarah Sibley, Denis Wat, David Barber, Emma Rickards, Samantha Hayes

The transcendence of capsule transparence 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, María Esther Quintana Gallego, Jose Luis López-Campos Bodineau

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 Valant, Rabab Abbadi, Alessandro Guasconi, Gianlugi Poli

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

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
The impact of a multidisciplinary assessment on COPD hospitalisations
Finbarr Harnedy (Cork, Ireland), Jack Allen, Michele Cuddihy, Eimhear Ward, Maeve Sorohan, Imran Sulaiman, Breda Cushen

Dynamic pulmonary hyperinflation induced by 6 and 12 minute 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

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

Poor perception of symptom - cause of exacerbation of Bronchial Asthma
Chinkita Agrawal (Bareilly, India), Rajesh Agrawal, Rajat Agarwal

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

A pilot study of cognitive disorders, depression and anxiety in obstructive lung disease
Iulian-Laurentiu Buican (Craiova, Romania), Victor Gheorman, Cristina Calărașu, Andreia Mihai, Costin-Teodor Streba

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 Dhiballah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej

Metabolic Syndrome in a COPD Population: Frequency and Significance
KHALED DEGHDEGH (Annaba, Algeria), Ouafa Guellati, Feriel Atoui, Randa Yakoubi, Fouad Khalloufi

Asthma with fixed airflow obstruction has comparable small airway dysfunction with asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon

Clinical characteristics of female patients with COPD: a multicenter cross-sectional CAP study in Japan
Tasuku Yamamoto (Ube, Japan), Keiji Oishi, Ryo Suetake, Syuichiro Ohta, Yoriyuki Murata, Yoshikazu Yamaji, Kenji Sakamoto, Maki Asami-Noyama, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

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

COPD and tuberculosis: friends or foes?
NADA Boutbagha (Agadir, Morocco), Sofia Farhat, Hanane Ikrou, Younes Essaid, Abdelkarim Khannous, Aboubakr Imzil, Abdelmajid Oulhib, Fatiha Bounoua, Khadija Aitnasser, Houssane Ennaceri, Oussama Hallouni, Houda Moubachir, Hind Serhane

Alpha- Antitrypsin Deficiency as a cystic lung disease
Aishath Fazleen (Southampton, United Kingdom), Ausami Abbas, Jonathan Dunbar, Benjamin Welham, Alex Kong, Tom Wilkinson

Poster session: Monitoring in chronic airway disease (2)

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

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
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 Aqello, Lauren Mccaffrey, Sebastien Chastin, Ragnberth Helleday, Karin Wadell

Zichen Ji (Madrid, Spain), Katiuska Herminia Liendo Martinez, Stephany Ivonne Briones Alvarado, Crsithian Alonso Correa Gutierrez, Luis Puente Maestu, Javier De Miguel-Diez

Cluster analysis applied to 142 Algerian patients with COPD
Karim KHENNOUNF (ALGIERS, Algeria), Abdelkarim Saadi, Souad Souilah, Yacine Benbetka, Samya Taright

Clinical significance of symptoms in smokers with preserved pulmonary function: a cross-sectional study
Allabayrgen Myeryemkhaan (Ulanbaatar, Mongolia), Byambatseren Boldbaatar, Otoxnjargal Gurragchaa, Amartuvshin Ganbold, Ichinnorov Dashtseren

Analysis of the relation between tidal and forced spirometric curves
Rob Hagmeijer (Enschede, Netherlands), Rutger Hebbink, Judith Elshof, Marieke Duiverman, Peter Wijkstra

The effectiveness of monitoring adherence to regular inhaled corticosteroid alone or in combination with a long-acting β2-agonist using electronic methods: a narrative systematic review
Mohammed Almutairi (Birmingham, United Kingdom), John Marriott, Adel Mansur

Guideline-modified asthma control test (GmACT): improving monitoring of disease control
Enrico Schiavi (Roma, Italy), Maria Parmigiani, Francesca Cefaloni, Cristina Bocceabell, Luca Richeldi, Matteo Bonini

Changes in obstruction classification using different interpretation strategies
Martijn Cuipers (Roermond, Netherlands), Monique Hardy, Herman Jan Pennings

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

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

Impulse oscillometry: a useful toll for the air trapping detection.
Maria Rodil Riera (LANGREO, Spain), Ramón Fernández Álvarez, Marta Íscar Urrutia, Marta José Viezquez López, Gemma Rubinos Cuadrado, Isabel Martinez Gonzalez-Possada, Angela Lanza Martinez, Laura Martinez Vega, Eduardo Sanchez Vazquez, Juan Francisco Nieves Salceda, Laura Abad Chamorro, Patricia Alvarez Alvare, Mªa María Garcia Clemente

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

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

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 Elia is Carapagno

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

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 Mangueria Saravia-Romanholo, Paulo A Lotufo, Isabela Bensenor, Itamar Souza Santos, Iolanda Fátima Lopes Calvo Tibério

Automated quantification of QT-intervals by an algorithm: A validation study in patients with COPD
Dario Kohlbrenner (Copenhagen, Denmark), Maya Bisang, Sayaka S. Aeschbacher, Emmanuel Heusser, Silvia Ulrich, Konrad E. Bloch, Michael Furian
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 (sCAP)

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: Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Code</th>
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<tbody>
<tr>
<td>08:30</td>
<td>The medical management of spontaneous pneumothorax</td>
<td>Steven Walker (Bristol (Avon), United Kingdom)</td>
<td>2434</td>
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<tr>
<td>08:45</td>
<td>The surgical management of spontaneous pneumothorax</td>
<td>Marcello Migliore (Riyadh, Saudi Arabia)</td>
<td>2435</td>
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<tr>
<td>09:00</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>2436</td>
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<tr>
<td>09:15</td>
<td>What’s new in sCAP</td>
<td>Ignacio Martin-Loeches (Dublin, Ireland)</td>
<td>2437</td>
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<tr>
<td>09:30</td>
<td>Coadjuvants in sCAP</td>
<td>Antoni Torres Marti (Barcelona, Spain)</td>
<td>2438</td>
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<tr>
<td>09:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>2439</td>
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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)

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<th>Time</th>
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<tr>
<td>08:30</td>
<td>What do we know about the mechanisms of PH in ILD: translational research</td>
<td>Soni Savai Pullamsetti (Giessen, Germany)</td>
<td>2440</td>
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<td>08:45</td>
<td>From screening to phenotypes in PH-ILDs: the impact of new guidelines</td>
<td>Lucilla Piccari (Barcelona, Spain)</td>
<td>2441</td>
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<tr>
<td>09:00</td>
<td>Pro: it is time to treat PH in ILD</td>
<td>Oksana Shlobin (Falls Church, United States)</td>
<td>2442</td>
</tr>
<tr>
<td>09:15</td>
<td>Con: it is not time to treat PH in ILD</td>
<td>John Wort (London, United Kingdom)</td>
<td>2443</td>
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</table>
**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

**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?**  
Silke Ryan (Dublin, Ireland)

**08:45**  
**Heart failure in sleep-disordered breathing: is positive airway pressure therapy meaningful?**  
Douglas Bradley (Toronto (ON), Canada)

**09:00**  
**Is sleep-disordered breathing a risk factor or phenotype of cardiovascular disease?**  
Manuel Sanchez De La Torre (Lleida, Spain)

**09:15**  
**New kids on the blocks: pharmacologic treatment of sleep-disordered breathing also for cardiovascular patients?**  
Elisa Perger (Milano, Italy)

**09:30**  
**Discussion and Q&A**  
All Speakers

**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

**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**  
Lara Pisani (Bologna (BO), Italy)

**08:45**  
**Pressure treatment in acute respiratory care**  
Claudia Crimi (Catania (CT), Italy)

**09:00**  
**Flow treatment in chronic respiratory care**  
Rebecca D'Cruz (London, United Kingdom)

**09:15**  
**Pressure treatment in chronic respiratory care**  
Wolfram Windisch (Cologne, Germany)

**09:30**  
**Discussion and Q&A**  
All Speakers

**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)

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<tr>
<td>08:30</td>
<td>Transcriptomics in chronic airway diseases: when, how and why?</td>
<td>Martijn C. Nawijn (Groningen, Netherlands)</td>
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<tr>
<td>08:45</td>
<td>Spatial omics: a cutting-edge tool to navigate the airway map</td>
<td>Francesca Polverino (Houston, United States)</td>
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<td>09:00</td>
<td>Proteomics in airway diseases: current approaches and future directions</td>
<td>Ian M. Adcock (London, United Kingdom)</td>
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<td>09:15</td>
<td>Integration of omics in clinical cohorts: unrolling Ariadne’s thread</td>
<td>Rosa Faner Canet (Barcelona, Spain)</td>
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<td>09:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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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)

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<tr>
<td>08:30</td>
<td>Management of adult bronchiectasis, including Q&amp;A</td>
<td>Eva Van Braeckel (Ghent, Belgium)</td>
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<tr>
<td>08:52</td>
<td>Environmental health prevention and standards on air pollution, including Q&amp;A</td>
<td>Isabella Annese Maesano (Montpellier, France)</td>
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<tr>
<td>09:14</td>
<td>Diagnosis and treatment of Langerhans cell histiocytosis in adults, including Q&amp;A</td>
<td>Sergio Alfonso Harari (Milano (MI), Italy)</td>
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<td>09:36</td>
<td>Treatment of stage I non-small cell lung cancer, including Q&amp;A</td>
<td>Georgia Hardavella (Athens, Greece)</td>
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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)

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<tr>
<td>08:30</td>
<td>Patient and outcome assessment for care and rehabilitation at home</td>
<td>Narelle Cox (Melbourne (VIC), Australia)</td>
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</table>
08:45 Exercise training and physical activity intervention at home
Marc Spielmanns (Wald, Switzerland)

09:00 Education, self-management and other components of home-based care and rehabilitation
Jean Bourbeau (Montréal (QC), Canada)

09:15 Discussion and Q&A
All Speakers

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 Discussion and Q&A
All Speakers

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 Pro: age of 65 years is no longer a barrier for lung transplant candidacy
Konrad Hoetzenecker (Wien, Austria)

09:00 Con: age still matters in candidate selection for lung transplantation
Are Martin Holm (Oslo, Norway)

09:15 Discussion and Q&A
All Speakers

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 Soyza (Newcastle-upon-Tyne, United Kingdom), Gareth Hynes (Oxford (Oxfordshire), United Kingdom)

OA2483 Late Breaking Abstract - INNA-051 prophylaxis enhances innate immune responses confirming accelerated viral clearance in a human influenza challenge model.
Francesca Mercuri (Melbourne, Australia), Hayley Mcquilton, Nicholas West, Ping Zhang, Scott White, Bruce E Miller, Ruth Tal-Singer, Christophe Demaison

OA2484 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
Joan B Soriano (Madrid, Spain), Adrián Pelaez, Esteve Fernandez, Julio Ancochea

OA2485 LSC - 2023 - Longitudinal proteomic profiling reveals early onset increase in collagens and (auto-)antibodies in COVID-19 patients
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 Diagnosis of COVID-19 with enhanced real-time mass spectrometry breath analysis
Stanislas Grassin Delyle (Montigny le Bretonneux, France), Camille Roquencourt, Hélène Salvator, Emmanuelle Bardin, Elodie Lamy, Eric Farfour, Naline Emmanuel, Philippe Devillier

OA2487 Abnormal immune response in patients with persistent lung sequelae after COVID-19
Tamara Cruz Santa Cruz (Barcelona, Spain), Nuria Mendoza, Nuria Albacar, Lidia Perea, Pau Marrades, Carolina Panadero, Odette Viñas, Estibaliz Ruiz, Alvar Agusti, 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 Orenge, Matthew A Sleeman, Sandra Lindstedt, Cecilia Andersson, Luiz Fernando Silva, Armaro Nunes Duarteneto, Paulo Hilario Nascimento Saldiva, Caroline Sanden, Thais Mauad, Jonas Erjefält |
| OA2490 | DIURNAL RHYTHMS IN COVID-19 VACCINE EFFICACY  
Guy Hazan (Dvira, Israel), Or Duek, Hillel Alapi, Huram Mok, Alex Ganninger, Elaine Ostendorf, Carrie Giersach, Gabriel Chodick, David Greenberg, Jeffrey Haspel |
Omer Elnoeima (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 |

**Session 251**

**Brown 1+2**

**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, Aeiko Zwinderman, René Lutter |
| OA2495 | Late Breaking Abstract - Dynamics of the blood innate lymphoid cell compartment in patients with severe asthma undergoing type 2 biology's treatment: Initial findings in the BIOCROSS study  
Lorenz Wirth (Huddinge, Sweden), Valentya Yasinska, Christopher Andrew Tibbitt, Whitney Weigel, Thomas Hochdörfer, Lars I. Andresson, 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 Rädinger, 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 Moaded, 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 astegolinah (COPD-ST20P).  
Adam Wright (Leicester (Leicestershire), United Kingdom), Matthew Richardson, Seid Mohammed, Claudia Micieli, Dorothy Cheung, David Cousins, Ahmed Youssif, Neil Greening, Michele Grimbaldeston, 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 Andresson, Ian Adcook, Ratko Djukanovic, Sven-Erik Dahlén, Craig E. Wheeleock |
| OA2500 | Infertility in women with asthma – does asthma also exist in the uterus?  
Anne Vejen Hansen (Kobenhavnv NV, Denmark), Casper Tidemandsen, Henriette Svarre Nielsen, Reza Serizawa, Antje Johanne Katrine Stubsgaard, Elisabeth Juul Gade, Piia 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 autoimmune responses in severe asthma
Manali Mukherjee (Hamilton (ON), Canada), Kiho Son, Kayla Zhang, Raquel Lopez, Aswathi Nair, Emily Voltson, 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) : Intestinal lung diseases
Method(s) : Endoscopy and interventional pulmonology  General respiratory patient care  Epidemiology  Pulmonary function testing  Transplantation  Cell and molecular biology
Tag(s) : Clinical

OA2505 Childhood intestinal lung disease in Turkey: First data from the national registry

OA2506 Analysis of risk factors for protracted bacterial bronchitis in infancy and long-term sequelae
Anne Schlegendal (Bochum, Germany), Karen Brückner, Jan Herrmann, Stefanie Dillenhöfer, Christoph Maier, Folke Brinkmann, Cordula Koerner-Rettberg

OA2507 The effect of nutritional parameters on the prognosis of childhood intestinal lung diseases

OA2508 Paediatric lung transplantation for children with intestinal lung disease: A 12-year single-center analysis of underlying ChILD diagnoses and outcome
Julia Carlsen (Hannover, Germany), Nikolaus Schwerk, Carsten Müller, Katharina Schütz, Florian Länger, Gesine Hansen, Jawad Salman, Dmitriy 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)
Honorable 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 Le 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-Tripti

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
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)

- 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 Rönnmark, Anders Blomberg, Anne Lindberg

- 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

- Association between indoor bacterial communities, lung function and airway inflammation

- 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 Gruzieva, Erik Melén

- 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 Gruzieva, Judith Garcia-Aymerich, Sara Koch, Chloé I. Bloom, Elaine Fuertes

- 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, Jouini J.K. Jaakkola

- 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

- 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

- 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 Muhongerv, Jann Rupp

- Economic and environmental impact of the non-clinical change of inhaler devices for COPD and asthma in Spain
  Joan B Soriano (Madrid, Spain), Miriam Solozabal-Coll, Jose Vicente Galindo, Oriol Sola-Morales

OA2514 Discussion and Q&A  All Speakers

OA2515 Late Breaking Abstract  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

OA2516 Antimicrobial resistance genes in the upper respiratory tract of COPD patients and controls in relation to air pollution from livestock farms

OA2517 Association between indoor bacterial communities, lung function and airway inflammation

OA2518 Ambient air pollution exposure linked to long COVID among Swedish young adults

OA2519 The residential green environment and lung function into adolescence in European birth cohorts. A CADSET initiative

OA2520 Air pollution modifies the association between greenness and the development of allergic rhinitis up to 27 years of age: The Espoo Cohort Study

OA2521 Long-term exposure to air pollution and the risk of obstructive lung disease in a Danish nationwide analysis

OA2522 Long-term exposure to ambient ozone and lung function decline over 20 years in a prospective cohort of adults: The ECRHS study

OA2523 Influence of improved cookstove in rural Rwanda on indoor air pollution and lung function

OA2524 Economic and environmental impact of the non-clinical change of inhaler devices for COPD and asthma in Spain

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
Illaria Capua (Rome, Italy)
### Gold  Session 255  10:15 - 11:45

**Clinical cases: Imaging of environment-induced changes in the lung**

**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 |

**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: | Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark) |

#### 10:15  Hypersensitivity pneumonitis, including Q&A
Jonathan H. Chung (San Diego, United States)

#### 10:37  Asthma, rhinosinusitis and COPD, including Q&A
Anna Kerpel-Fronius (Budapest, Hungary)

#### 10:59  Environmental exposure: pneumoconosis, including Q&A
Johny Verschakelen (Leuven, Belgium)

#### 11:21  Respiratory infection in the era of a changed climate, including Q&A
Eva Polverino (Barcelona, Spain)

### 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 |

**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  Managing PH patients with right heart failure in the intensive care unit
Laurent Savale (Le Kremlin-Bicêtre, France)

#### 10:30  Pregnancy and PAH
Silvia Ulrich (Zurich, Switzerland)

#### 10:45  Idiopathic PAH patients with risk factors for heart and lung disease
Harm Jan Bogaard (Amsterdam, Netherlands)

#### 11:00  Palliative care in pulmonary hypertension
Wendy Gin-Sing (London, United Kingdom)
### Session 257: 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 pathophysiologic 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)

**Program:**
- **10:15** New diagnostic tools for SDB: from technical standards to artificial intelligence and clinical implications  
  Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)
- **10:30** Biochemical biomarkers: do they have a role in the diagnosis of SDB?  
  Malcolm Kohler (Zürich, Switzerland)
- **10:45** Pathophysiological traits: how to determine in routine polysomnography/polygraphy and translate into clinical decisions?  
  Winfried J. Randerath (Solingen, Germany)
- **11:00** Diagnostic approach of excessive daytime sleepiness  
  Maria Rosaria Bonsignore (Palermo, Italy)
- **11:15** Discussion and Q&A  
  All Speakers

### Session 258: Hot topics: Emerging evidence to improve quality of survival after critical illness

**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)

**Program:**
- **10:15** Lessons from the TEAM trial on early mobilisation of critically ill patients  
  Sabrina Eggmann (Bern, Switzerland)
- **10:30** Effectiveness of respiratory muscle training for improving weaning outcomes and functional recovery in mechanically ventilated patients  
  Daniel Langer (Leuven, Belgium)
- **10:45** Patient's perspective  
  Inge Gryson (Belgium)
- **10:53** Multidimensional disability after critical illness: implications for rehabilitation  
  MICHELE VITACCA (Lumezzane (Brescia), Italy)
**Coral 1**

**Session 259**  
10:15 - 11:45

**Symposium: Excited: 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)

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<th>Time</th>
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<tr>
<td>10:15</td>
<td>Deciphering extracellular vesicle cargo and its implications for pulmonary fibrosis</td>
<td>Olivier Burgy (Dijon, France)</td>
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<td>10:30</td>
<td>Extracellular vesicles as a biomarker in ageing-related lung disease</td>
<td>Louise Donnelly (London, United Kingdom)</td>
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<td>10:45</td>
<td>An extracellular vesicle-based vaccine against SARS-CoV-2</td>
<td>Kenneth Witwer (Baltimore, United States)</td>
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<td>11:00</td>
<td>Mesenchymal stem cell-derived extracellular vesicles as executors of host cell reprogramming in acute respiratory distress syndrome</td>
<td>Anna Krasnodembskaya (Belfast (Belfast), United Kingdom)</td>
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<td>11:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Coral 2**

**Session 260**  
10:15 - 11:45

**Respiratory medicine meets other disciplines: Acute respiratory infections: what’s new?**

**A joint ERS/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)

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<th>Time</th>
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<tr>
<td>10:15</td>
<td>The pathogens: worldwide evolution and epidemiology of acute respiratory viruses</td>
<td>Collin Russell (Amsterdam, Netherlands)</td>
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<td>10:30</td>
<td>The host response: pathogenesis of disease focusing on systemic and mucosal biomarkers</td>
<td>Peter Openshaw (London, United Kingdom)</td>
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<td>10:45</td>
<td>Prevention: strategies to prevent infection by vaccination and other measures</td>
<td>Hanna Nohynek (Helsinki, Finland)</td>
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11:00  Treatment: should we manage all viral infections like COVID? Proning, continuous positive airway pressure and steroids
Maxime Patout (Paris, France)

11:15  Discussion and Q&A
All Speakers

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  Advances in physiology of chronic respiratory failure
Wolfram Windisch (Cologne, Germany)

10:30  Do we need new modes of home mechanical ventilation in COPD?
Patrick B. Murphy (Oxted (Surrey), United Kingdom)

10:45  The good, the bad and the ugly of home mechanical ventilation telemonitoring
Marieke L. Duiverman (Groningen, Netherlands)

11:00  Discussion and Q&A
All Speakers

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 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  Introduction
All Speakers

10:40  Relationship between oxygen uptake and work rate
Paolo Onorati (Alghero (SS), Italy)

10:40  Anaerobic/lactate threshold
Luis Puente Maestu (Madrid, Spain)

10:40  Ventilatory efficiency
Andrew Ramsook (Rochester, United States)
Skills workshop: SW8 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 Performing spirometry
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

10:40 Standardised static lung volume measurement using whole-body plethysmography
Monique Wapenaar - De Korver (Vlaardingen, Netherlands)

10:40 Measurement of airway resistance and resistance-volume loops using whole-body plethysmography
Mart N. van der Plas (Monster, Netherlands)

10:40 Reporting and interpretation of case studies
Gregory King (Sydney (NSW), Australia)
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

Safety and efficacy study of ACT001 in IPF and fILD patients
Ian Glaspole (Melbourne (VIC), Australia), Dongpo Cai, Dan Chambers

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

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

A Randomized, Embedded, Multifactorial Adaptive Platform trial for ILD (REMAP-ILD): The conceptual design
Tejaswini Kulkarni (Homewood, United States), Leticia Kawano-Dourado, Kerri Johannson, 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

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

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

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

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

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), Ansgar Valipour, Stephan Eisenmann, Joachim H. Ficker, Daniel P. Franzen, Wolfgang Gesierich, Christian Gra, Martin Hetzel, Peter Hammerl, Felix J. Herth, Kaid Darwine

Bronchial Rheoplasty for Chronic Bronchitis: 6-Month Results from the European Registry Study
Judith Brock (Heidelberg, Germany), Felix Herth, Kaid Darwine, Ralf-Harto Hübner, Dirk Skowasch, Björn Schwick, Wolfgang Gesierich, Christian Schumann, Ansgar Valipour

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 Gra, Wolfgang Gesierich, Andreas Gebhardt, Joachim Ficker, Stephan Eggeling, Stefan Andreas, Bernd Schmidt, Stephan Eisenmann, Björn Schwick, Karl-Josef Franke, Andreas Fertl, Ralf-Harto Hübner

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

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
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, En-Guo Chen, Di-Fei Chen, Feng Wang, Xiao-Ping Wang, Guang-Nan Liu, Xiao-Ji 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

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

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)

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

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

Vitamin K status is associated with CT-quantified emphysema severity: results from COSYCONET
Iantje Piscaré (Maasbracht, Netherlands), Rob Janssen, Robert Bals, Jürgen Biederer, Christian Herr, Rudolf Jörres, Leon Schurgers, Claus Vogelmeier, Emiel Wouters, Peter Alter, Frits Franssen

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, Abriama Veluchamy, Petra Rauchhaus, Thomas Pembridge, Megan Crichton, Jennifer Pollock, Simon Finch, Alison J Dickers, Pauline Billingham, Furrah Hussain, Margaret Band, Andrew Smith, Manish Patel, Mohammad Paracha, Gourab Choudhury, Devesh Dhasmana, Rekha Chaudhuri, Philip M Short, James D Chalmers

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

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

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

Improvements in Leicester Cough Questionnaire Subdomains in a Phase 2b Trial of Camlipixant in Refractory Chronic Cough
Surinder S. Birring (London, United Kingdom), Jaclyn Smith, Alyn Morice, James Hull, Mandel Sher, Sylvain Lanouette, Ronghua Yang, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli

Gefapixant efficacy and safety in participants with history of refractory or unexplained chronic cough for ≥1 vs <1 year
İmran Satia (Hamilton, Canada), Surinder S. Birring, Lorcan Mcgarvey, Jaclyn A. Smith, Susan Lu, Allison Martin Nguyen, Jin Xu, Paul Reyfman, Eduardo Urdaneta, George Philip, Carmen La Rosa
### 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)

<table>
<thead>
<tr>
<th>Abstract Title</th>
<th>Authors</th>
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<tr>
<td>Longtime follow-up on exercise and quality of life in people with Cystic Fibrosis receiving Elexacaftor, Tezacaftor and Ivacaftor – a Copenhagen cohort</td>
<td>Lue Katrine Drasbæk Philipsen (copenhagen, Denmark)</td>
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### 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)
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 Mailly, Thomas Baumert, Antje Prasse, Alberto Tosó, Markus Meyer, Stephen Toovey, Luigi Manenti, Roberto Iacone, Frauke Christ, Bart Vanaudenaerde, MariannneCarlton, Wim Wuyts

Spatiotemporal analysis of inflamming and senescence programs in lung fibrosis using time-resolved single-cell transciptomtics and multiplexed immunofluorescence
Janine Gote-Schniering (Bern, Switzerland), Janine Gote-Schniering, Mareike Lehmam, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steinchen, R. Christoph Jentzsch, Christoph Mayr, Yuxin Chen, Niklas Lang, Ahmed Agami, Ilias Angelidis, Shuhong Zhou, Melanie Königshoff, Fabian Theis, Herbert Schiller

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

A spatially resolved extracellular matrix proteome atlas of the distal human lung
Yuxin Chen (München, Germany), Janine Gote-Schniering, Michaela Müller, Pascal Albanese, Anrdis Jankevics, R. Christoph Jentzsch, Aleksandra Tata, Meshal Ansari, Laurens De Sadeeleer, Lin Yang, Lukas Heunmos, Ahmed Agami, Shuhong Zhou, Christoph H. Mayr, Rudolf Hatz, Christian P. Schneider, Jürgen Behr, Anne Hillgendorff, Ali Oender Yıldırım, Mircea-Gabriel Stoleriu, Peter Dorfmüller, Fabian J. Theis, Purushothama Rao Tata, Malte D. Luecken, Richard A. Scheltema, Herbert B. Schiller

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 Demney, Joshua Bull, Emmanouela Repapi, Martin Sergeant, Chaitanya Vuppusetty, C Cosmic Consortium, Helen Byrne, Stephen Taylor

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, Jose Ivo A Beserra, Ana Cláudia Custódio, Iolanda De Fátima Lc Tibério, Rodrigo P Ureshino, Rafael H Lamberti, Ayman K Hamouda, Roberta Ss Yamaguchi, Alessandra M Ribeiro, Carla M Prado

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

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

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

Elementary, my lung fibrosis: unravelling elemental aspects in IPF pathology
Bryan Falcones (Malmö, Sweden), Maik Kähnt, Barbora Michaliková, Ulf Johansson, Linda Elowsson, Karina Thånell, Gunilla Westergren-Thorsson

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, Physican 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)

11:15 Introduction
Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands)

11:20 Spirometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)
11:30  Oscillometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)  2636

11:50  Case discussion (Spirometry paediatric, adult, oscillometry)
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands), Chung-Wai Chow (Toronto (ON), Canada)  2637

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 Elnema, Paul L Greenhalff, 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 Mafort, Agnaldo 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, Lais Bacchin De Oliveira, Luciana Castilho De Figueirêdo, Hugo Ceccato, Julian Silva, Pedro Maximink Esteves Villar, Evelyn Regina Couto, Paulo Roberto Araujo Mendes, Luciene Da 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-Wollof, 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, Glynnna Ong-Cabarga

PA2689  Effect of tele-rehabilitation program with weekly monitoring in post-COVID-19 pneumonia patients
Wutthichai Sae Chen (Bangkok, Thailand), Chalermdet Prapinpairoj, Timporn Vitoonpong, Worawan Sirichana, Amornpun Wongkarnjana

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, Zsofia 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 Karsanj, 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
Chwook 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, Harmeeet 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 Akylbekov, 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 Fereydoon zad, 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, Shyuso 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, Shyuso 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 Rodriguez González-Moro
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<th>Abstract ID</th>
<th>Title</th>
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<tr>
<td>PA2708</td>
<td>Extracellular vesicles from PBDE-47 treated M(LPS) THP-1 macrophages modulate gene expression in ALI culture of airway epithelium.</td>
<td>Mirella Profita (Palermo (PA), Italy), Giusy Daniela Albano, Valeria Longo, Angela Marina Montalbano, Noemi Alongi, Paolo Colombo</td>
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<td>PA2709</td>
<td>The role of the non-coding RNA in COPD</td>
<td>Jinkyeeong Park (Seoul, Republic of Korea), Minseok Seo, Woo Jin Kim, Ji Ye Jung, Cheon Woong Choi</td>
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<td>PA2710</td>
<td>Computational fluid dynamics analysis of small airway deformation in COPD</td>
<td>Yoursy Khaled Mohamed Elmadhya Mohamady (Leuven, Belgium), Vincent Geudens, Charlotte De Fays, Iwein Gyselinck, Lucia Aversa, Pieter Jan Kerekhfo, Gitte Aerts, Astrid Vermaut, Hanne Beeckmans, Karen Maes, Lynn Willems, Marie Vermaut, John Mcdonough, Laurent Godinas, Rozenn Quarc, Wim Wuyts, Robin Vos, Laurens Ceulemans, Dirk Van Raemdonck, Ghislaine Ramirez, Wim Janssens, Marcel Filoche, Bart Vanaudenaerde</td>
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<td>PA2712</td>
<td>A survey of patient engagement in primary ciliary dyskinesia</td>
<td>Connie Webster (Leeds, United Kingdom), Emma Farrell, Niccola Burke, Giulia Spoletini, Daniel Peckham</td>
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<td>PA2713</td>
<td>Fractional dynamics deep learning approach for diagnosing COPD stages</td>
<td>Stefan Mihaicuta (Timisoara (Timis), Romania), Chenzhong Yin, Mihai Udrescu, Gaurav Gupta, Mingxi Cheng, Lucretia Udrescu, David M. Mannino, Andrei Lihu, Hantang Zhang, Paul Bogdan</td>
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<td>PA2714</td>
<td>Metabolic syndrome and lung function – pilot study LungMetS</td>
<td>Andreea Miha (craiova, Romania), Cristina Calarasu, Laurentiu Buican, Marius Matei, Costin-Teodor Streba, Victor Ionel Greco, Mihaela Ionela Vladu</td>
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<td>PA2715</td>
<td>COPD as a trigger for the development of thromboses in patients with defects in the genes predisposing to thrombosis</td>
<td>Elnorahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko</td>
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<td>PA2716</td>
<td>Spirometry network: a program for the future</td>
<td>Mariana Cardoso Tavares (Guarda, Portugal), Filipa Fernandes, Élin Almeida, Filipa Jesus, Fernando Silva, Joana Ribeiro, Sara Braga, Luis Ferreira</td>
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<td>PA2717</td>
<td>The role of DRD2 ubiquitination in macrophage polarization</td>
<td>Tao Fan (Chengdu (Sichuan), China), Yan Lv</td>
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<td>PA2718</td>
<td>Alpha 1 antitrypsin deficiency in severe asthma patients</td>
<td>Martina Zappa (Tradate, Italy), Patrizia Pignatti, Sarah Grossi, Francesco Ardesi, Rosella Centis, Elisabetta Zampona, Laura Saderi, Giovanni Sotgiu, Antonio Spanevello, Dina Visca</td>
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<tr>
<td>PA2719</td>
<td>Gene mutations and clinical manifestations of alpha-1 antitrypsin deficiency in Czech patients – a pilot study</td>
<td>Eva Volakova (Olomouc 9, Czech Republic), Jana Petrkova, Lenka Kocourkova, Jaromir Zatloukal, Petr Jakubec, Martin Petrek</td>
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<td>PA2720</td>
<td>Late Breaking Abstract - Changes in surfactant lipid-composition in allergic asthma in- and outside birch-pollen season</td>
<td>Anna-Carin Olin (Göteborg, Sweden), Susanna Lohman Haga, Per Larsson, Spela Kokejl, Linus Schiöler, Per Larson, Spela Kokejl, Linus Schiöler</td>
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**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

**Tag(s):** Clinical

**Chairs:** Marijke Proesmans (Leuven, Belgium), Livia Elena Cumpanasu (Pucioasa, Romania)

**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 Bennelykke, Bo Chawes

**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 Tavelande, Colin Palmer, Somnath Mukhopadhyay, Katy Fidler
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 Faizwati Faridatul Akmar Mohamad, Shangari Kumaseelan, Yi Cheau Chua, Yee Yen Tan, Sze Chiang Lui, Maria Kamal, Lui 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

Genotypic diversity and immune dysregulation in children with HRA(rhinovirus) infections
Adnan Zafar (Rawalpindi, Pakistan), Bandar Alosaimi, Asif Naeem

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

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

Role and Diagnostic Performance of Host Epigenome in Respiratory Morbidity after RSV Infection
Sara Pischedda (Santiago de Compostela, Spain), Irene Rivero-Calle, Alberto Gómez-Carballa, Miriam Cebeý-López, Ruth Barral-Arca, Jose Gómez-Rial, Jacobo Pardo-Seco, María José Curras-Tualá, Sandra Viz-Lasheras, Ana Belen Crueiras, Angel Díez-Lagares, Federico Martinón-Torres, Antonio Salas

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 Burack, Assaf Adar, Aviv Goldbart, Sarah Weissmann, Bracha Cohen, Itai Hazan, Amir Horev

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

Evaluation of pulmonary function tests and predictors in necrotizing pneumonia

Distinction Between Hemoptysis and Pseudohemoptysis: 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

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 Duc, Marion Curdy, Sophie Yammine, Philipp Agyeman, Pascal Bettel, Philipp Latzin, Insa Korten, Bild Bild Study

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

Exercise capacity is preserved in children six months after COVID-19 infection.
Cinzia Ferrero (Nichelino (TO), Italy), Marco Denina, Lorenza Appendini, Elisabetta Bignamini, Lucia Ronco, Silvia Garazzino

Pulmonary evaluation in children with Long-COVID
Paola Di Filippo (Chieti (CH), Italy), Francesco Sansone, Laura Sgrazzutti, Sabrina Di Pillo, Francesco Chiarelli, Marina Attanasio

Late Breaking Abstract - A living network meta-analysis comparing modalities in the management of pediatric empyema
Clara Fernández elviro (Lausanne, Switzerland), Bryn Longcroft-Harris, Emily Allin, Leire Leache, Kellan Woo, Jeffrey N. Bone, Colcen Pawlik, Jalal Tarabishi, Matthew Carwanto, Roshan A. Ananda, Priyadharshini Ramakrishnan, Tala J Alhejazi, Alyssa Chen, Amin Shariñan, Mohamed M. Shawqi, Marie Wright, Nassr Name

ERS International Congress 2023
DETAILED PROGRAMME
MONDAY 11 SEPTEMBER, 2023
Late Breaking Abstract - Fibrinolytics use in children with pleural empyema
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)

PA2740 Deriving a change score for FEV1 for children with asthma
Nicole Filipow (London, United Kingdom), Stephen Turner, Anne Chang, Helen Petsky, Thomas Frischer, Stanley Szefler, Sanja Stanojevic

PA2741 Response to bronchodilation in children by oscillatory impedance and admittance
Chiara Veneroni (Milano (MI), Italy), Giuliana Ferrante, Laura Venditto, Michele Piazza, Laura Tenero, Marco Zaffanello, Raffaele Della, Pasquale P Pompilio, Giorgio Piacentini

PA2742 Bronchodilator response cut-off point of the FEV0.75 s in asthmatic Tunisian children.
Molk MAALEJ (Sfax, Tunisia), Rim Kammoun, Emna Eleuch, Hana Tabet, Leila Triki, Hela Zouari, Kaouthar Masmoudi

PA2743 Methodological approach of the use of electronic nose in paediatrics: A factibility study
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 Martinez-Sánchez, Hipólito Pérez, Antonio Moreno-Galdó

PA2744 Treatable traits in asthmatic children
Magdalena Voces (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primerose, Marcela Roque, Veronica Giubergia, Veronica Aguerre, Belen Lucero, Gabriela Pelauez, Juan Manuel Fiqueroro

PA2745 Bronchodilator response phenotype in children with moderate to severe asthma exhibits elevated T2 and T1 serum cytokines
Mahmoud Ismael Abdel-Aziz (Amsterdam, Netherlands), Nariman K. A. Metwally, Susanne J. H. Vijverberg, Anne H. Neerincx, Simone Hashimoto, Barbara S Dierdorp, 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

PA2746 Children can be safely discharged on as required salbutamol after episodes of acute wheeze.
Steph Harper (Southampton, United Kingdom), David James, Catherine Crocker, Alison Mcevoy, Amanda Harris, Gary Connott

PA2747 Preliminary observations from an asthma intervention package to improve outcomes for children and young people in inner city Birmingham, UK
Titus Ninan (Solihull (West Midlands), United Kingdom), Teresa Evans, Vipran Vijaya, Susan Frost, Mairead Hitching, Satish Rao

PA2748 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
Amir Hossein Alizadeh Bahnami (Amsterdam, Netherlands), Susanne J.H. Vijverberg, Simone Hashimoto, Christine Wolff, Catarina Almqvist, Lizzan D. Bloomsma, 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, Olaia Sardón-Prado, Mahmoud Ismael Abdel-Aziz, Anke H. Maitland-Van Der Zee

PA2749 Reducing asthma exacerbations after the start of the school year: empowering children and families
Karl Holden (Liverpool, United Kingdom), Lynsey Brown, Vicotria Worrall, Claire Hepworth, Helen Harper, Lucy Gait, Laura Marsh, Andrew Liley, 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 Riihonen, 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
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

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 Ulgen, Sanıye Girit

Under-treated asthma in children – a nationwide secondary care study.
Jon Konradsen (Sollentuna, Sweden), Caroline Stridsman, Øyvind Martinsen, Stina Selberg, Maria Ödling

Correlation between FeNO and asthma control in pediatric patients in a developing country
Daniela Cleves (Bogota, Colombia), Pedro David Vargas Duque, Rannier Ayacucho Cordero, Paula Aguilera Otalvaro, Bethy Camargo, Ricardo Arístizabal Duque, Carlos Rodríguez Martinez

Clinical control of asthma and lung inflammation may impair quality of sleep and life in children and adolescents
Etienne Farah Teixeira De Carvalho (São Paulo (SP), Brazil), Evelin Gomes, Dirceu Costa

NHS Wales National Initiative for Good Asthma Control: Patient-facing Apps for Parents, Children and Adults.
Daniel Rigler (Cardiff, United Kingdom), Julian Horton, Katie Pink, Chris Davies, Grace Moore, Laura Wallis, Simon Barry

Effectiveness of written asthma action plan in improving asthma control in children
Besma Hamdi (Tunis, Tunisia), senda derouiche, Sabrine Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Agnès Hamzaoui

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

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, Elsa Eralp, Claire Hogg, Cordula Koerner-Rettberg, Enrico Lombardi, Natalie Lorent, Vendula Martinu, Lucy Morgan, Kim Nielsen, Heymut Omran, Ugur Ozcelik, Phil Robinson, Sandra Rovira-Amigo, Guillaume Thouvenin, Nicola Ullman, Woof Walker, Panayiotis Yiallouros, Camille Pearse, Bettina Frauchiger, Claudia Kuehn, Nicole Beydon, Philipp Latzin, Jane Lucas

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, Annalisse 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 Schlegendahl, Guillaume Thouvenin, Panayiotics Yiallouros, Claudia Kuehn, Philipp Latzin, Nicole Beydon, Jane Lucas

Evaluating gene-disease relationships in motile ciliopathies: an international ClinGen and BEAT-PCD ERS CRC collaboration.
Suzanne Crowley (Oslo, Norway), William Hankey, Marwa Elmagheeb, Rahma Mani, Maria-Ines Benito, Rasha Soliman, Mafalda De Almeida Gomes, Alexander Ing, Sabri Abdelwahab, Lindsay Worley, Shannon Memulty, Justine Siew, Courtney Lynn Thaxton, Catrina M Loucks, Simon Thomas, Maimoona Zariwala, Margaret Leigh, Deborah Morris-Rosendahl, Ewa Zietkiewicz, Sharon Dell, Ben Gaston, Bernd Dworczak, Robert Hirst, Johanna Raidt, Keith Nykamp, William Hannah, Mahmoud Fassad, Amelia Shoemark, Marie Legendre, Hannah Mitchison

Genotype-phenotype associations in primary ciliary dyskinesia
Eva Sophie Lunde Pedersen (Bern, Switzerland), Myrofora Goutaki, Leonie D Schreck, Jane S Lucas, Claudia E Kuehn

Physical activity in people with primary ciliary dyskinesia
Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Claudia E Kuehn
Association between upper and lower respiratory disease in primary ciliary dyskinesia
Yin Ting Lam (Bern, Switzerland), Jean-François Papon, Mihaela Alexandru, Andreas Anagiotos, Miguel Armengot, Mieke Boon, Andrea Burgess, Doriane Calmes, Suzanne Crowley, Sinan Ahmed. D. Dheyauldeen, Nagehan Emiralioglu, Ela Erdem Erulp, Christine Van Gogh, Eric G. Haarman, Amanda Harris, Isolde Hayn, Sara-Lynn Hool, Bülent Karadag, Céline Kempteneers, Sookyang Kim, Philipp Latzxin, Natalie Lorent, Ugur Ozcelik, Ana Reula, Jobst Roehmel, Panayiotis Yiallouros, Myrofora Goutaki

Fertility counselling in people with primary ciliary dyskinesia
Leoni Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Philippa Jörgler, Katie Dexter, Michele Manion, Sophie Christin-Maître, Nathalie Massin, Bernard Maître, Myrofora Goutaki, Claudia E Kuehni

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

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

A BEAT-PCD consensus statement: a core outcome set for pulmonary disease interventions in primary ciliary dyskinesia

Impact of steroid and hydroxychloroquine treatment on chILD: A tertiary care experience
Beril Ecem Kiraci (Ankara, Turkey), Halime Nayir Buyukcuhin, Nural Kiper, Nagehan Emiralioglu, Ugur Ozcelik, Deniz Dogru Ersoz, Ebru Yalcin

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

Clinical characteristics and outcome of drug induced interstitial lung disease in pediatric population.
Mireia Vilella Sabate (Cambrils (Tarragona), Spain), Jordi Costa Colomer, Isabel Gascon Casaredi, Núria Ferrer Bosch, Maria Cols Roig

Pediatric non-CF bronchiectasis in the Vinnytia region in Ukraine - what can we do better?
Oleksandr Mazulov (Vinnytia, Ukraine), Kate Khromykh, Oksana Tykholaz

Multiple breath washout and imaging to detect early pulmonary toxicity in paediatric cancer patients and survivors: first results of a systematic review
Jakob Usmann (Basel, Switzerland), Christine Schneider, Christa Koenig, Enno Straninger, Maša Žarković, Claudia Kuehni, Christina Schindera

A comparison of management of primary spontaneous pneumothorax in children and adults
Lauren Blake (Cambridge, United Kingdom), Theofilos Polychronakis, Stefan Marciniak

Impact of immunoprophylaxis with palivizumab on respiratory syncytial virus infection in preterm infants less than 35 weeks in Colombian hospitals
Alejandro Colmenares (Bogotá, Colombia), Clara Galvis, Lina Cabreras, Linda Ibata, Juliana Marulanda, Oscar Ovalle, Dionisio Puello, Catherine Rojas, Martha Africano, Adriana Ballesteros, Héctor Posso

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 Riamiery Acuña-Cordero (Bogotá, Colombia), Carlos Rodriguez-Martinez

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

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 Beswisk, 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)

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, Patrício 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, selv-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 Rocio Diaz Rodriguez

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-Communier, 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 Rydwick, 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), Raquel Duarte (Porto, Portugal)
Characteristics of Household Contacts of Rifampin and Multidrug-resistant Tuberculosis Cases at High Risk of Progression to Tuberculosis Disease in Vietnam.
Vicky Chang (Sydney (NSW), Australia), Thu-Anh Nguyen, Binh Nguyen, Nhung Nguyen, Greg Fox

Joseph Gafton (London, United Kingdom), Daniel Pope, Santino Capocci, Janan Jeyatheesan, Rory Medermott

Risk of tuberculosis after endoscopic resection in gastric cancer: nationwide population-based study
Hye Sung Khil (Seoul, Republic of Korea), Sue In Choi, Byung-Keun Kim, Eun Joo Lee, Sang Yeub Lee, Won Jai Jung

Impact of the COVID-19 pandemic on tuberculosis services in a rural area of Senegal
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

Post-TB lung disease: what can be learned from the past
Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luís Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Carla Janela, Natalí André, Paula Raimundo, Teresa Falcão

Development of a prognostic prediction model of death in new tuberculosis patients
Parichat Niyomthong (Phrae, Thailand), Arpakorn Prawan, Wikanda Udomdech, Thanin Chattrapiban

Impaired lung function in South African children with pulmonary tuberculosis
Ingrid Joy Courtney (Cape Town, South Africa), Vita W. Jongen, Ruan Swanepeol, Carl Lombard, Rory Dunbar, Pierre Goussard, Eric Mccollum, H. Simon Schaaf, Megan Palmer, Marieke M. Van Der Zalm

Assessing patient satisfaction with Video-Observed Therapy (VOT) for drug-susceptible tuberculosis during the COVID-19 pandemic.
Sandra Ragheb (Calgary, Canada), Jinell White, Julie Jarand, Dina Fisher, Rachel Lim

Frequency of serious adverse events on therapy with modified fully oral shorter treatment regimens (mSTR) for MDR/RK-TB
Elmira Gurbanova (Baku, Azerbaijan), Natalia Yatskevich, Askar Yedilbayev, Oleksandr Korotych, Arax Hovhannesyan, Maryna Tsyshko, Nastassia Dnka, Alena Skrahina

Does pulmonary tuberculosis differ by gender?
Nemsi Ella (Tunis, Tunisia), Ben Jemia Emma, Chaabi Khoulould, Khedhiri Manel, Ben Attig Yosra, Ben Amar Jihene, Boudaya Sadok, Zaii Haifa, Aouina Hichem

Tuberculosis and HIV – the Lisbon reality
Helena Pires (Almada, Portugal), Joana Carvalho, Joana Diogo, Susana Carreira, Dalila Ferreira, Teresa Mourato, Luís Coelho

Impact of war to treatment of tuberculosis: experience of Kharkiv, Ukraine
Ohla Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Iryna Kalmykova, Hanna Buravel, Svitlana Tiahlo, Tetiana Synenko

Preventive treatment of latent tuberculosis infection: prevalence of adverse events among 23602 patients treated over the last 30 years at Villa Marelli in Milan.
Sarah Elizabeth O'Donnell (Milan, Italy), Gloria Leonardi, Federica Piedepalumbo, Maurizio Ferrarese, Alice Repossi, Marco Mantero, Pierachille Santus, Francesco Blasi, Luigi Ruffo Codecasa

The burden of multi-drug resistant tuberculosis in the era of coronavirus disease 2019 pandemic in Pakistan: A public health threat of global concern
Muhammad Imran (Peshawar, Pakistan), Zafar Iqbal, Sajjad Khan, Khalid Jamal, Azhar Uddin, Shumaila Javaid, Abdul Ghafoor, Muhammad Salman Khan

COVID pandemic and its drawback effects on tuberculosis in vulnerable groups
Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Maria Panescu, Valentina Esanu, Adriana Ioana Sorete-Arbo

Latent tuberculosis infection in healthcare workers – the reality of a Portuguese hospital
Carina Rólo Silvestre (S. João das Lampas, Portugal), Rute Afonso, Sofia Alves, Maria Cavaco, Luis Mateus, Andre Nunes, Ricardo Cordeiro, Natália André, Paula Raimundo, Teresa Falcão, António Domingos

Prevention of tuberculosis among healthcare providers: reality of an endemic country
hanane ikrou (Agadir, Morocco), Sofia Farhat, Nada Boutbagha, Houssam Ennaciri, Houda Moubachir, Hind Serhane

Impact of COVID-19 pandemic on origin of tuberculosis treatment outcome in Greece
Foteini Gkakou (Thessaloniki, Greece), Maria Sionidou, Panagiota Kyreitzi, Athanasios Avramidis, Serafeim-Chrysovalantis Kotoulas, Marija Hadji-Mitrova, Eleni Papadaki, Giorgos Sakalis, Anna Tsakona, Katerina Manika
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 Armingo, Joana Carvalho, Catarina Pissarra, Soledade Estribio, Paula Rosa

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), Graça Coutinho (London, United Kingdom)

RSV as a Cause of Exacerbations of COPD
Dexter Wiseman (London, United Kingdom), Ryan Thwaites, Mairi Macleod, Andrew Ritchie, Lydia Finney, Faisal Kamal, Hasan Shahbakhhti, Ashley Sanchez Sevilia Uruchurtu, Braddy-Green Aaron, James Allinson, Gavin Donaldson, Peter Openshaw, Jadwiga Wziedzica, The Rescuel Investigators

Disruption in typical patterns of seasonality of respiratory viral infections (RVIs)
Martha Purcell (Shoreham by Sea, United Kingdom), Tommaso Morelli, Pedro Rodrigues, Sandy Aitken, Charles Roberts, Jacqueline Nuttall, Anna Freeman, Tristan Clark, Tom Wilkinson

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

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 Warke, Jay Horvat

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 Bruyndoncx, Charles Nuttens, Thao Mai Phuong Tran, Juan Luis Ramirez Agudelo, Caihua Liang, Bradford Gessner, Gernot Rohde

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 Tamam, Daiana Stolz

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

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

INNA-051 pre-exposure prophylaxis in a human influenza infection model
Ruth Tal-Singer (Media, United States), Scott White, Francesca Mercuri, Nicole Kruger, Grant McIachlan, Stephan Mynhardt, Hayley McQuilten, Bruce Miller, Christophe Demaison

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

Medical practices that create risks for the development of antibacterial resistance
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova, Farhod Mukhsinov

Savings potential for antibiotics in respiratory infections: Insights from the European market
Peter Kardos (Frankfurt am Main, Germany), Ludger Klimke, Ernest Kuchel, Ingrid Stelzmüller, Andrzej M Fal, André Gessner
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

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

Predictive factors for a good pulmonary penetration of antibiotics: AntiBiotics dosage in BronchoAlveolar Lavage
Julia Delomez (Neuvillette, France), Alice Henry, Damien Basille, Vincent Jounieaux, Claire Andréjak

Detection of respiratory viruses in patients with aspiration pneumonia: a retrospective study
Daijiro Nabeya (Okinawa, Japan), Takeshi Kinjo, Wakako Arakaki, Wakaki Kami, Hiroe Hoshioka, Naoya Nishiyama, Tomoo Kishaba, Kazuko Yamamoto

Aftershocks caused by viruses
Anna Sárközi (Debrecen, Hungary), Erik Békési, Edit Nagy, Mária Papp, Zsuzsanna Orosz, Ildikó Horváth

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

Predictive factors for a good pulmonary penetration of antibiotics: AntiBiotics dosage in BronchoAlveolar Lavage
Julia Delomez (Neuvillette, France), Alice Henry, Damien Basille, Vincent Jounieaux, Claire Andréjak

Detection of respiratory viruses in patients with aspiration pneumonia: a retrospective study
Daijiro Nabeya (Okinawa, Japan), Takeshi Kinjo, Wakako Arakaki, Wakaki Kami, Hiroe Hoshioka, Naoya Nishiyama, Tomoo Kishaba, Kazuko Yamamoto

Aftershocks caused by viruses
Anna Sárközi (Debrecen, Hungary), Erik Békési, Edit Nagy, Mária Papp, Zsuzsanna Orosz, Ildikó Horváth

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 Ermarkova, Aurelio Sessa

Risk factors for influenza-induced exacerbations and mortality in non-cystic fibrosis bronchiectasis
Hung Yu Huang (Taipei, Taiwan), Po-Chuan Ko, Chun-Hua Wang

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

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

Safety, tolerability, pharmacokinetics(PK) and pharmacodynamics(PD) of HSK31858a novel DPP-1 inhibitor in healthy volunteers phase I clinical trial
Weijie Guan (Guangzhou (Guangdong), China), Jie Hou, Fang Qiong Li, Wei Fang Zeng, Han Mo Liu

Beclomethasone-formoterol vs placebo for chronic cough in bronchiectasis: the FORZA randomised-controlled trial
Tjeerd van der Voer (Amsterdam, Netherlands), Johanna Margaretha De Koning Gans, Gert Jan Braustahl, Angelina Pieters, Johanna Van Den Berg, Rogier Hoek, Lieke Kamphuis, Marleen Bakker, Alain Dubois, Joachim Aerts, Menno Van Der Eerden

Impact of hypertonic agents on the solid’s concentration in patients with bronchiectasis. A post-hoc analysis
Victoria Serrano (vilafranca del penedes, Spain), Héctor Sanz-Fraile, Antoni Torres, Beatriz Herrero-Cortina

Nebulised Mephenixin for prevention of Bronchiectasis Exacerbation
Ifikhar Nadeem (Lode, Cambridge, United Kingdom), Tejas Ingle, Masood Ur Rasool, Noor Mahdi, Syed Atul Munamm, Bobbak Rabiei, Raaga Vijayabarathy, Duncan Grady, Sumita Pai, Dorothy Grogono

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

Pseudomonas aeruginosa eradication (PAE) in bronchiectasis (BE) with oral ciprofloxacin treatment (OC)
Letizia Traversi (Cittiglio, Italy), Maria Teresa Gomez-Martín Martín-Gómez, Daniel Romero, Almudena Felipe, Clara Pons, Antonio Alvarez, Ianiere Gallego, Eva Polverino

**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)

Dipeptidyl peptidase-1 inhibition in bronchiectasis with eosinophilic endotype in the WILLOW trial
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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. Martin, 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 Soyza, Montserrat Vendrell, Pierre Regis-Burgel, Michael R. Loebinger, Katerina Dimakou, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Michal Shteingeb, 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 Faverio

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 Soyza, Montserrat Vendrell, Pierre Regis-Burgel, Michael Loebinger, Katerina Dimakou, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Michal Shteingeb, 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 Digalaki, Sofia Koukidou, Emmanouela Zervou, Aikaterini-Ioanna Sakellaropoulou, Ioannis Roussis, Serafeim Chrysikos, Georgios Illias, Katerina Dimakou

PA2852 Study design of a Phase 2 rollover trial of the novel cathepsin C inhibitor BI 1291583 in patients with bronchiectasis
Michal Shteingeb (Haifa, Israel), Wiebke Sauter, Sanjay H Chotirmall, Pamela J Mchane, 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 (Hernkilon 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 Berndette Sreter (Zagreb, Croatia)
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

Occupational lung cancer: the medico-legal aspect
Asma Aloui (sousse, Tunisia), Zeineb ATHIMNI, Marwa Bouhoulou, Sana Bhiri, Asma Chouchane, Imen Kacem, Maher Maoua, Aicha Brahem, Houda Kalboussi, Olfa El Maalel, Souhail Chatti, Nejib Mrizak

Lung Cancer Awareness in Saudi Arabia: Results of an Interim Analysis
Jaber S. Alqahtani (Dammmam, Saudi Arabia), Bader S. Almqaht, Turki G. Alharbi, Abdulraheem A. Almuntashiri, Mujahid A. Alsalumaini

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

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

REAL-WORLD DATA ON LUNG CANCER PATIENTS CHARACTERISTICS IN NORTHERN SERBIAN PROVINCE OF VOJVODINA
Darijo Bokan (Sremmska Kamenica, Republic of Serbia), Bojan Zaric, Tomi Kovacevic, Goran Stojanovic, Jelena Djekic Malbasa, Ana Milenkovic

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

Sociodemographic and clinical characteristics associated with lung cancer in women
Anna Trojanar (Warszawa, Poland), Magdalena Knetki-Wróblewska, Joanna Domagala-Kulawik

Characteristics of lung cancer in elderly patients.
Ahmed Dhia El Euch (Sfax, Tunisia), Rim Khemakhem, Mounira Kallel, Nessrine Kallel, Rahma Gargouri, Ilhem Yangui, Nedia Moussa, Walid Feki, Najla Bahoul, Samy Kammoun

COPD and lung cancer: Is there a link?
Houda Rous (Ariana, Tunisia), Chirine Moussa, Mahdi Abdennadher, Soumaya Debeche, Nourchene Khalifallah, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Malej

Does lung cancer in patients with COPD differ between women and men? Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagala-Kulawik

COPD occurrence among thousand of patients with lung tumor
Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagala-Kulawik

Lung cancer in COPD patients included in a telemonitoring program (TELEPOC)
Jone Solorzano Egurbide (bilbao, Spain), Eva Taberner Huguet, Mª Pilar Fuentejata Olmos, Mª Ángeles García Carreira, Imanol González Muñoz, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz González Quero, Larraitz Garcia Echeberria

Employment status at time of lung cancer diagnosis: A nationwide study 1994-2018
Morten Borg (Ry, Denmark), Ole Hilberg, Anders Løkke

Is death from lung cancer associated with socioeconomic development? Turkey sample
Güntülü Ak (Eskişehir, Turkey), Selma Metintas, Oguz Han Aydilek, Muzaffer Metintas

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, Eloisa Silva, Ana Barroso

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, Ritke Ibsen, Ole Hilberg, Anders Løkke

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
# 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 Wijsenbeek, 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, Kaymaat Ibra, 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 Murashti, 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 Wypts, 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 Ittrich, 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 Kalafatidis, 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 Jahn, 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 Tsuobuchi (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 Maeyma, Taishi Harada, Hiroshi Wataya, Chiharu Yoshii, Masashi Komori, Yuichi Mizuta, Kazunori Tobino, Eiji Harada, Yoichi Nakanishi, Isamu Okamoto
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

Interstitial lung diseases in Israel
Tzili Hershko (Tel-Aviv, Israel), Sonia Schneer, Michael J. Segel, Ori Wand, Ophir Freund, Amir Bar-Shai, David Shitrit, Liran Levy, Yochai Adir, Avraham Unterman

Idiopathic pulmonary fibrosis treated by Nintedanib: evaluation of safety even in patients treated with anticoagulants
Barbara Ruaro (Trieste, Italy), Riccardo Pozzan, Paola Conforlioni, Metka Kodric, Rossella Cifaldi, Mariangela Barbieri, Selene Lerda, Marco Conforlioni, Elisa Baratella, Francesco Salton

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

Clinical and prognostic significance of p-ANCA antibodies positivity in Idiopathic Pulmonary Fibrosis
Giuseppe Muscato (Catania, Italy), Alessandro Libra, Giuseppe Ielo, Enrico Sciaccia, Stefano Palmucci, Gianluca Sambataro, Carlo Vancheri

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

AirPredict - A mobile app for monitoring personal exposure to Particulate Matter and respiratory outcomes in asthma patients
Michele Atzeni (Padova, Italy), Luca Cosso, Caterina Grisi, Umberto Semenzato, Mariaenrica Tinè, Simonetta Baraldo, Giacomo Cappon, Martina Vettoretti

Causes of failed smoking cessation attempts among active smokers.
fathima bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane

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 Wijsenbeek

Barriers to digital usage for patients with chronic respiratory diseases
Mark Burns (Southampton, United Kingdom), Mark Jones, Tom Havelock

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

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

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

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

Feasibility and Safety of Oxygen Saturation Telemonitoring in Covid-19: an observational study
Jacopo Simonetti (Rome, Italy), Francesco Lombardi, Luca Richeldi
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<td>PA2903</td>
<td>Ballistocardiographic pad for detection of heart rate in respiratory diseases.</td>
<td>Vratislav Sedlák (Hradec Králové 9, Czech Republic), Filip Studnička, Radovan Sedlák</td>
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<td>PA2904</td>
<td>Literature-mining in research of Post-Acute Sequelae of Covid-19</td>
<td>Kristina Piontkovskaya (Stockholm, Sweden), Li Chuan-Xing, Yulian Luo, Michael Runold, Ása Maria Wheelock</td>
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<td>PA2905</td>
<td>Environmental impact of a CF virtual clinic</td>
<td>David Green (Manchester, United Kingdom), Thomas Fitzmaurice, Miles Eason, Freddy Frost, Dilip Nazareth, Martin Walshaw</td>
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<td>PA2906</td>
<td>Access to health care is a human right: a focus group study in COPD patients regarding eHealth accessibility</td>
<td>Esther I. Metting (Groningen, Netherlands)</td>
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<td>PA2907</td>
<td>Development of the iRECHARGE web application (app) for Pulmonary Rehabilitation (PR) in India using Design Thinking Process (DTP)</td>
<td>Shruti Sahasrabudhe (Pune (Maharashtra), India), Rashmi Padhye, Mark W Orme, Dipali Dhamdhere, Suryakant Borade, Meenakshi Bhakare, Nagesh Dhadge, Mahavir Modi, Zahira Ahmed, Andy Barton, Sundeeb Salvi, Sally J Singh</td>
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<td>PA2908</td>
<td>A wearable system for personal air pollution exposure: a walk-about in Milan</td>
<td>Sara Bernasconi (Varese, Italy), Alessandra Angelucci, Andrea Rossi, Andrea Aliverti</td>
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<td>PA2909</td>
<td>The use of digital web-based video training for correct inhalation technique during the COVID-19 pandemic</td>
<td>Maximilian Wollsching-Strobel (Köln, Germany), Uta Butt, Daniel Majorski, Tim Mathes, Friederike Magnet, Doreen Kroppen, Melanie Berger, Sarah Schwarz, Wolfram Windisch</td>
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<td>PA2910</td>
<td>Transforming Irish health care delivery through digital health technology with a global orientation – through the perspective lens of the service user</td>
<td>Tara Byrne (Ballinasloe (County Longford), Ireland), Niall Murray, Mary Mc Donnell-Naughton, Neil Rowan</td>
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<td>PA2911</td>
<td>APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE: ANALYSIS OF ANDROID MARKETPLACE</td>
<td>Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy</td>
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<td>PA2912</td>
<td>QUALITY OF ANDROID APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE</td>
<td>Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy</td>
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<td>PA2913</td>
<td>HHT Virtual Imaging Case Conferences - A New Way Forward for Rare Disease Management</td>
<td>Dilini Vethanayagam (Edmonton (AB), Canada), Richard Owen, Hugo Bertozzi, Darshan Bakshi, Rohan Parab, Ani Mirakhur, Oliver Halliwell, Charlene Fell</td>
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**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 (Forlí, Italy), Davide Biondini (Padova, Italy)

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<td>PA2914</td>
<td>Prediction of mortality in SSc-ILD depends on definition of ILD progression</td>
<td>Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelitskab, Håvard Ffretheim, Imon Barua, Mike Becker, Hilde Bjørkeljekjer, Cathrine Brunborg, Cosimo Bruni, Phuon Phuong Diep, Rucandra Dobroit, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carina Mihai, Øyvind Mollberg, Oliver Distler</td>
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<td>PA2915</td>
<td>Automated quantification and progressive evaluation of SSc-ILD: a perspective from the PROFILE.net ERS Clinical Research Collaboration</td>
<td>Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Simon Van Eyndhoven, Jelle Praet, Dirk Smeeerts, Clio Ribbens, Beatrice André, Renaud Louis</td>
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<td>PA2916</td>
<td>Nutritional parameters in ILD: correlation with functional test and CT</td>
<td>Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Juan Engshelmayer, Florencia Santtia, Ana Downey, Veronica Barcos, Gabriela Legarreta, Silvana Acuña, Alberto Case, Ana Putrule</td>
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<td>LUNG ULTRASONOGRAPHY HELPS RULE OUT INTERSTITIAL LUNG DISEASE IN PATIENTS WITH RHEUMATOID ARTHRITIS.</td>
<td>Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Marcos Rosemfflet, Jonathan Balcazar, Miguel Perandones, Paola Orausclio, Tomas Cazenave, Santiago Rossi, Sebastian Marciano, Emilice Schneeberger, Gustavo Citeta</td>
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<td>PA2918</td>
<td>Forced oscillation technique in progressive pulmonary fibrosis</td>
<td>Anna Denis (Liège, Belgium), Monique Henket, Hadrien Gillet, Laurie Gilta, Fanny Gester, Renaud Louis, Julien Guiot</td>
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Transbronchial lung cryobiopsy for the diagnosis of Fibrotic Hypersensitivity Pneumonitis
Pedro Magalhães Ferreira (Vila Nova de Gaia (District of Porto), Portugal), Francisco Machado, Hélder Novais-Bastos, Natália Melo, André Terras Alexandre, Patrícia Caetano Mota, Susana Guimarães, Conceição Souto-Moura, André Carvalho, António Morais

Pulmonary 18F-FDG up-take refines current risk stratification in non-specific interstitial pneumonitis (NSIP) and predicts response to treatment.
Sharena Ratnakumar (London, United Kingdom), Hannah Torlot, Thida Win, Balaji Ganeshan, Nick Screaton, Toby Maher, Francesco Frioli, Raymond Endozo, Robert Shortman, Ashley Groves, Joanna Porter

Lung ultrasonographic findings and oxygen desaturation as markers of severity in diffuse parenchymal lung diseases
Ahmed Sadaka (Alexandria, Egypt), Asmaa Gomaa, Hoda Abdelgawad, Hanaa Shaifiek, Eman Hatata, Nawaisha Abdelwahab

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

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

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 Parvu, Valer Pompilian, Doina Nițescu, Simona Caraiola, Răzvan Ionescu, Camelia Badea, Larisa Pinte, Cristian-Răsvan Băicuș

Overt and covert airflow limitations in DPLD: a spirometric appraisal
Sayanti Karmakar (KOLKATA, India), Sawayoni Sengupta, Avishek Kar, Debkanya Dey, Shuvam Ghosh, Dipanjan Saha, Arindam Mukherjee, Parthasarathi Bhattacharyya

Evaluation of lung function referral and testing in the context of Interstitial Lung Disease (ILD).
Calvin Apen (Doncaster (South Yorkshire), United Kingdom), Muhammed Khan

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 Kleinheidler, Tzili Hersko, Boaz Tiran, Evgeni Gershman, Yochai Adir, David Shitrit, Amir Bar-Shai

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

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 Mac Carthy

Multidisciplinary collaboration for correct diagnosis and correct treatment in interstitial lung disease associated with connective tissue diseases
Nesrin Ocal (Ankara, Turkey), Emre Tekgöz, Seda Çolak, Ezgi Çimen Güneş, Deniz Doğan, Muhammet Çınar, Yakup Arslan, Cantürlük Taşıçı

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, Jadeson Gnanapragasam

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
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<td>Long-term health-related quality of life in patients on home mechanical ventilation</td>
<td>Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Carla Ribeiro, Cristina Jacome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes</td>
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<td>PA2935</td>
<td>- German Version of the S3-NIV Questionnaire - Translation, Cultural adaptation and Validation of a simple tool for the assessment of home noninvasive ventilation</td>
<td>Daniel Majorski (Cologne, Germany), Axel Kuck, Doreen Kroppen, Sarah Schwarz, Maximilian Wollsching-Strobel, Friederike Magnet, Tim Mathes, Wolfram Windisch</td>
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<td>Perceived health-related benefits and side effects of long-term Home Mechanical Ventilation in an outpatient setting</td>
<td>Diana Amorim (Maia, Portugal), Leonor Roseta, Cristina Jacome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro</td>
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<td>Understanding the outcomes that matter to Patients and what influences these: An International Survey of Patients Treated by Home Mechanical ventilation (HMV)</td>
<td>Judith Livingston (Paris, France), Manuella Schaller, Cecile Delval</td>
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<td>PA2938</td>
<td>Patients' perception of home mechanical ventilation benefits and side effects: does disease play a role?</td>
<td>Leonor Roseta (Calvão – Vagos, Portugal), Diana Amorim, Cristina Jacome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro</td>
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<td>PA2939</td>
<td>Cardiomyopathy as cause of death in Duchenne muscular dystrophy – a longitudinal observational study</td>
<td>Joël Julien Herzig (Zürich, Switzerland), Annabel Lechner, Jacqueline Gabriela Kientsch, Silvia Ulrich, Esther Irene Schwarz</td>
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<td>Survival of multiple sclerosis patients requiring positive airway pressure and/or mechanical insufflation-essufflation.</td>
<td>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 Kaltakas</td>
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<td>PA2941</td>
<td>Determining factors affecting survival in a hospital-based motor neurone disease population on domiciliary NIV</td>
<td>Revati Naran (London, United Kingdom), Swapná Mandal</td>
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<td>Predictors of survival at initiation of non-invasive ventilation in amyotrophic lateral sclerosis</td>
<td>Sophie Madden-Scott (London, United Kingdom), Neeraj Shah, Anne Rossell, 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 Kaltakas</td>
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<td>PA2943</td>
<td>Surgical outcomes in patients on home mechanical ventilation</td>
<td>Jan De Mey (Ghent, Belgium), Lauren Heyman, Luc De Baerdemaecker, Eric Derom</td>
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<td>Successful tracheostomy decannulation in patients with neuromuscular disorders: long-term follow-up</td>
<td>Wonah Choi (Seoul, Republic of Korea), Chan Woong Jang, Han Eol Cho, Miri Suh, Su Hyun Cho, Inyeop Kim, Seong-Woong Kang</td>
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<td>Pulmonary rehabilitation (PR) referral of COPD patients established on home NIV</td>
<td>Léa Razakamanantsao (Paris, France), Tiphaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout</td>
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<td>Home Non Invasive Ventilation (H-NIV) Patient Characteristics and Outcomes: Observational study in a teaching hospital in the UK</td>
<td>Hannah Bardsley (Norwich, United Kingdom), Kashvin Kumar Ram Kumar, Vicky Ershadi, Georgina Siggins, Prasanna Sankaran</td>
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<td>Long-term Noninvasive Ventilation for COPD patients following an exacerbation with acute hypercapnic respiratory failure: a randomized controlled trial</td>
<td>Jon Torgny Rostrup Wilcke (København Ø, Denmark), Caroline Hedsund, Kasper Linde Ankjærgaard, Tine Peick Sonne, Philip Tommesen, Ejvind Frausing Hansen, Helle Frost Andreassen, Ronan M. G. Berg, Jens-Ulrik Stehr Jensen</td>
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<td>PA2948</td>
<td>Prognostic indicators of Non-Invasive Ventilation dependence in Duchenne muscular dystrophy</td>
<td>Kenki Matsumoto (London, United Kingdom), Carrie Hallam, Michael Polkey, Shruthi Konda</td>
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<td>Cognitive impairment in patients non-concordant with domiciliary non-invasive ventilation: A service evaluation</td>
<td>Ashleigh Thorn (London, United Kingdom), Stephanie Mansell, Eleanor Main</td>
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<td>PA2950</td>
<td>Long term survival in ALS patients with Home Tracheostomy Mechanical Ventilation</td>
<td>Mariam García Alfaro (Peralta, Spain), Andrea Ballester Ferriz, Jesús Sancho Chinesta, Santos Ferrer Espinosa, Jaime Signes-Costa Miñana</td>
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**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 Al 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-Martin

**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

Lilia Todoriko (Chernivtsi, Ukraine), Ihor Semianiv, Lilia Todoriko, Marianna Semianiv, Mykola Garas

**PA2959**

Hyoxia-induced metabolic response in obstructive sleep apnoea patients is influenced by sphingomyelin levels

Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Kettlin Veevälä, Ragne Tammi, 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 Systrom

**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, Pauline Van Oort, Jonathan Bannard-Smith, Ben Morton, Ingeborg Welters, Ronan Mcmullan, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler

**PA2963**

Metabolic analysis of exhaled breath can rule out ventilator-associated pneumonia (VAP) in critically ill patients

Waqar Ahmed (Manchester, United Kingdom), Iain White, Pauline 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 Menamara, Jaclyn Smith, Robert Lord

**PA2965**

Comparative analysis of macrolide antibiotics effects on bronchial epithelial cell differentiation in vitro

Arni Asbjarnarson (Reykjavík, Iceland), Fridrik Runar Gardarsson, Jon Petur Joelsson, Bryndis Valdimarsdottir, Ari Jon Arason, Snaevar Sigurdsson, Jennifer Kricker, Thorarinn Gudjonsso
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<td>PA2966</td>
<td>BBS1 and BBS7 gene expression profile in mesothelial cells during hyperosmotic stress.</td>
<td>Rajesh Jagirdar (Larissa, Greece), Ersamia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsious, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotiros Zarogiannis</td>
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<td>miRNA identification in Particles in Exhaled Air (PExA) to study lung diseases</td>
<td>Martina Bonatti (Solna, Sweden), Monika Ezerskyte, Pia Lindberg, Åsa Maria Wheelock</td>
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<td>PA2968</td>
<td>Development and validation of in vitro human inhalation toxicity tests for volatile liquids, mists, and sprays</td>
<td>Jan Markus (Bratislava, Slovakia), Yulia Kaluzhny, George R. Jackson, Paul Kearney, Silvia Letasiova, Mitchell Klausner, Alex Armento</td>
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<td>PA2969</td>
<td>Late Breaking Abstract - Circulating ITGB6 levels are elevated in patients with IPF and reduced following lung transplant</td>
<td>Martin Decaris (South San Francisco, United States), Martin Decaris, Erine Budi, Prerna Kotak, Susan Jacobs, Tushar Desai, Scott Turner</td>
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<td>PA2970</td>
<td>Inhaled cannabis product methods for in vitro toxicological assessment</td>
<td>Emily Wilson (Montreal, Canada), Maddison Arlen, Rui Lui, Ryan Pusiak, Percival Graham, David Eidelman, Cory Harris, Carolyn Baglione</td>
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<td>PA2971</td>
<td>Consensus clustering with missing labels (ccml): a consensus clustering tool for multi-omics integrative prediction in cohorts with unequal sample coverage</td>
<td>Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Hongyan Chen, C. Magnus Sköld, Meng Zhou</td>
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<td>PA2972</td>
<td>Impact of host DNA depletion in human upper respiratory microbiome investigations</td>
<td>Ekanayake Mudivyanselage Udani Anuradha Ekanayake (Hull, United Kingdom), Angela Oates, Simon Hart, Laura Sadofsky</td>
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**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)

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<td>Multiplex protein quantification per cell type in bronchoalveolar lavage cytospin cells using NanoStrings GeoMx</td>
<td>Nicole van der Burg (Lund, Sweden), Martin Ryde, Jaro Ankerst, Leif Bjermer, Ellen Tufvesson</td>
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<td>Metabolomic Profiling in a Mouse Model of Menopause-Associated Asthma.</td>
<td>Julie Ledford (Tucson, United States), William Pederson, Laurie Ellerman, Yan Jin, Haiwei Gu</td>
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<td>PA2975</td>
<td>Rac GTPase dependent cell signaling drives eosinophilic function in severe asthma.</td>
<td>Hugo BERGEREAU (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</td>
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<td>PA2976</td>
<td>Different subtypes of eosinophils between asthma and COPD in bronchial tissue.</td>
<td>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</td>
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<td>PA2977</td>
<td>LSC - 2023 - Eosinophil subtypes affect airway smooth muscle cells migration and ECM-related proliferation in asthma</td>
<td>Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacionyte, Ieva Janulaityte, Greta Seskaite, Kestutis Malakauskas</td>
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<td>PA2978</td>
<td>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</td>
<td>MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Eleni Papakonstantinou, Daiana Stolz</td>
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<td>PA2979</td>
<td>Collagen turnover in airway smooth muscle cells is mediated by WISP-1 differently in asthma and in COPD</td>
<td>MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Charikleia Ntenti, Eleni Papakonstantinou, Daiana Stolz</td>
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<td>PA2980</td>
<td>WISP-1 promotes proliferation and migration of airway smooth muscle cells from patients with asthma and COPD</td>
<td>MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Eleni Papakonstantinou, Daiana Stolz</td>
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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 Sivatsan, Brianna Buonaguro, Kirsten Nagashima, George Scott, Kaitlyn Gayvert, Wei Keat Lim, Dylan Birchard, Li-Hong Ben, Audrey Floc'H, Andrew Murphy, Matthew Sleeman, Jamie Oreno

PA2984 Neuroimmune interactions and neuroplasticity in fatal asthma
Guilherme Dragonas (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 Rådinger

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 Schmudde, 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 Dragonas (Munich, Germany), Pien Goldsteen, Carli Koster, Marina Trombeta 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 Anttit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi

PA2994 Sleep apnea screening questionnaires in heart failure patients
syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Anttit, 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 Anttit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi
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

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

Obstructive sleep apneaa 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 Süderberg

Trajectories of daytime sleepiness post-ischemic stroke and TIA: a propensity score matching study
Sébastien Bailleul (Grenoble CEDEX 9, France), Renaud Tamisier, Bastien Gevaudan, Sarah Alexandre, Olivier Detante, Yves Dauvilliers, Claudio Bassetti, Jean-Louis Pépin, Sébastien Bailly

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 Yelep, Marina Inglés Azorín, Jose Gomez Olivas, Amina Bekki, Sergio Mompean Rodríguez, Rosalía Martínez Pérez, Alberto García Ortega, Miguel Angel Martínez García

Predictors of nocturnal hypoxic burden in patients with severe coronary artery disease
Michael Arzt (Regensburg, Germany), Verka Blagoeva, Maximilian Trum, Philipp Hegner, Bernhard Floechinger, Daniele Camboni, Marcus Creutzenberg, Florian Zeman, Christoph Schmid, Lars S Maier, Maria Tafelmaier

Time spent with saturation below 80% versus 90% as predictive values for cardiovascular risk in patients with obstructive sleep apnoea
Stefan Mihaiucuta (Timisoara (Timis), Romania), Mariela Romina Birza, Stefan Frent, Alina Mirela Popa, Loredana Gligor, Martina Meszaros, Andras Bikov

Pharmacotherapeutic profile of sleep apnaea patients
Stefan Mihaiucuta (Timisoara (Timis), Romania), Mihai Udrescu, Adrian Militaru, Alexandru Topirceanu, Lucretia Udrescu

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 Mascarenno Ponte, John Blaikley, Mahmoud Barakat, Andras Bikov

Impact of a sleep intervention program on anxiety and depression in patients with Chronic Musculoskeletal Pain
Sofia Romero Peralta (Madrid, Spain), Pilar Resano Barrio, Glória Hernando Benito, Esther Solano Pérez, Carlota Coso, Laura Silgado Martínez, Juan Fernando Masa, Sonia López Monzoni, Leticia Alvarez Balado, Maria Esther Viejo Ayuso, Rosa Mediano San Andrés, Maria Castillo García, Olga Mediano

Efficacy of positional therapy in patients with positional obstructive sleep apnoea: a retrospective study to investigate predictive factors in successful adaptation
Angela Bellofiore (Milano (MI), Italy), Federica Bonavoglia, Giulia Pennacchini, Carlo Magnoni, Marco Mantero

Short-term effectiveness of positional obstructive sleep apnoea therapy (SOMNIBEL®): An observational study
Ana Reyes Pardessus Otero (Barcelona, Spain), Paula Pujal Montañá, Inês Podzamczer Valls, Judit Gutiérrez Anguita, Marta Blanco Bejar, Marta Gutiérrez Rouco, Ana Mª Fortuna Gutiérrez, Mercedes Mayos Pérez

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, Safouora Keshtgar

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

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

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 Alejandro, María Parra Jarque, Lorena Delgado Vera-Pinto, Aldara García Sánchez, Irene Cano Pumarega, Eva Mañas Baena

PS-7 in poster area  Session 299  12:30 - 14:00
Poster session: Addressing exacerbations and pneumonia in airway diseases
**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**
Increased risk of severe cardiovascualr events following exacerbations of COPD: a multi-database cohort study
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**
Respiratory specialist visit before admission with a COPD exacerbation may affect management and outcomes.
Ophir Freund (Tel Aviv, Israel), Boaz Tiran, Eyal Kleinhendler, Evgeni Gershman, Avishay Ellis, Amir Bar-Shai

**PA3015**
In-hospital antibiotic use for severe chronic obstructive pulmonary disease exacerbations: a retrospective observational study
Lies Lahousse (Ghent, Belgium), Anna Vanoverschelde, Chloe Van Hoey, Franky Buyle, Nadia Den Blauwen, Pieter Depuydt, Eva Van Braeckel

**PA3016**
FREQUENCY OF OCCURRENCE AND GENE-SEROTYPE CHARACTERISTIC OF STREPTOCOCCUS PNEUMONIAE IN COHORT OF PATIENTS WITH COPD.
Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko

**PA3017**
Predictive factors for the occurrence of COPD exacerbations
Meriam Nemleghi (Ariana, Tunisia), Hela Kamoun, Bochora Karaborni, Hadhemi Rejeb, Dorra Greb, Hajer Abdelghaffar, Ines Akrout, Hela Hassene, Leila Feikih, Hanene Smadhli, Mohamed Lamine Meghdiche

**PA3018**
One-year mortality and readmission rate following hospitalization for acute exacerbation of chronic obstructive pulmonary disease based on the types of acute respiratory failure
Hong-Joon Shin (Gwangju, Republic of Korea), Bo Gun Kho, Young-Ok Na, Jae-Kyeong Lee, Tae-Ok Kim, Yong-Soo Kwon, Yu-II Kim, Sung-Chul Lim

**PA3019**
Tapering courses of oral corticosteroids after hospital admission due to asthma exacerbation
Richard Russell (Leicester, United Kingdom), Meghna Ray, Hamza Yaqub, Anna Murphy

**PA3020**
Inhaled corticosteroid might not affect clinical outcomes of pneumonia in patients with chronic obstructive pulmonary disease
Inso Cho (Wonju, Republic of Korea), Min-Seok Chang, Ji-Ho Lee

**PA3021**
Inhaled versus systemic corticosteroids in COPD exacerbations: a meta-analysis.
Efthymia Papadopoulou (Thessaloniki, Greece), Sulaiman Bin Safar, Ali Khalil, Ran Wang, Konstantinos Kostikas, Stavros Tryfon, Jorgen Vestbo, Alexander G. Mathioudakis

**PA3022**
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
Guohui Fan (Beijing, China), Dingyi Wang, Sinan Wu, Ting Yang

**PA3023**
Systemic inflammation and exacerbations are associated with serum vitamin D levels in a cohort of patients with COPD, group E
Apostolos Sioutas (Athens, Greece), Petra Kristina Jacobson, Hans Lennart Persson

**PA3024**
Validation of an EMR derived algorithm to identify moderate asthma exacerbations in the UK
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**
A prospective study of inhaled therapy prescribing, pMDI technique assessment, and inhaler concordance amongst hospitalised patients with airways disease
Luanne Lai (Middlesbrough, United Kingdom), Bethany Cockerill, Emma Lunn, Reem Abdelgadir, George Antunes

**PA3026**
COPD Patients Admitted to Hospital: A Missed Opportunity to Optimise Care?
Alicia Piwko (London, United Kingdom), Maeve Savage, Alyson Tee, Karina Gukhool, Graine D’Ancona, Amy Dewar

**PA3027**
Interpreting the significance of collagen-IV level changes in bronchoalveolar fluid in acute COPD exacerbation before and after tiotropium bromide treatment
Mariya Kulynych-Miskiv (Galych, Ukraine), Mykola Ostrovskyy, Vasyl Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Kostiantyn Shvets, Alla Zuban, Nadia Korzh, Olga Molodovets, Galyna Korzh

**PA3028**
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
Aman Ahuja (Vellore, India), Manoharalal Gupta, Sanjay Sogani
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, Huiguang Liu, Jianchu Zhang, Xianhua Li, Pinhu Pan, Mengqiu Yi, Lina Cheng, Liang Liu

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

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

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 Brussell, Liam G Heaney, Sandhia Ponnarambil, Gillian Hunter, Andrew W Lindsley, Christopher S Ambrose

Poster session: New frontiers in chronic cough, a1-antitrypsin deficiency, and airway diseases endoscopy

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, Dae 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 Lee, Sook Young Lee, Rae-Sim Park, You Sook Cho, Sang-Heon Kim, Woo-Jung Song

Early cough severity changes over the first 4 weeks of treatment with gefapixant in two phase 3 studies

Surinder S. Birring (London, United Kingdom), Peter Dicpinigaitis, Alyn Morice, Qing Li, Eduardo Urdaneta, George Philip, Carmen La Rosa

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 Whitley, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia

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 Dockery, Maria Belvisi, Michael Wortley, Sara Bonvini, Eric Dubois, Shannon Galgani, Kimberley Holt, Shilpi Sen, Phil Turner, Paul Czyzyk, Paul Marsden, Jacky Smith

Does the type of Inhaler matter in cough variant or cough predominant asthma?

Marta Dąbrowska (Warszawa, Poland), Elżbieta M. Grabczak, Katarzyna Białek-Gosk, Dominika Siwik, Wojciech Apanasiewicz, Rafał Krenke

Patient-reported cough severity in women with chronic cough and stress urinary incontinence treated with gefapixant

Peter Dicpinigaitis (New York, United States), Surinder S. Birring, Linda Cardozo, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman

Association of changes in self-reported cough severity and cough-induced stress urinary incontinence (phase 3b gefapixant trial)

Peter Dicpinigaitis (New York, United States), Surinder S. Birring, Linda Cardozo, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman
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 Dicpinigaitis, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman

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

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 Garcia-Rivero

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

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 Stanou, Linda Fröderberg Roth, Edwurd Humphries, Cristina Gardelli, Mark Birrell, Maria Belvisi

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 Witzenrath, 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

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

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

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

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

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

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, Buetk Onel, Liz Nolff, 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), Justine Devulder (London, United Kingdom)

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

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
Preserved ratio impaired spirometry (PRISm) as a spirometric pattern among Bulgarian asthma patients
Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Plamena Stoimenova

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-II Hwang

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 Enríquez Rodríguez, María Rodríguez Pericacho, Marta Sánchez Zeballos, Angela 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 Maria García Clemente

Documentation of comorbidities, lifestyle factors and other asthma management details during scheduled asthma contacts in primary health care
Jaana Takala (Seinäjoki, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Pinja Ilmarinen, Hannu Kankaanranta

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, Ihem Charfeddine

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

Young asthmatics with exercise-induced bronchospasm have repercussions on cardiac autonomic modulation
Debora Carneiro de Mendonça (Vitória de Santo Antão, Brazil), Glívia Maria Barros Delmondes, Bruno Rafael Vieira Souza Silva, Polynna 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 Correa Júnior, Steve Hunter

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

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, Tomakyo Hoshino

Physical activity, sedentary behaviour and sleep quality of Sri Lankan adults with and without COPD: cross-sectional study

Hypercapnia increases airway resistance in patients with stable chronic obstructive pulmonary disease
Vitalii Kryvenko (Giessen, Germany), Masahiko Shigemura, Werner Seeger, Jacob. I. Sznejder, István Vadász

Differences in the consumption of health resources in patients with COPD exacerbations according to convivence with family members.
Zichen Ji (Madrid, Spain), Katiuska Herminia Liendo Martinez, Stephany Ivonne Briones Alvarado, Cristina Sánchez Fernández, Javier De Miguel-Diez, Luis Puente-Maestu

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

Co-morbidities and frailty in a single practice primary care COPD cohort in UK
Mukesh Singh (Sutton Coldfield (West Midlands), United Kingdom), Ketan Singh

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

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

Comparing Cardiovascular disease pattern among COPD patients with and without bronchiectasis.
Saadia Ashraf (Peshawar, Pakistan), Amber Ashraf, Yasir Intiaz, Rukhsana Anwar, Hanza Asif, Hussain Ahmed
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

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 Advances in sleep breathing disorders
Sophia E. Schiza (Heraklion, Greece)

13:30 Developments in diagnostic imaging
Andrea Aliverti (Milan, Italy)

13:45 Discussion and Q&A
All Speakers

14:00 Break
All Speakers

14:05 Novel therapeutic approaches for COPD
Florence Schleich (Liège, Belgium)

14:20 Alternative models of pulmonary rehabilitation
Thierry Troosters (Leuven, Belgium)

14:35 Discussion and Q&A
All Speakers

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 The role of mucosal immunity of the lung in respiratory infections
Paul G. Thomas (Memphis, United States)
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<th>Time</th>
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<tr>
<td>14:00</td>
<td>The role of microbiome in chronic respiratory diseases: contribution to stability and to exacerbations</td>
<td>Sanjay Haresh Chotirmall (Singapore, Singapore)</td>
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<td>14:15</td>
<td>Non-antibiotic strategies to fight respiratory infections</td>
<td>Christophe CARNOY (LILLE, France)</td>
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<td>14:30</td>
<td>Update on vaccination to preventable respiratory infections</td>
<td>Jessica Rademacher (Hanover, Germany)</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**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:** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancioğlu (Konak, Turkey), Jeffrey Drazen (Waltham, United States)

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<tr>
<td>13:45</td>
<td>Dupilumab for COPD with Type 2 Inflammation Indicated by Eosinophil Counts</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
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<td>14:00</td>
<td>Airway smooth muscle area to predict steroid responsiveness in COPD patients receiving triple therapy (HISTORIC): a randomized, placebo-controlled, double-blind, investigator-initiated trial</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
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<td>14:15</td>
<td>Hydrocortisone in Severe Community-Acquired Pneumonia</td>
<td>Pierre Francois Dequin (Tours Cedex 9, France)</td>
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<td>14:30</td>
<td>Effects of Sotatercept on Haemodynamics and Right Heart Function: Analysis of STELLAR Trial</td>
<td>Marius M. Hoeper (Hannover, Germany)</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
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**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)

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<td>13:45</td>
<td>Aiming for remission in asthma: is this a useful treatment goal?</td>
<td>Johann Christian Virchow (Rostock, Germany)</td>
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<td>14:00</td>
<td>Evolution in GOLD: we cannot ‘see’ ‘C’ anymore and LABA/ICS are gone. Helpful or a hindrance?</td>
<td>Antonio Anzueto (SAN ANTONIO, United States)</td>
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<td>14:15</td>
<td>Chronic rhinosinusitis: how do we diagnose and do we treat with biologics or surgery?</td>
<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
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<td>14:30</td>
<td>Cough drugs and trials: truly novel medicines or is it all a placebo effect?</td>
<td>Marta Dąbrowska (Warszawa, Poland)</td>
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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  It is not always malignant: a revisited systematic approach to diagnose the solitary pulmonary nodule  Torsten Gerriet Blum (Berlin, Germany)

14:00  Determining suspicious pleural findings: update on differential diagnostic strategies for pleural thickening and plaques  Najib M. Rahman (ABINGDON, United Kingdom)

14:15  Modern physiotherapy as an essential component of lung cancer and pleural mesothelioma care  Maria Kouloupoulou (London, United Kingdom)

14:30  Discussion and Q&A  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  Shyamali Dharmage (Carlton Victoria, Australia)

14:00  A mechanistic view into the early-life microenvironment and lung health  Niki Ubags (Epalinges, Switzerland)

14:15  Looking forward: is the lung growth trajectory fixed or can we intervene?  Erik Melén (Stockholm, Sweden)

14:30  Novel biomarkers of impaired lung function in clinical practice  Rosa Faner Canet (Barcelona, Spain)

14:45  Discussion and Q&A  All Speakers
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)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Sarcoidosis: gaps in diagnosis and treatment</td>
<td>Paolo Spagnolo (Padova (PD), Italy)</td>
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<tr>
<td>13:45</td>
<td>Sarcoidosis: when is HRCT not enough and when should PCCT be performed?</td>
<td>Adám Domonkos Tánrnoki (Budapest, Hungary)</td>
<td>3128</td>
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<td>14:00</td>
<td>MR in sarcoidosis: is it reserved for cardiac sarcoidosis/assessment of cardiac involvement?</td>
<td>Jonathan H. Chung (San Diego, United States)</td>
<td>3129</td>
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<tr>
<td>14:15</td>
<td>Is there a role for PET CT in sarcoidosis?</td>
<td>Zsuzsanna Besenyi (Szeged, Hungary)</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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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 pathophysiological 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)

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<th>Time</th>
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<th>Speaker</th>
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<tr>
<td>13:45</td>
<td>The importance of lung-kidney crosstalk in homeostasis and disease</td>
<td>Wolfgang M. Kübler (Berlin, Germany)</td>
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<td>14:00</td>
<td>Cellular and molecular mechanisms of kidney-lung crosstalk in acute lung injury</td>
<td>John Laffey (Galway, Ireland)</td>
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<td>14:15</td>
<td>The endothelial cell in lung-kidney interactions in COPD</td>
<td>Francesca Polverino (Houston, United States)</td>
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<td>14:30</td>
<td>The kidney and interstitial lung disease</td>
<td>Gabriela Riemekasten (Lübeck, Germany)</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</table>
### 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)

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<th>Citation</th>
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<tr>
<td>OA3143</td>
<td>Late Breaking Abstract - Dysanapsis Genetic Risk and Chronic Obstructive Pulmonary Disease Mortality</td>
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<tr>
<td></td>
<td>Leina Kingdom (Montreal, Canada), Catherine Debban, Yohan Bossé, Michael Cho, Qingling Duan, Jamie Engert, Ani Manichaikul, Benjamin M Smith</td>
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<tr>
<td>OA3144</td>
<td>Genetic screening for cerebellar ataxia with neuropathy and bilateral vestibular areflexia syndrome (CANVAS) in patients with chronic cough. Preliminary analysis</td>
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<td>Esther Palones (Barcelona, Spain), Elena Curto Sánchez, Lidia Gonzalez Quereda, Pia Gallano Petit, Luis Querol Gutiérrrez, Federico Bertolletti, Maria Jose Rodriguez Fernandez, Alba Segarra Casas, Astrid Crespo Lessmann</td>
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<tr>
<td>OA3145</td>
<td>Breath metabolomics to monitor the response to CFTR modulators in adults with cystic fibrosis</td>
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<td>Emmanuelle Bardin (Paris, France), Helene Salvator, Camille Roquencourt, Isabelle Sermet-Gaudelus, Dominique Grelen, Philippe Devillier, Stanislas Grassin Delyle</td>
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<tr>
<td>OA3146</td>
<td>Augmentation therapy for severe alpha-1 antitrypsin deficiency improves survival but is decoupled from FEV1 decline</td>
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<td>OA3147</td>
<td>Patients with chronic airway disease: Insights from a sputum proteome analysis</td>
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<td>Stefanie Graeter (Bern, Switzerland), Luigi Capriotti, Anna Schnell, Moritz Saxenhofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Steward, Carlos Roca, Ilka Schulze, Alexander Schaub</td>
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<td>OA3148</td>
<td>Serum YKL-40 as a biomarker for predicting loss of lung function and neutrophilic airway inflammation in asthma, COPD and asthma-COPD overlap</td>
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<td>Yasuhiito Suzuki (Fukushima-City, Japan), Junpei Saito, Mami Rikimaru, Atsuro Fukushima, Tomoyoshi Lee, Ryuki Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Mikako Sato, Natsumi Watanabe, Takaya Kawamata, Ryuichi Togawa, Julia Morimoto, Yuki Sato, Hiroiuki Minemura, Takefumi Nikaido, Naoko Fukushima, Kenya Kanazawa, Yoshinori Tanino, Yoko Shibata</td>
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<tr>
<td>OA3149</td>
<td>Airway extracellular copper concentrations increase with age and are associated with oxidative stress independent of disease state.</td>
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<td>Andreas Frolich (Umeå, Sweden), Rosamund E. Dove, Annelie F. Behndig, Ian S. Mudway, Anders Blomberg</td>
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<tr>
<td>OA3150</td>
<td>A novel mice model investigating the effect of low-dose PM2.5 exposure on lung health</td>
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<td>min feng (Sidney, Australia), Brian Oliver, Hui Chen</td>
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<td>OA3151</td>
<td>Ciliary dyskinesia is not affected by chronic mucus hypersecretion in severe asthma</td>
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<td>Céline Kempeens (Lierre, Belgium), Romane Bonhiver, Noémie Bricmont, Maud Pinotte, Sara Engelskirchen, Catherine Moermans, Doriane Calmes, François Guissard, Lionel Benchimol, Marie-Christine Seghaye, Renaud Louis, Florence Schleich</td>
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<tr>
<td>OA3152</td>
<td>Effect of Mepolizumab on airways remodeling in patients with late-onset severe eosinophilic asthma and fixed obstruction (preliminary data of the MESILICO study)</td>
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<td>Kalliopi Domvri (Thessaloniki, Greece), Ioanna Tsipournou, Petros Bakakos, Nikoleto Rovina, Paschalis Stiropoulos, Athanasios Voulgaris, Konstantinos Katsoulis, Maria Kipourou, Paraskevi Katsaounou, Sofia Karachrysafi, Pinelopi Anastasiadiou, Theodora Papamitsou, Antonia Sioga, Nikolaeta Pasteli, Styliani Papaemmanouil, Angeliki Cheva, Stavros Tryfon, Evangelia Fouska, Despoina Papakosta, Konstantinos Porpodis</td>
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### Brown 3

**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:**
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

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

Empagliflozin attenuates hypoxia-induced pulmonary arterial remodeling via inhibiting NOTCH3 signaling pathway

Celina De Almeida (Taoyuan, Taiwan), Ying-Ju Lai

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 Launmore, Sylvin Marchand-Adam, Hilario Nunes, Edouard Ollier, Jean Pastré, Sèbastien Quetant, Martine Reynaud-Gaubert, Julie Tractel, Sabrina Zeghmar, Laurent Bertolotti, Vincent Cottin

An endothelial cell subtype is linked with altered Rho-kinase (ROCK)-associated pathways in PAH

Rui Benfeitas (Stockholm, Sweden), Fabrizio Facchinetti, Mirco Govoni

Quantitative evaluation of pulmonary arteriolar structural changes in pulmonary arterial hypertension


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, Frédéric Parrot, Marc Humbert, David Montani

Identification of AURKB as a new actor in vascular remodeling in PAH

Sarah-Eve Lemay (Quebec, Canada), Mélanie Sauvagot, Manon Mougin, Reem El Kabbout, Sandra Martineau, Sandra Breuls-Bonnet, Alice Bourgeois, Mabrouka Salem, Charlie Théberge, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet

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

Neuroinflammation mediates cognitive dysfunction in pulmonary hypertension

Ping Yuan (Shanghai, China), Xiaoyi Hu, Lan Wang, Jinming Liu, Yi Wang, Xiaohuan Xia, Jialin Zheng

Discussion and Q&A

All Speakers

Oral presentation: Nursing role in global respiratory health

Chairs: José Miguel dos Santos Castro Padiha (Porto, Portugal), Rui Pedro Marques da Silva (Sobreira – Paredes, Portugal)

Late Breaking Abstract - Preferences for asthma decision-making: Focus groups with low-income and racial and ethnic minority adults in safety-net 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 Brzuzese, 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

Simen Alexander Steindal (Oslo, Norway), Mari O Ohnstad, Kristin Hegdal, Marie-Marie Wallander Karlsen, Hanne Aagaard, Kari Sørensen, Vivi L Christensen, Kristin Hofso, Monica E Kvande, Nina M Kyno, Anne Kathrine Langerud, Brith Andresen, Marie H Larsen
The extent and characterization of underdiagnosis and misclassification of COPD in Sweden
Malin Axelsson (Malmö, Sweden), Helena Backman, Bright I. Nwaru, Caroline Stridsman, Lowie Vanfleteren, Linnea Hedman, Päivi Pirilä, 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
Lindsay Brown (Blessington (Co. Wicklow), Ireland), Fiona Hickey, Omaira Omar, Emmet Mcgrath, Michael P Keane, Cormac Mccarthy

Modifiable factors of uncontrolled asthma – the crucial role of the asthma nurse
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.
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
Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patricio Costa, José Miguel Padilha

A standardized language for respiratory nursing care: mixed method research in Spain. Project awarded by SEPAR
Silvia Arranz Alonso (Madrid, Spain), Sonia Parra Cordero

Existing respiratory nursing curriculum, frameworks, and other documentation relevant to respiratory nursing education: A Scoping Review
Bridget Murray (DUBLIN, Ireland), Shereen Smith, Nicola Roberts, Miguel José Padilha, Andreja Šajnić, Georgia Narsavage, Helle Marie Christensen, Malin Axelsson, Hernández Carme, 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
Andreja Sajnic (Zagreb, Croatia), Georgia Narsavage, Phyllis Murphie, Carme Hernández, Malin Axelsson, José Miguel Padilha, Mariana Paula Rezelj, Carol Stonham, Karen Heslop-Marshall

Discussion and Q&A
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

Late Breaking Abstract - Exploring technology preferences and reliever inhaler use in adults with asthma – survey results with behavioural segmentation analysis
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.
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
Melte Froehichs (Molndal, Sweden), Kristina Andelid, Anders Andersson, Monika Crona, Huiqi Li, Lowie E.G.W. Vanfleteren

Virtual ward (VW) in respiratory medicine - a fleeting premise or a sustainable enterprise?
Sivakamasundari Narayani Ampikaipakan (Norwich, United Kingdom), Claire Beard, Katherine Cooper, Rose Cary, Michael Waters, Mark Pasteur

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 Arbilla-Baizari, Eva Balcells, Joren Buekers, Heleen Demeyer, Anja Frei, Elena Gimeno-Santos, Nicholas S. Hopkinson, Corina De Jong, Niklas Karlsson, Luca Palmerini, Michael I. Polkey, Miro A. Puhani, Roberto Rabinovich, Diego Rodriguez Chiaradia, Robert Rodriguez-Roisin, Pere Toran, Ioannis Vogiatzis, Henrik Watz, Thierry Troosters, Judith García-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 García-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)

Late Breaking Abstract - Efficacy of non-invasive ventilation with expiratory washout in stable COPD patients: A randomised cross-over pilot.

Ruth Sempri (Harbour View (Lower Hutt), New Zealand), Stacey Kung, Alex Semprini, Jessica Fogarin, Sascha Zoellner, Richard Beasley, Louis Kerton, Karen Oldfield, Marjan Doppen, Allie Eathorne, Georgie Hoggarth, Zamir Joya, Sajida Ismatullah

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

The effect of prone position and helmet CPAP on ventilatory pattern

Antonella LoMauro (Milano (MI), Italy), Annalaura Deluca, Paolo Scarpazza, Andrea Aliverti

Telemonitoring of home non-invasive ventilation (NIV) patients: Friend or foe

Clara Biaquies (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

Pixellating ventilation: which signals are required?

Anna Ridges (Heidelberg, Australia), Warren Ruehland, Liam M Hannan, David J Berlowitz, Mark E Howard

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

Hypoxic challenge test during treatment with non-invasive ventilation: a surmountable challenge

Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

Health related quality of life of two phenotypes of COPD patients under home NIV

Tim Raveling (Groningen, Netherlands), Peter Wijkstra, Marieke Duiverman

Benefits of inspiratory muscle training in Myotonic Dystrophy: a pilot study

Charlotte Seijger (Heerenveen, Netherlands), Marieke Duiverman, Peter Wijkstra
Skills workshop: SW6 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)

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<th>Session Title</th>
<th>Speaker</th>
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<tr>
<td>14:30</td>
<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>14:30</td>
<td>Relationship between oxygen uptake and work rate</td>
<td>Paolo Palange (Rome, Italy)</td>
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<tr>
<td>14:30</td>
<td>Anaerobic/lactate threshold</td>
<td>William Stringer (Long Beach, United States)</td>
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<td>14:30</td>
<td>Ventilatory efficiency</td>
<td>J. Alberto Neder (Kingston ON, Canada)</td>
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<td>14:30</td>
<td>Breathing pattern and dynamic hyperinflation</td>
<td>Michele Schaeffer (Leuven, Belgium)</td>
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Skills workshop: SW9 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
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<tr>
<td>14:30</td>
<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>14:30</td>
<td>Performing spirometry</td>
<td>Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)</td>
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<tr>
<td>14:30</td>
<td>Standardised static lung volume measurement using whole-body plethysmography</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
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<tr>
<td>14:30</td>
<td>Measurement of airway resistance and resistance-volume loops using whole-body plethysmography</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<tr>
<td>14:30</td>
<td>Reporting and interpretation of case studies</td>
<td>Gregory King (Sydney (NSW), Australia)</td>
</tr>
</tbody>
</table>
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)

15:52 Case 2 incl. panel discussion and Q&A - Author: H. Liyanage (Sri Lanka)
James D. Chalmers (Dundee (Angus), United Kingdom)

16:14 Case 3 incl. panel discussion and Q&A - Author: K. Vijayasaratha (United Kingdom)
Daiana Stolz (Freiburg, Germany)

16:36 Case 4 incl. panel discussion and Q&A - Author: R. Saleh (Saudi Arabia)
James D. Chalmers (Dundee (Angus), United Kingdom)

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: Arzu Yorgancioğlu (Konak, Turkey), Jeffrey Drazen (Waltham, United States)

Discussants: Anita Simonds (London, United Kingdom), Frits M.E. Franssen (Maastricht, Netherlands)

RCT3211 RCT Abstract - Effects of a digital inhaler on medication adherence and clinical outcomes in primary care asthma patients: a cluster RCT

RCT3212 Usefulness of NIV telemonitoring versus usual follow-up to reduce hypoventilation (eVENT – eHealth and VENTilation - randomized trial)
Arnaud Prigent (Rennes, France), Joëlle Texereau, Claude Schmitz, Cécile Ropars, Jean-Marc Degreep, Marion Teullier, Christian Darne, Franck Lavergne, Capucine Morel-Panzini

RCT3213 Automatic oxygen control during admission with exacerbation of COPD - a multicenter randomised controlled trial
Ejvind Frausing Hansen (Hvidovre, Denmark), Charlotte Sandau, Jens-Ulrik Jensen, Lars Pedersen, Charlotte Suppli Ulrik

RCT3214 Wrap-up by discussant and discussion
Anita Simonds (London, United Kingdom)

RCT Abstract - Minimal versus specialist equipment in the delivery of pulmonary rehabilitation: a non-inferiority RCT
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

RCT3215 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)
**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?  
  Sanjay Haresh Chotirmall (Singapore, Singapore)  
  [3220]

- **15:45** Multiple novel classifications of COPD (subtypes, actiotypes, pre-COPD, early-COPD): are these helpful in offering better care for patients?  
  Shyamali Dharmage (Carlton Victoria, Australia)  
  [3221]

- **16:00** Non-T2 asthma, the unmet need: molecular phenotyping to identify pathways for patient benefit. Are we getting any closer?  
  Richard Costello (Dublin 9, Ireland)  
  [3222]

- **16:15** Treatable traits in bronchiectasis: will they help in bedside treatments for our patients?  
  Clémence Martin (Paris, France)  
  [3223]

- **16:30** Discussion and Q&A  
  All Speakers  
  [3224]

**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)  
  Georgia Hardavella (Athens, Greece)  
  [3225]

- **15:52** Case 2 incl. panel discussion and Q&A - Author: N. A. Villamagua Arias (Spain)  
  Torsten Gerriet Blum (Berlin, Germany)  
  [3226]

- **16:14** Case 3 incl. panel discussion and Q&A - Author: A. Sturm (Switzerland)  
  Georgia Hardavella (Athens, Greece)  
  [3227]

- **16:36** Case 4 incl. panel discussion and Q&A - Author: M. Bordicchia (Italy)  
  Torsten Gerriet Blum (Berlin, Germany)  
  [3228]
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 Access to asthma medication across the life-course: what we have learnt from global data
Luis Garcia-Marcos Alvarez (El Palmar (Murcia), Spain)

15:45 Sub-Saharan Africa: impact of deprivation on respiratory infections and lung health outcomes in chronic respiratory diseases
Refiloe Masekela (Durban, South Africa)

16:00 Disparities in communities: how do we make the equation more equitable?
Wanda Phipatanakul (Hopkintkn, United States)

16:15 Eastern Europe: deprivation in the face of war and access to healthcare
Oleksandr Mazulov (Vinnystia, Ukraine)

16:30 Discussion and Q&A
All Speakers

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 Big data and AI: it is not just about imaging
Özçelik Neslihan (Rize, Turkey)

15:45 Digital health services for respiratory patients in Norway
Paolo Zanaboni (Tromso, Norway)

16:00 Digital tools to promote medication adherence
Job F.M. van Boven (Groningen, Netherlands)

16:15 Use of digital medicine during wartime: Ukrainian experience
Vitalii Poberezhets (Vinnystia, Ukraine)

16:30 Discussion and Q&A
All Speakers

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)

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**15:30**  
**What can we learn from acute virus infections for chronic disease?**  
Peter Openshaw (London, United Kingdom)  

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**15:45**  
**Long-lasting alterations in lung anti-tumour immunity by viral infections**  
Lucia Rodriguez Rodriguez (Liege, Belgium)  

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**16:00**  
**Lung regeneration for inherited interstitial pulmonary fibrosis using a novel combinatorial adeno-associated virus gene therapy**  
Pauline BARDIN (Paris, France)  

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**16:15**  
**Recapitulating morphological and functional characteristics of distal airways in tubular organoids to model post-viral obstructive diseases**  
Isabelle Dupin (Bordeaux, France)  

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**16:30**  
**Discussion and Q&A**  
All Speakers

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**15:30-16:15**  
**INDUSTRY SKILLS LAB WORKSHOP**  
SEE PAGE 1

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**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)

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**15:45**  
**Environmental awareness in respiratory medicine: a clinical and scientific view**  
Lucilla Piccari (Barcelona, Spain)

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**16:00**  
**Communicate your research: reaching the media, the public and how to use social media**  
Leticia Kawano-Dourado (Sao Paulo, Brazil)

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**16:15**  
**How ERS activities can help to shape your career**  
Niki Ubags (Epalinges, Switzerland)

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**16:30**  
**Mina Gaga Lecture**  
Mareike Lehmann (Marburg, Germany)

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**16:45**  
**Discussion and Q&A**  
All Speakers

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**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 Vagheggini (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)
### Early Lung Cancer Detection: From Screening to Diagnosis

#### Oral Presentations: From Lung Cancer Screening to Early Diagnosis

**Session 336**

**Date and Time:** 15:45 - 17:00

**Chair:** Neal Navani (London, United Kingdom), Maria Joana Pereira Catarata (Porto, Portugal)

**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

**Tags:** Thoracic oncology

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**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

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**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 (Zürich, Switzerland), Christian F. Clarenbach, Adrian Kläy, Thomas Radtke, Sarah R. Haile, Noriane A. Sievi, Dario Kohlbrenner

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**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

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**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

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**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-Wolff, Bhavesh Popat, Dumitru Constantin-Teodosiu, Charlotte Bolton, Michael Steiner, Paul Greenhaff

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**OA3257**

**Effects of spray cryotherapy on cough receptors and airway microenvironment in a canine model of chronic bronchitis**

long liang (Shanghai, China), Changhai Wang

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**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

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**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

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**OA3260**

**Pulmonary rehabilitation and physical activity: a step in the right direction? A network meta-analysis**

James Manifield (Nottingham, United Kingdom), Yousuf A Chaudry, Sally J Singh, Tom Ward, Maxine E Whelan, Mark W Orme

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**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

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**OA3262**

**Discussion and Q&A**

All Speakers
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 Prendevick, Amyn 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 Rius 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 Maffeis, 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 Sirofi, Roland Barbante, Edoardo Raffaeli, Angelo Paolo Ciarrocchi, Sara Piciucchi, 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

OA3274 Late Breaking Abstract - Nintedanib for Lymphangioleiomyomatosis: 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, Kyriakos Polatou, Georgia Papadaki, Emmanouil Verykakis, Andriana I Papaioannou, Demosthenes Bouros, Vasiliki Apollonatou, Elvira-Markela Antonogianakou, 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, Takaji Suzuki, Fnu Spoorthi, Yan Ma, Kenjiro Shima, Jennifer Stock, 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, Yoshihisa Inoue, Koki Nakata

OA3278 New diagnostic approaches for lymphangioleiomyomatosis (LAM)
Christoph Lederer (Heidelberg, Germany), Krisztina Guth, Anikó Bohács, Verena Müller, Michael Kreuter

OA3279 Alveolar fibroblast activation and epithelial injury/repair in pulmonary lymphangioleiomyomatosis (LAM)
Vera Krymskaya (Philadelphia, United States), Kseniya Obraztsova, Alexander Mukhiiov, Ryan Rue, Akansha Goel, Apoorva Babu, Michael Morley, Edward Morrisey, Susan Lin, Jillian Evans
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 Boudrin, Stéphane Dominique, Aurélien Justet, Julie Macey, Sylvain Marchand-Adam, Hélène Morisse-Pradier, Hilario Nunes, Spyros Papiris, Julie Traclet, Bruno Crestani, Serge Amsellem, Nadia Nathan, Raphaël Borie, Vincent Cottin

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

Pirfenidone in post-covid19 pulmonary fibrosis (FIBRO-COVID): Phase-II randomized clinical trial (NCT04607928)
Guadalupe Bermudo Peloche (Barcelona, Spain), Belen Del Rio, Vanesa Vicenc-Zygmun, Claudia Valenzuela, Rosalia Laporta, Juan Riguial, Karina Portillo, Paloma Millan, Eva Balcells, Diana Badenes, Santiago Bolivar, 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, Sebastien Videla, Salud Santos-Perez, Anna Ferrer, Ana Montes-Worboys, Patricio Luburich, Maria Molina-Molina

Home spirometry in regular care for patients with pulmonary fibrosis

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)

Late Breaking Abstract - Cardiovascular morbidity and mortality after positive airway pressure (PAP) discontinuation in obstructive sleep apnea (OSA) patients

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, Yüksel Peker

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

Reduction in sympathetic tone in patients with obstructive sleep apnoea: Fiixed is more effective than adapted pressure. A randomised, parallel clinical trial.
Renaud Tamisier (Grenoble, France), Erika Treptow, Sebastien Bailly, Marie Destors, Sebastien Baillieul, Ria Clin, Maelle Guellerin, Audrey Guerreca, Patrick Levy, Jean Louis Pepin

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

Impact of CPAP treatment on cardiovascular outcomes: a Catalan nationwide database analysis.
Jordi de Batlle (Leida, Spain), Esther Gracia-Lavedan, Anna Garcia-Altés, Elisenda Martinez Carbonell, Manuel Sanchez-De-La-Torre, Ferran Barbe

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 Moncusi-Moix, Gerard Torres, Kelly Löffler, 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 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 (Bagnieux, France), David Rudilla, Hélène Pasche, Danielle C Zammit, Pablo Lázaro Y De Mercado, Pedro Landete Rodríguez

### OA3294
**Normalised 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, Óssur Emilsson, Karin Ersson, Mirjam Ljunggren, Josefín 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)**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Tag(s)</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology, Respiratory critical care</td>
<td>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</td>
<td>Clinical</td>
<td>Shailesh Balasaheb Kolekar (Herlev, Denmark), Anne Orholm Nielsen (Gentofte, Denmark)</td>
</tr>
</tbody>
</table>

**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 Verdurt, Jessica Hughes, Jonathan Hewitt, Nick Maskell

**PA3302**
**Impact of fluid overload on pulmonary function in Heart Failure: a cross-sectional study**

**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**
**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 Jiménez Gallardo, Arturo Rodríguez Medina, Alvaro Montañez Orozco, Benigno Valderrábano Salas, Dalía 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.**

**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 Miravitlles

**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**

**Hemothysis: a retrospective analysis in a tertiary hospital of Greece**
Dimitrios Potonos (Ioannina, Greece), Antonio Assiourea, Konstantinos Exarchos, Antigoni Simou, Christina Aggelopoulos, 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**

**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 Suconny, Wadood Parvez, Muhammad Tufail, John Maclay, Jayasekera Geesath, 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, 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 hemothysis in a pulmonary department**
Nemsi Ella (Tunis, Tunisia), Ben Jemai Emna, Chaabi Khouloud, Ben Attig Yosra, Khedhri Manel, Ben Amar Jihene, Boudaya Saddok, Zaibi Haifa, Aouina Hichem

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**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, Khouloud 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
Associations of Pipe and Cigar Use with Cardiopulmonary Outcomes: The NHLBI Pooled Cohort Study

Herb vaporizers are not safe for health. Particles emissions from dry chamomile vaporization
Efthimios Zervas (Patra, Greece), Chara Tsipa, Niki Matsouki, Manos Konstantinidis, Zoe Garciou

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. Guenet

Effect of Second-Hand Tobacco Smoke Exposure on Lung Functions of Children with Chronic Lung Disease
Nagehan Emiralioglu (Ankara, Turkey), Beste Özezen, Dilber Ademhan Tural, Suna Sabuncuoglu, Gözde Girgin, Bircen Sunman, Halime Nayir Buyuksahin, Ismail Guzelkas, Didem Alboga, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper

“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

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, Vasileios Karapetsas, Drosos Tsavlis, Stavros Tryfon

E-Cigarette : New form of smoking in Tunisia
Soumaya Ben Saad (Ariana, Tunisia), Jallouli Nour Lahbib, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritrin

Interrelation between smoking, obesity and surfactant protein-D in patients with acute exacerbation COPD
Olha Shtepa (Dnipro, Ukraine)

Water pipe smoking and Lung cancer, A case control study in Iran
Zahra Hessami (Tehran, Islamic Republic of Iran), Sogol Sobhani, Gholamreza Heydari

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

Pneumotheorax in tobacco and cannabis smokers in the Agadir region
Oussama HALLOUMI (AGADIR, Morocco), Khadija Atmasser, Fatiha Bounoua, Aboubakr Imzil, Abdelkrim Khannous, Younes Essaid, Abdelmajid Oulahbib, Nada Bouthagha, Hanane Ikrou, Sofia Farhat, Houssam Emmaceri, Houda Moubachir, Hind Serhane

Tobacco use among ICU patients with Candida auris infection in COVID 19 referral hospital.
Stamatoloua Tsikrika (Athens, Greece), Asimina Raftopoulou, Vasiliki Nanou, Marina Asmanidou, Theoni Agapitou, Anastasia Kosmidou, Aristea Christou, Eirini Mikrovasili, Evangelos Stefanidis, Gerasimos Margetis, Ioannis Nikolopoulos

Relationship between smoking status and inflammation markers in adolescents.
Khourshibek Tashmetov (Tashkent, Uzbekistan), Naima Ubaydullaeva

Study of smoking behaviour in asthmatic workers
Nidhal Belloumi (Ia 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

Changes in violations at tobacco point of sales between 2015 – 2022 in Istanbul
Elif Daglı (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Tanzer Gezer, Osman Elbek, Punar Ay, Fusun Yıldız, Banu Sälepci, Pınar Bostan

Profile of child labourers in a rural area of West Bengal: A Cross sectional study
Himani Roy (Kolkata, India)

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 Schlünsen, Randi J. Bertelsen, Cecilie Svanes

Effect of tobacco in the non-control of asthma among workers
Nidhal Belloumi (Ia 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
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<td>Sara De Matteis (Cagliari, Italy), Orianne Dumas (Villejuif, France)</td>
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<td>PA3347</td>
<td>Disease-specific mortality related to occupational exposure in Helsinki, Finland</td>
<td>Juuso Jalasto (Helsinki, Finland), Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönnmark, Anssi Sovijärvi, Päivi Piirilä, Paula Kauppi</td>
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<td>PA3338</td>
<td>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</td>
<td>Wigdan Farah (Rochester, United States), Oluwateniayo Ogunsan, Zhen Wang, Yewande Odeyemi</td>
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<td>PA3339</td>
<td>Mortality associated with occupational exposures among people with small airways obstruction</td>
<td>Valentina Quintero Santofimio (London, United Kingdom), Cosetta Minelli, James Potts, Roel Vermeulen, Hans Kromhout, Ben Knox-Brown, Johanna Feary, Andre F.S Amaral</td>
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<td>PA3340</td>
<td>Household use of cleaning products and asthma control</td>
<td>Emilie PACHECO DA SILVA (Villejuif, France), Raphaëlle Varraso, Anne-Marine Lenzotti, Léopold Fezeu, Guillaume Sit, Pilar Galan, Serge Hereberg, Mathilde Touvier, Christophe Paris, Orianne Dumas, Nicole Le Moual</td>
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<td>PA3341</td>
<td>Household use of irritants and sprayed cleaning products and asthma endotypes</td>
<td>Emilie PACHECO DA SILVA (Villejuif, France), Rachel Nadif, Eddy Dohoukpe, Laurent Orsi, Joane Quentin, Raphaëlle Varraso, Valérie Siroux, Orianne Dumas, Nicole Le Moual</td>
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<td>PA3342</td>
<td>The association of current asthma and exacerbation of asthma with using cleaning, disinfecting, and medical products in healthcare</td>
<td>Paul K. Henneberger (Morgantown, United States), Steven M. Rollins, Michael J. Humann, Xiaoming Liang, Feng-Chiao Su, Mohammed A. Virji</td>
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<td>PA3343</td>
<td>Assessment of small airways by impulse oscillometry in hospital cleaning staff</td>
<td>Bilun Gemicioglu (Istanbul, Turkey), Betül Gültekin, Nejdiye Gündoğdu, Ilgım Vardaloglu, Kevser Sak</td>
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<td>Long-term clinical outcome of irritant-induced asthma</td>
<td>Hille Suojalehto (Helsinki, Finland), Jussi Lanto, Irmeli Lindtröm</td>
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<td>PA3345</td>
<td>Occupational exposures to irritants and asthma in the CONSTANCES Cohort</td>
<td>Orianne 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 Piroget, Nicole Le Moual</td>
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<td>PA3346</td>
<td>Zintec coated steel, a cause of occupational asthma in welders</td>
<td>Vicky moore (Coventry, United Kingdom), Gareth Walters, Alastair Robertson, Sherwood Burge</td>
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<td>PA3347</td>
<td>Thymic stromal lymphopoietin contributes to ozone-induced pulmonary responses in mice</td>
<td>Hiroki Tashiro (Saga, Japan), Yuki Kurihara, Koichiro Takahashi, Yoshie Konomi, Shinya Kimura, Sueoka-Aragane Naoko</td>
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<td>PA3348</td>
<td>Asthma control in severe asthma and occupational exposures to inhaled asthmagens</td>
<td>Gareth Walters (Birmingham (West Midlands), United Kingdom), Christopher Reilly, Nicole Le Moual, Christopher Huntley, Hanan Hussein, Thirumala Krishna, Adel Mansur</td>
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<td>PA3349</td>
<td>Occupational exposures and asthma control among adults from Northern Finland</td>
<td>Maritta S. Jaakkola (Oulu, Finland), Penpatra Sribaiboonkij, Henny Hyrkäs-Palmu, Jouni J.K. Jaakkola</td>
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<td>PA3350</td>
<td>Respiratory health among operators working in polymer additive manufacturing</td>
<td>Anna-Carin Olin (Göteborg, Sweden), Ann-Charlotte Ålmanstrand, Anna Bredberg, Gunilla Runström, Helen Karlsson, Maria Assenhöj, Hatice Koca Akdeve, Håkan Tinnerberg</td>
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<td>PA3351</td>
<td>Long-term indoor shooting exposure of special police forces induces bronchitic reactions – the Berlin Shooting Range Study</td>
<td>Christian Witt (Berlin, Germany), Rudolf Tauber, Dennis Nowak, Andrew Coats, Uta Liebers</td>
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<td>PA3353</td>
<td>COPD in a sample of working population</td>
<td>Jordan Minov (Skopje, North Macedonia), Sasho Stoleski, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska</td>
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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, Courntey 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, Dimitrina Miteva, Guergana Petrova

**PA3373**
Evaluation of the impact of cystic fibrosis modifer 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

**PA3375**
Correlations between in-vitro and clinical drug response to CFTR modulators
Felix Ratjen (Toronto (ON), Canada), Sanja Stanovjevic, 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 Todic, Ivona Markelić, Andrea Vukčić Lugac, Duška Tjedić-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 Chedevetere, 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 (Timișoara, Romania), Diana Popin, Liviu Laurentiu Pop, Ioana Mihaia Ciucu

**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 Pavia, 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
Alesandra Žver (Ljubljana, Slovenia), Jasna Rodman Berlot, Darja Šmigoc Schweiger, Malena Aldeco, Dušanka Lepej, Marina Praprotnik, Gaja Setnikar Kimovec, Saša Setina 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 Sadas, Eitan Kerem, Malena Cohen-Cymerknoh, Oded Breuer
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<td>PA3384</td>
<td>CFTR-modulator therapy effect assessed by CT and MBW in infants and toddlers with CF</td>
<td>Rikke Sandvik (Copenhagen, Denmark), Yuxin Chen, Marianne Skov, Frederik Buchvald, Lotte Borgwardt, Tacija Pressler, Harm Tiddens, Kim Nielsen</td>
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<td>PA3385</td>
<td>Possible founder effect and prevalence of the p.Cys1400Ter pathogenic CFTR mutation in Cyprus</td>
<td>Pinelopi Anagnostopoulou (Nicosia, Cyprus), Pavlos Fanis, Panayiotis Kouis, Phivos Ioannou, Constantina Costi, Andreas Matthaiou, Tonia Adamidi, Leonidas Phylaktou, Vassos Neocleous, Panayiotis Yiallourou</td>
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<td>PA3386</td>
<td>Late Breaking Abstract - Infertility among adults with primary ciliary dyskinesia</td>
<td>Leonie Maria Schreck (Bern, Switzerland), Eva Sophie Luide Pedersen, Yin Ting Lam, Katie Dexter, Michele Manion, Sophie Christin-Maître, Nathalie Massin, Bernard Maître, Myrofora Goutaki, Claudia E Kuehni</td>
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<td>PA3387</td>
<td>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</td>
<td>Tamar Bakhtadze (Batumi, Georgia), Vakhtang Beridze, Veriko Takidze, Miranda Shervashidze</td>
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**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

**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)

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<td>PA3388</td>
<td>Difference in diagnostic accuracy of several respiratory muscle assessments to predict weaning outcomes: sensitivity analyses (SA) of a systematic review and meta-analysis</td>
<td>Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Jan Verbakel, Yasir Qaiser Choudhari, Débora Ribeiro Campos, Greet Hermans, Rik Gosselink, Daniel Langer</td>
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<td>PA3389</td>
<td>Inspiratory effort and activation of extraplethragmatic inspiratory muscles in a difficult to wean (DTW) patient during different breathing conditions.</td>
<td>Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Beatrix Clerckx, Jan Muller, Greet Hermans, Rik Gosselink, Daniel Langer</td>
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<td>PA3390</td>
<td>Investigation of psychometric properties of De-Morton Mobility Index in the intensive care survivors</td>
<td>Büsra Turgut (Izmir, Turkey), Ilknur Naz, Ozlem Edipoglu, Cenk Kirakh</td>
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<td>PA3391</td>
<td>Tissue oxygen saturation of quadriceps muscle for critically ill patients receiving mechanical ventilation</td>
<td>Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Ryuji Sugiyama, Yusuke Nagae, Yuichi Tawara, Masashi Shiraishi, Yuji Higashimoto, Hironori Shigeoka</td>
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<td>PA3392</td>
<td>Investigation of the relationship between respiratory muscle strength and endurance capacity in liver cirrhosis: a pilot study</td>
<td>Bilge Taşkın (Ankara, Turkey), Naciye Vardar-Yağlı, Melda Saglam, Onur Keskin, Ahmet Bülent Doğrul</td>
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<td>PA3393</td>
<td>Relationship between respiratory muscle strength and functional capacity in patients undergoing oncological abdominal surgery</td>
<td>Fatma Rümeysa Kasap (Ankara, Turkey), Naciye Vardar-Yağlı, Melda Saglam, Deniz Inal Ince, Ebru Calik Kutukcu, Derya Karakoc, Erhan Hamaloglu</td>
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<td>PA3394</td>
<td>National observational study of first mobilization after cardiac surgery</td>
<td>Elisabeth Westerdahl (Örebro, Sweden), Johanna Lilliecrona, Monika Fagevik Olsén</td>
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<td>PA3395</td>
<td>Impact of cancer treatment on physical performance in early-stage non-small cell lung cancer</td>
<td>Kirsten Quadflieg (Hasselt, Belgium), Eva Arents, Sarah Haevevoets, Fien Hermans, Maarten Criel, Marc Daenen, David Rutens, Michiel Thomeer, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Eric Derom, Heleen Demeyer, Chris Burtin</td>
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<td>PA3396</td>
<td>Symptoms experienced by people with lung, head and neck cancer during an exercise training program delivered as a complementary treatment to usual care</td>
<td>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</td>
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<td>PA3397</td>
<td>Objectively measured physical activity and clinical correlates after pulmonary embolism</td>
<td>Stacey Haukeland-Parker (Moss, Norway), Oyvind Jervan, Walied Ghanima, Martijn A. Spruit, Mazdak Tavoly, Jostein Gleditsch, Knut Stavem, Hege Holm Johannessen</td>
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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 Yaglı, 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 Kouloupoulou (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 (Edinburgh), 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 disease, 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

PA3407 Breath of Health: Spectroscopy Breath Test for the Detection of SARS-CoV-2
Dan Padawer (Jerusalem, Israel), Mutaz Karameh, 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 COVID-19-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 Zuí Moreno (Lleida, Spain), Faty B.A. Seck-Mboup, Sally Santistevé, Maria Aguilá, 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, Peiyuan 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 Reychler
PA3413 Omicron BA.5 - 5 days of isolation during hospital admission, is it enough?  
Ana Rita Ribeiro ( Ansião, Portugal), Catia Sarrafa, Marta Domingos, Daniela Louro, Domítilia Faria

PA3414 Risk factors for COVID-19: A test-negative case-control study  
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yingvar Tveten, Harald Reiso, Carina Thilenes, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Møller Føll

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 Lian

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 Risk factors for COVID-19: A test-negative case-control study  
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yingvar Tveten, Harald Reiso, Carina Thilenes, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Møller Føll

PA3419 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 Lian

PA3420 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

PA3421 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

PA3422 Risk factors for COVID-19: A test-negative case-control study  
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yingvar Tveten, Harald Reiso, Carina Thilenes, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Møller Føll

PA3423 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 Lian

PA3424 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

PA3425 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

PA3426 Risk factors for COVID-19: A test-negative case-control study  
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yingvar Tveten, Harald Reiso, Carina Thilenes, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Møller Føll

PA3427 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 Lian

PA3428 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

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 : Nick Maskell (Bristol (Avon), United Kingdom), Valentina Pinelli (Sarzana, Italy)
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 Thanthitaweewat (Bangkok, Thailand), Jitanong Sootlek

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 Mohamad Noor

Getting the basics right. Optimal catheter size for the pleurodesis of recurrent malignant pleural effusions

Ultrasonic Elastography-guided Pleural Biopsy for the Diagnosis of Pleural Effusion, An Observational Prospective Multicentric Study
Mingming Deng (Beijing, China), Gang Hou

Cell block in malignant pleural fluids- a safe tool in the evaluation of histopathological predictive factors.
Daniela Xhemalaj (Tirana, Albania), Fatmir Caushi, Ilir Skendult, Jonida Tula, Elona Hysenbellit, Jolanda Nikolla, Elvisa Kozma, Elona Hila, Silvia Bala

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 Joncheere, Tom Richart, Kristianna Nachaerts, Veereur Surmont, Jan P. Van Meerbeeck, Kevin Lamote

Cutting-edge tools for lung cancer-related pleural effusion detection
Tan Shu Feng (Ipoh, Malaysia), Ummi Nadira Daut, Jamalul Azizi Bin Abdul Rahman, Mohammad Zulkarnain Bidin, Siti Hajar Binti Umar

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

Patient-derived organoids of malignant pleural mesothelioma
Francesca Gonelli (Ancona, Italy), Luca Volpini, Federica Monaco, Marco Tomasetti, Francesca Barbisan, Gaia Goteri, Lory Santarelli, Lina Zuccatosta, Federico Mei

Primary cilium associated BBSome gene expression during inflammatory stress in mesothelial cells and primary mesothelioma cells.
Erasmina Rouka (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsiou, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotiros Zarogiannis

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, Beibej Wang, Adan Pinto Fernandez, Xuan Yao, Elie Antoun, Simeon Draganov, Tao Dong, Najib M Rahman

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
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<th>PA3443</th>
<th>Clinical characteristics of pleural effusion with exudative and transudative borderline properties</th>
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<td>Akiko Sano (Osaka, Japan), Hiroyuki Sano, Osamu Nishiyama, Yuji Tohda, Hisako Matsumoto</td>
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<th>PA3444</th>
<th>The continued burden of pleural mesothelioma: a review of 10 years experience at this hospital Trust</th>
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<td>Qasim Gohir (Telford, United Kingdom), Julia Mcadam, Emma Crawford, Olivia Bosher, Muhammad Saleem, Koottalai Srinivasan, Harmesh Moudgil</td>
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<th>PA3445</th>
<th>Malignant pleural mesothelioma. Description of 70 cases in the last decade.</th>
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<td>Fernando García Prieto (Getafe, Spain), Sara Calero Pardo, María Teresa Rio Ramirez, Cristina Matías López, Jose Maria Diaz García, Beatriz Raboso Moreno, Araceli Abad Fernandez</td>
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**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 (Práha 10, Czech Republic), Thomas Skovhus Prior (Égå, Denmark)

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<th>PA3446</th>
<th>Trends in lung transplantation (LTX) in Spain among patients suffering or not from IPF (2016 - 2020)</th>
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<td>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 Diez</td>
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<th>PA3447</th>
<th>Dyspnea scale and 1-min sit-to-stand test can predict frailty status in interstitial lung disease patients</th>
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<td>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</td>
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<th>PA3448</th>
<th>Combined scores from cardiopulmonary exercise tests can predict mortality in patients with interstitial lung disease</th>
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<td>Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng</td>
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<th>PA3449</th>
<th>Lung dysbiosis index as a biomarker for interstitial lung disease</th>
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<td>Kristel Svaland Knudsen (Bergen, Norway), Rune Nielsen, Xenia Roda, Gunnar Reksten Husebø, Andreu Paytuvi, Walter Sanseverino, Sverre Lehmann, Tomas Mikal Eagan</td>
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<th>PA3450</th>
<th>Antacid and patient survival in idiopathic pulmonary fibrosis</th>
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<td>Jin-Young Huh (, Republic of Korea), Jin Woo Song</td>
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<th>PA3451</th>
<th>Investigation of pepsin levels in bronchial lavage in patients with interstitial lung disease and chronic cough</th>
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<td>Selen Ala (Samsun, Turkey), Nurhan Koksal, Bahattin Avci, Tibel Tuna, Yusuf Taha Gullu</td>
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<th>PA3452</th>
<th>The eating and drinking experience in patients with IPF: a qualitative study</th>
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<td>(,), Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson</td>
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<th>PA3453</th>
<th>NUTRITIONAL STATUS IN IDIOPATHIC PULMONARY FIBROSIS</th>
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<td>Esther Sánchez Alvarez (Málaga, Spain), Eva B. Cabrera Cesar, Rocío Fernández Jiménez, Francisco Espíndola Hernández, José Manuel García Almeida, José Luis Velasco Garrido</td>
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<th>PA3454</th>
<th>Co-designing a Core Outcome Set for and with patients with Pulmonary Fibrosis (COCOS-IPF project): a joint patient-professional effort</th>
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<th>PA3455</th>
<th>Trajectories of health-related quality of life (HRQL) in patients with idiopathic pulmonary fibrosis (IPF)</th>
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<td></td>
<td>Amy Olson (Ridgefield, United States), Jamie L Todd, Laurie D Snyder, Peide Li, Megan L Neely</td>
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<th>PA3456</th>
<th>The utility of EXACT®, a patient-reported outcome instrument, for idiopathic pulmonary fibrosis-related cough</th>
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<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Thomas Sciascia, Toby Maher, Philip L. Molyneaux</td>
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<th>PA3457</th>
<th>Cough monitoring and quality of life in patients with interstitial lung diseases measured by a smartphone application-based technique</th>
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<td>Byoung Soo Kwon (Seoul, Republic of Korea), Dayeon Han, Catherine Song, Jiyoung Jung, Jong Sun Park</td>
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<th>PA3458</th>
<th>Characteristics of idiopathic pulmonary fibrosis-associated cough: a case-control study</th>
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<td>Eeva Saari (Kuopio, Finland), Minna Mononen, Hannele Hasala, Anne Läätä, Johanna Kaulamo, Hanna Nurmi, Riitta Kaartenaho, Minna Purokivi, Heikki O Koskela</td>
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<td>Effect of BI 1015550, a preferential PDE4B inhibitor, on FEV1/FVC ratio in IPF</td>
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<td>The extent of emphysema plays a role in morbidity-mortality in patients with CPFE and IPF</td>
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<td>Comparison of emphysematous COPD patients with or without Combined Pulmonary Fibrosis and Emphysema (CPFE)</td>
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<td>PA3463</td>
<td>Win ratio approach to assessing the effect of nintedanib on a hierarchical composite endpoint in patients with progressive pulmonary fibrosis</td>
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<td>PA3464</td>
<td>Relevance of the systematic sleep study on idiopathic pulmonary fibrosis (IPF)</td>
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<td>PA3465</td>
<td>Impact of air pollution on survival in idiopathic pulmonary fibrosis according to the MUC5B polymorphism</td>
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### 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  
**Tag(s):** Clinical  
**Chairs:** Diego Castillo Villegas (Barcelona, Spain), Fabio Arimura (São Paulo (SP), Brazil)

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<th>Poster</th>
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<td>PA3466</td>
<td>PF-ILD and PF criteria as predictors for mortality in RA-ILD</td>
<td>Phuong Phuong Diep (Oslo, Norway), Emily Langballe, Asad Chaudhary, Torhild Garen, Are Martin Holm, Henrik Mangseth, Øyvind Mollberg, Anna-Maria Hoffmann-Vold, Michael T Durham</td>
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<td>PA3467</td>
<td>RA-ILD – new insights into disease burden from an international patient survey</td>
<td>Michael Kreuter (Heidelberg, Germany), Katerina Antoniou, Jeroume Avouac, Elisabeth Bendstrup, Graham Brown(+), Ivan Castellvi, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieue, 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</td>
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<td>PA3468</td>
<td>Screening for ILD in RA: a survey of 1132 patients with RA</td>
<td>Anna Maria Hoffmann-Vold (Oslo, Norway), Katerina Antoniou, Jerome Avouac, Elisabeth Bendstrup, Graham Brown, Ivan Castellvi, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieue, 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 Wijsenbeek, Michael Kreuter</td>
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<td>PA3469</td>
<td>Interstitial lung disease in connective tissue disease: data from an Italian Multidisciplinary Unit</td>
<td>Alberto Bracciali (Prato, Italy), Sara Torracchi, Elisabetta Rosi, Matteo Drigo, Rubina Giulia Girolamo, Francesco Bonomi, Federico Lavorini, Serena Guiducci, Sara Tomassetti</td>
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<td>PA3470</td>
<td>Clinical score composite of DLCO, mMRC, and 6-minute walking distance provides prognostic value in patients with fibrilotic lung disease: A Prospective observational Study</td>
<td>Pin-Kuei Fu (Taichung, Taiwan), Yu-Wan Liao</td>
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<td>PA3471</td>
<td>Risk factors for SSc-ILD progression using the new PPF guideline and INBUILD PF-ILD criteria</td>
<td>Oliver Distler (Zurich, Switzerland), Anna-Maria Hoffmann-Vold, Liubov Petelyska, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkvikjær, Cathrine Brunborg, Cosmino Bruni, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midvinedt, Carima Mihai, Øyvind Molberg</td>
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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 Samaranayaka, 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 (Zürich, Switzerland), Jérôme Avouac, Anna-Maria Hoffmann-Vold, Vanessa Smith, Gerrit Toenges, Margarida Alves, Masataka Kuvana

PA3475 The Feasibility of Home Spirometry and Oximetry Monitoring In Patients With Interstitial Lung Disease
Wan Lin Ng (Dublin, Ireland), Anja Schweikert, Rebecca Burton, 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 Reiseter, Ragnar Gunnarsson, Øyvind Palm, Torhild Garen, Øyvind Midttvedt, Øyvind Molberg, Trond Mogens Aalokken, Michael Thomas Durheim, Oliver Distler, Anna-Maria Hoffmann-Vold

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

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 Engelmayer (Ciudad Autónoma Buenos Aires, Argentina), Silvia Quadrillei, Norma Naval, Patricia Aruj, Viviana Moyano, Adrian Gaser, Maria Laura Alberti, Santiago Auteri, Soledad Altube, Javier Abdala, Brenda Varela, Maria Otola, Lillian Caponti, Gabriela Tabaj, Luciana Molinari, Federico Zenon, Eugenia Perticone, Joaquin Maritano, Marcela Usandivaras, Fabian Caro, Matias Castro, Beatriz Gil, Fernando Piumatti, Javier Sebastián, Diana Lancellotti, Federico Campins, Diego Goffredo, Antonella Gamarray, Gabriela Manonelles, Jorge Garcia Gonzalez, German Arce, Raul Insanti, Silvia Del Valle Escotin, Paula Gonzalez, Francisco Paulin, Florencia Vivero

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
Syazaatul Syakirin Sirol Aflah (Kuala Lumpur, Malaysia), Noraisaah Sulaiman, Mohd Syahin Shahira Lilah, Ming Yi Khoo, Wooi Leong Leow

PA3482 The natural history of interstitial pneumonias with autoimmune features compared to connective tissue disease-associated interstitial lung disease – prospective single-centre study preliminary results
Ewa Miadlikowska (Łódź, Poland), Joanna Milkowska-Dymanowska, Adam Jerzy Białas, Wojciech Jerzy Piotrowski

PA3483 Late Breaking Abstract - AI-powered decision support helps pulmonologists to diagnose ILD more accurately.
Elliott Bussell (Cambridge, United Kingdom), Rohit Batta, Elin Rosendahl, Muhunthan Thillai, Alessandro Ruggiero, Philip Molyneaux, Toby Maher

PA3484 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 Raisner

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
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

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

Improved survival after 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, Colin Mccabe, Chinthaka Samaranayake, Thomas Mason, Elisabetta Renzoni, Athol Wells, John Wort

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

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 Rodriguez Chiaradia, Clara Martin Ontiyuelo, Manuel Lopez Meseguer, Pietro Nardelli, Fernanda Hernandez Gonzales, Jesus Ribas, Adelaia Bosacoma Armora, Xavier Pomares Amigo, Salud Santos Perez, Maria Molina Molina, Jacobo Sellares Torres, Farbod N Rahaghi, Raul San Jose Estepar, Joan Albert Barberá

Predicting Pulmonary Pharmacokinetics of Inhaled Liposomal Treprostinil (L606) and Treprostinil Solution in Healthy Adult
Pei Kan (Taipei, Taiwan), Ko-Jie Chen

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

Artificial intelligence to detect pulmonary hypertension in idiopathic pulmonary fibrosis: Study design
Laura Price (London, United Kingdom), Alexander Arvanitaki, Gerhard Paul Diller, Bhashkar Mukherjee, Alexandra Lawrence, Vasilis Kouranos, Thomas Semple, Wei Li, Natali Chung, Phillip Marino, Surinder Birring, Colin Mccabe, Michael Gatzoulis, John Wort

Use of pulmonary vasodilator therapy in anti-synthetase syndrome-associated pulmonary hypertension
Thomas Mason (London, United Kingdom), Chinthaka Samaranayake, Colin Mccabe, Kostas Dimopoulos, Vasilis Kouranos, John Wort, Laura Price

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, Chi Hou, Jian Wang

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, Jiming Liu, Ping Yuan

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), Víjil Rahulan, Moiz Lalani, Ovais Tisekar, Samuel Priyaranjan, Prabhath Dutta, Sonali Arora, Sandeep Attavar

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, Yasuhiro Yamato, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh

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 Barberá
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

Severity of pulmonary hypertension in lung disease: impact of the 2022 guidelines on the REHAR registry population

Diego Rodriguez Chiaradia (Barcelona, Spain), Lucilla Piccari, Marta Arjona, Virginia Pérez-González, Isabel Blanco, Gregorio Pérez-Peña, Juan Antonio Domingo, Roberto Del Pozo, Ernest Sala, Raquel López, Xavier Pomares, Amaya Martínez, Cristina Sabater, Alberto García, Agueda Aurennetxe, Leyre Chasco, Salud Santos, Andrés Tenes, Maria Asunción Nieto, Luis Jara-Palomares, Diego Rodriguez

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

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 Sutharalingam

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 Pozzan, Stefano Tavano, Chiara Bozzi, Selene Lerda, Marco Confalonieri, Francesco Salton

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

RELATIONSHIP BETWEEN MATUREN BIRTH AND RESPITATORY 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 Villarroel, Álvaro Campos Cavalcanti Maciel, Elizabel De S. Ramalho Viana

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

Prevalence of interstitial lung disease (ILD) in symptomatic individuals with normal spirometry in primary care

Suhani Patel (London, United Kingdom), Anthony Sunjaya, Ethar El-Emir, Jennifer Harvey, Elizabeth Fleming, Ingram Karen, George Edwards, Timothy Jenkins, Gillian Doe, Samantha Kon, Karl Sylvester, Toby Maher, Philip Molyneaux, William Man

Service evaluation of a pilot healthcare scientist led OSA clinic in primary care

Rhodri Curtis (Cardiff, United Kingdom), Joleta Hooper-Lee, Alex Perkins

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

PULMONARY EMPOLIMENT DURING TUBERCULOSIS: CLINICAL FEATURES AND OUTCOMES

Amani Ben Mansour (Tunisia, Tunisia),Tarak Cherif, Azza Slim, Hafsaoua Daghdous, 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

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 Haagsm, Rafaealla Bernardelli, Bruno Pedrazzani, Karin Storrer, Nyanne Olivei, Luisa Abbott, Maria Leticia Tebei, Maria Fernanda Viei, 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 Vakouti, 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 Tetikurt, Hanuk 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 Corro, Silvia Pagani, Stefania Raschi, Pierfranco Usai, Cristiano Bonacina, Roberta Cattaneo, Monica Bernareggi, Chiara Melacini, Serena Bencini, Martina Piusso, Francesca D'Arcangelo, Luca Parachini, Chiara Milano, Roberta Cicelli, 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 Meconnachie, 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
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

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 Toldnai, Barna Babik, Ferenc Peták

Viscoelastic behavior of sheep respiratory system during mechanical ventilation
Camilla Zilianti (Milano (Mi), Italy), Fabio Acocella, Giuliano Ravasio, Roberto Galli, Anna Kyriakoudi, Matteo Pecchiar

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

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

Distribution of regional lung ventilation in upright healthy subjects determined by electrical impedance tomography
Iñez Frerichs (Kiel, Germany), Barbara Vogt, Kathinka Deuss, Victoria Hennig, Claas Stroethoff

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

Effects of breathing frequency on the capnogram shape factors in healthy subjects
József Toldnai (Szeged, Hungary), Gergely Fodor, Ibolya Tóth, Petra Somogyi, Bence Ballók, Barna Babik, Ferenc Peták

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

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 Weinkauf, Gaurav Veer Singh, Stephanie Thompson, Benjamin M. Smith, Sean Van Diepen, Michael Stickland

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

Use of oscillometry in clinical practice
Elisabeth Edvardsen (Oslo, Norway), Ingvild Bjellmo Johnsen

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

Airspace diameter map - a quantitative measurement of all pulmonary airspace to characterize structural lung diseases
Sanja Blaskovic (Bern, Switzerland), Pinelopi Anagnostopoulou, Elena Borisova, Dominik Schittrny, Yves Donati, David Haberthür, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampannoni, Constance Barazzone, Johannes C. Schittrny

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

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
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, Ruviistay Gutierrez-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, Riasiah Thayakaran, Nicola Adderley, Krishnarajah Nirantharakum, 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 (Yangsan, Republic of Korea), Taehwa Kim, Hye Ju Yeo, Yunwon Tae, Kyungiae 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. Franzén (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, Rahuldeeb Surkar

**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
Risk factors for long-term invasive mechanical ventilation: a retrospective longitudinal study using German health claims data

Franziska Trudzinski (Heidelberg, 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, SimoneBritsch, Janina Schubert-Haack, Thomas Grobe, Timm Frerk

COPD Care Bundle in Emergency Department Observation Unit Reduces Emergency Department Revisits

Pierpaolo Maietta (mercogliano (AV), Italy)

ICU experience of the Respiratory Syncytial Virus Season after 2 years into the COVID-19 pandemic in a single institution

Lurisha Coopoosamy (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)

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

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

Association of obstructive sleep apnea hypopnea syndrome with brain iron deposition

Sotiros Zarogiannis (Larisa, Greece), Dimitrios Raptis, Ioannis Lampropoulos, Olga Sinani, Dimitra Siachpazidou, Lamprini Pouliti, Georgia Rapti, Chrysoula Marogianni, Eftychia Kapsalaki, Chaido Pastaka, Foteini Malli, Konstantinos Gourgoulianis, Georgia Xiromerisiou

Intermittent hypoxia can induce apoptosis of macrophage

Yina Wang (Changsha (Hunan), China), Xiao Xiao, Silei Deng, Jingjie Kuang, Yuango Chen, Yaying Li

Interruption hypoxia up regulates mTOR expression in hepatic macrophages through CX3CL1/CX3CR1

Yina Wang (Changsha (Hunan), China), Silei Deng, Xiao Xiao, Yuango Chen, Yaying Li

Tracking of respiratory effort during hypopneas in sleep apnoea patients by analysis of energy ratio of breathing sounds using PneaVoX sensor

Thomas Penzel (Berlin, Germany), Martin Glos, Songül Karaca, Jade Vanbuis, Margaux Blanchard, Paria Pourriahi, Meghna Jha, Ingo Fietze

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

Two birds, one stone: a RCT investigating the efficacy of dexamfetamine for treating obesity and obstructive sleep apnoea

Natalie Gaucci (Kingswood, Australia), Hazer Khalifa, Donald Lee, David Coulshed, Emily Hibbert, Kaye Foster-Powell, Alison Poulton

The effect of low dose CO2 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

Gender transition from female to male as a risk factor for sleep-disordered breathing

Samuel Genzor (Olomovc, Czech Republic), Jan Mizera, Jakub Vanek, Jan Prasko, Petr Jakubec, Monika Zurkova, Jiri Kufa

Obesity and self-reported symptoms as determinants of responses to atomoxetine and aroxybutynin for sleep apnea

Ludovicio Messineo (Boston, United States), Scott Sands, Andrew Wellman, Ali Azarbarzin
**TRANSCUTANEOUS NOCTURNAL CAPNOGRAPHY - AN UNDERUSED TOOL?**
Laura Abad Chamorro (Oviedo, Spain), Gemma Rubinos Cuadrado, Maria José Vázquez López, Irene Fernández Suárez, Patricia Rodríguez Menédez, Ina Iordanova Guerassimova, Pablo Lozano Cuesta, Ines Ruiz Álvarez, Juan Francisco Nieves Salceda, Laura Martínez Vega, María Rodil Riera, Eduardo Sánchez Vázquez, Isabel Martínez González-Posada, Patricia Álvarez Álvarez, Ángela Lanza Martínez, Ramon Fernández Álvarez

**Neck structures, risk factor for obstructive sleep apnea**
Norbert Wellmann (TIMISOARA, Romania), Alexandru Cătălin Motofelea, Monica Steluța Marc

**Estimating obstructive sleep apnea endotypes from the oxyhemoglobin saturation signal**
Ludovico Messineo (Boston, United States), Ali Azarbarzin, Neda Esmaeili, Atqiyia Aishah, Daniel Vena, Gonzalo Labarca, Laura Gell, Hu Wen-Siu, Hyung-Chae Yang, Scott Sands, Andrew Wellman

**Gender difference in residual sleepiness at 1-year of CPAP treatment**
Pasquale Tondo (Foggia, Italy), Simone Sorangelo, Anela Hoxhallari, Giulia Scioscia, Matteo Siciliano, Rosa Leccissoti, Matteo Bradicich, Giorgia Moriondo, Piera Soccio, Giuseppe Mansueto, Roberto Sabato, Maria Pia Foschino Barbaro, Donato Lacedonia

**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 Alvaro

**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

**Late Breaking Abstract - Association between obstructive sleep apnea syndrome (OSAS) and QRS duration in women**
Derlen Özgeç (Nicosia, Cyprus), Cenk Conkbayır, Mustafa Akansoy

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**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)

**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

**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 Tsiiri, Eva Theohari, Electra Kouloousoua, Vasiliki Sotropoulou, Demetris Komninos, Argyrios Tzouvelekis

**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 Helmelmann, Stephanie Korn, Christian Taube, Katrin Milger-Kneidinger, Christian Schulz, Hendrik Suhling, Margret Jandl, Rainer Ehmmann, Olaf Schmidt, Marco Idzko, Dirk Skowasch

**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

**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, Josuè Oro, 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 Havadiö (Budapest, Hungary), Izolda Réti, Norbert Ilyés, Árpád Farkas, Alpár Horváth, Balázs Sánta, Tamás Kovács, Péter Czau, 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), Rubali Ana, 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 Arnau, 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 Auzín 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 bottlespacer delivered more salbutamol aerosol to airways than antistaticvalvedholding 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 Soon 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)

**Evaluation of ACCEPT to predict COPD exacerbations in NOVELTY**  
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
Impact of Intrinsic and Extrinsic Environmental Factors on Acute Exacerbations of Chronic Airway Disease
Ying-Yin Chen (Douliou, Taiwan), Hung-Chueh Peng, Chen-Wen Lin, Yenh-Chen Hsein, Chung-Yu Chen

Chronic rhinosinusitis in COPD is associated with increased exacerbation risk
Anders Andersson (Göteborg, Sweden), Joel Bergqvist, Anne Lindberg, Caddie Zhou, Fredrik Nyberg, Johan Hellgren, Caroline Stridsman, Lowie E.G.W. Vanfleteren

Recognising exacerbations in Early COPD

Validation of the Rome proposal for severity of acute exacerbation of chronic obstructive pulmonary disease
Hyo Jin Lee (Seoul, Republic of Korea), Jung-Kyu Lee, Tae Yun Park, Eun Young Heo, Deog Kyeom Kim, Hyun Woo Lee

Comparison of eosinophilic and noneosinophilic exacerbations of COPD: phenotyping of the next relapse
Balazs Antus (Budapest, Hungary), Csilla Paska, Imre Barta

Association between changes in thoracic muscle mass assessed by high resolution computed tomography and exacerbations in patients with COPD- 1-year follow-up
Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyrman Alsted, Marina Sahakyan, Esben Bolvig Mark, Pernille Veis-Pedersen, Rasmus Brath Christensen, Henrik Hojgaard Rasmussen, Jens Brondum Frolkjaer, Lasse Riis Østergaard, Ulla Møller Weinreich

Frailty: a multifaceted challenge in Chronic Obstructive Pulmonary Disease
Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche

Patient-reported symptoms as drivers of COPD exacerbation risk in routine care
Hana Mülleroval (Cambridge, United Kingdom), Clementine Nordon, Stefan Franzén, Laura Belton, Clement Erhard, Nifasha Rusibamayila, Rod Hughes, Pierre-Régis Burgel, Mohammed Sadatsafavi, Christer Janson, For The Novelty Scientific Community And The Novelty Study Investigators

Comparison of hospitalised AECOPDs secondary to SARS-CoV-2 versus other respiratory viruses
Martin MacDonald (Ferny Creek, Australia), Louis Chlor, Stefan Saggese, Garun Hamilton

Association between weather and emergency department visits for acute exacerbation of chronic obstructive pulmonary disease patients with acute respiratory failure
Man-Ju Ting (New Taipei City, Taiwan), Yating Chen, Yeong-Long Hsu, Shih-Lung Cheng

Malnutrition : An independent risk factor of an early readmission for acute exacerbation in COPD
Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche

Platelet count and platelet-to-lymphocyte ratio as biomarkers on the onset of a severe COPD exacerbation
Andreas Schönberg-Moe (EIKSMARKA, Norway), Balázs Csoma, András Bikov, Veronika Müller, Zsófia Lázár

Analysis of sputum microbial metagenome in COPD based on exacerbation frequency and lung function: a case control study
Bingbing Wang (Shanghai, China), Shuanshuan Xie, Changhui Wang

Identifying opportunities for earlier diagnosis of high-risk COPD patients in Australia: an observational study
AndrewDickens(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 Ghislà, Thao Le, Chantal Le Lievre, Ruth Murray, Kanchana Anamala Ranasinghe, Deb Stewart, Marije Van Melle, Rebecca Vella, Russell Wiseman, David Price

Burden of chronic obstructive pulmonary disease (COPD) and risk factors for acute exacerbation: results of phase IV SWORT 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

Biochemical markers as predictors of outcomes in COPD exacerbations
Ana Sofia Maciel Campos Da Silva (Sesimbra, Portugal), Rota Enriquez, Joana Duarte, Andreia Daniel, Inês Claro, Margarida Barata, Maria Alvarenga Santos, Teresa Martin, Nidia Caires, Filipa Todó Bom

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

Predictive factors of intensive care unit admission in COPD exacerbations
Asma Knaz (Sousse, Tunisia), Aissa Sana, Benzarti Wafà, Benbdira Baraa, Imen Gargour, Ahmed Abdelghani
### 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

**Poster session: Clinical aspects in asthma**

**Session 358**  
16:00 - 17:30

**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)

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<td>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</td>
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<td>Andrew Simpson (Hull, United Kingdom), Sarah Drake, Ran Wang, Laura Healy, Hannah Wardman, Miriam Bennett, Clare S Murray, Stephen J Fowler, Angela Simpson</td>
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<td><strong>PA3643</strong> Medical care access and asthma-related hospitalization</td>
<td>Yosssr Aloulou (Manouba, Tunisia), Hana Bilbech, Houda Snene, Marwa Bougach, Rym Cheour, Amal Zemzemi, Nadia Mehiri, Sameh Belhadj, Nozha Ben Salah, Bechir Louzir</td>
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<td><strong>PA3644</strong> Impact of protocolised care on difficult-to-treat asthma outcomes</td>
<td>Nicole Yu-Fang Sieow (Singapore, Singapore), Kundan Saripalli, Yiong Huak Chan, Wilson Chan, Anthony Yii, Xue Ning Choo, Tunn Ren Tay</td>
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<td><strong>PA3645</strong> Asthma frequent fliers: phenotypes, endotypes and current hospital healthcare utilisation – can we do better?</td>
<td>Charlotte Buchalter (Hertfordshire, United Kingdom), Rama Vancheeswaran</td>
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<td><strong>PA3646</strong> Longitudinal lung function trajectories in adults with severe asthma</td>
<td>Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Julie Marsh, Brendan Cooper, Ali Bahron, Adel Mansur</td>
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<td><strong>PA3647</strong> Does a normal symptom score for asthma exclude abnormal airway resistance in mildly symptomatic asthma Patients?</td>
<td>Ilgim Vardaloglu (Istanbul, Turkey), Mert Karatas, Bilun Gemicioğlu</td>
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<td><strong>PA3648</strong> Relation of changes in PEF and FEV1 in exercise challenge in children</td>
<td>Leon Csonka (Tampere, Finland), Antti Tikkakoski, Jussi Karjalainen, Lauri Lehtimäki</td>
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<td><strong>PA3649</strong> Internal consistency reliability of the VCDQ for Inducible Laryngeal Obstruction</td>
<td>Siobhan Ludlow (Cheshire, United Kingdom), Bethany Tidmarsh, Charles Pantin, Stephen Fowler</td>
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<td><strong>PA3650</strong> Respiratory muscle strength investigation in asthma patients with post-COVID-19 syndrome and significant dyspnea</td>
<td>Svitlana Olimakh (Kyiv, Ukraine), Yurii Feshchenko, Galyna Gumeniuk, Mykola Gumeniuk, Maryna Polianska, Viktoria Ignatieva, Inna Zvol, Svitlana Moskalenko, Nataliia Vlasova, Iryna Chumak, Liudmyla Halai</td>
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<td><strong>PA3651</strong> Identifying undiagnosed asthma in symptomatic adults with normal pre- and post-bronchodilator spirometry</td>
<td>Sheojung Shin (Ottawa, Canada), George Whitmore, Louis-Philippe Boulet, Marie-Ève Boulay, Andréanne Côté, Céline Bergeron, Catherine Lemière, M. Diane Lougheed, Katherine L Vandenheen, Gonzalo Alvarez, Sunita Mulpuru, Shawn Aaron</td>
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<td><strong>PA3652</strong> The impact of time-of-day on the diagnostic performance of tests for asthma</td>
<td>Ran Wang (Manchester Greater Manchester, United Kingdom), Stephen Fowler, Robert Maidstone, Laura Healy, Sarah Drake, Lesley Lowe, Angela Simpson, Clare Murray, Hannah Durrington</td>
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<td><strong>PA3653</strong> Impact on clinical practice of the ERS/ATS 2022 recommendation on defining bronchodilator response.</td>
<td>Monique Hardy (Roermond, Netherlands), Martijn Cuijpers, Herman-Jan Pennings</td>
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<td><strong>PA3654</strong> The control of asthma in association with body mass index and the age of asthma onset</td>
<td>Vladyslava Kachkovska (Sumy, Ukraine)</td>
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<td><strong>PA3655</strong> Difference between spirometry and oscillometry in detecting bronchodilator response in asthma.</td>
<td>Lotte Bult (Rotterdam, Netherlands), A Roos, G J Braunstahl, J C C M In ’T Veen</td>
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<td><strong>PA3656</strong> Characterization of the patients attended in the Emergency Room due to asthmatic exacerbation</td>
<td>Daniel Enrique Vega Lizarrazo (Malaga, Spain), Javier Lopez, Alvaro Martinez, Eva Cabrera, Maria Carmen Fernández, José Luis Velasco</td>
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**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

**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

**Impact of socio-economic status on asthma control and therapeutic compliance in the Tunisian population**

Houda Rouis (Ariana, Tunisia), Hana Dhiollah, Chirine Moussa, Donia Jridi, Chaima Turki, Oumayma Aggouni, Ibthiel Khouaja, Ines Zendah, Sonia Maalej

**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

**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, Guillerme Safioli

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**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)

**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

**Use of the CAPTURE case-finding tool to identify COPD patients who may need treatment**

Jinpeng 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

**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

**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

**Preserved ratio impaired spirometry: fewer small airway dysfunction than COPD**

Yumi Fujita (Shizuoka, Japan), Toshihiro Shirai, Shiuchi Sugiyama, Taisuke Akamatsu, Keita Hirai, Yasuhiro Gon

**Lung volumes by CT and plethysmography: are we measuring the same? Data from the CanCOLD study**

Tobias Lorenz Mraz (Birmingham, United Kingdom), Alison Mansfield, Michael Armitage, Aditya Krishnan, Priya Chukowry, Alice Turner

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**ERS International Congress 2023**

**DETAILED PROGRAMME**

**MONDAY 11 SEPTEMBER, 2023**

**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**

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**PA3659**

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**PA3660**

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**PA3661**

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**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)

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**Phenotyping asthma with airflow obstruction in middle-aged and older adults: a CADSET Clinical Research Collaboration**


**Small Airway Dysfunction (SAD) in older patients: analysing lung function data from the SAFFRON study**

Maximillian Thomas (Birmingham, United Kingdom), Alison Mansfield, Michael Armitage, Ketan Patel, Aditya Krishnan, Emily Ho, Marie Kershaw, Priya Chukowry, Alice Turner

**Revisiting Hutchinson’s paradigm: PRISm or vital capacity?**

Caspar Schiffers (Vienna, Austria), Emil Wouters, Tobias Mraz, Marie-Kathrin Breyer, Otto Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

**The comparison of new and old European Respiratory Society/American Thoracic Society criteria for airway responsiveness in patients with asthma**

Nina Trepić (Novi Sad, Republic of Serbia), Marko Nemet, Ivan Kopitović, Marija Vukoja
PA3672 Bayesian modelling of combined FEV1 and FVC vital lung function trajectories: relationship with airflow obstruction and PRISm
Núria Olvera Ocaña (Barcelona, Spain), Àlvar Agustí, James Ross, Rosa Faner

PA3673 Detection of Small Airway Disease with Oscillometry in Asthmatics
Christoph Valach (Vienna, Austria), Chiara Veneroni, Émiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Della, Owaat Sunanta, Sylvie Hartl, Marie-Kathrin Breyer, Caspar Schiffer, Charles G. Irvin, Robab Breyer-Kohansal

PA3674 Association of a polygenic risk score for chronic obstructive pulmonary disease with lung function across the lifespan

PA3675 Patient attitudes towards digital peak flow monitoring in asthma
Sachin Ananth (London, United Kingdom), Serena Alpi, Thomas Antalffy

PA3676 Relationship between impulse oscillometry and spirometry parameters in adults with pulmonary obstructive diseases
Marta Martin Lana (Zaragoza, Spain), Beatriz Herrero Cortina, Guillermo Samuel Loscertales Vacas, Ana Garcia Esteban, Xuxiaolin, Lucia Elsua Prats, Patricia Iniguez De Heredia Monforte, Jorge Luis Hurtado Ortega, Elena Borobia Irache, Ana Cristina Aguelo Velilla

PA3677 How many lung function interpretations can an expert make in one hour based on the 2021 ERS/ATS standards?
Julie Maes (Leuven, Belgium), Paul Desbordes, Nadia Stachowicz, Janine Kaspers, Rami Arfoosh, Matthew Hegewald, Maarten De Vos, Marko Topalovic

PA3678 Comparison of spirometry and both spectral and intra-breath oscillometry for the prediction COPD symptoms
Paolo Medina-Iglesias (Montreal, Canada), Hugo Morin, Carol Artico, Zoltan Hantos, Ronald Dandurand

PA3679 Correlation and concordance of arterial oxygen saturation measured by arterial blood gases and pulse oximetry according to anatomical location
Cristhian Correa (Madrid, Spain), Virginia Gallo González, Rosa María Rojas Moreno-Tomé, María Del Carmen Suárez Rubío, Rafael Pesquera Criado, Daniel López Padilla, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu

PA3680 Sharing recruitment sites with a precision-medicine based study
Guillaume Desachy (Mölndal, 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 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 | Introduction | Christian B. Laursen (Odense, Denmark)

08:20 | Normal Thoracic Cavity | Helen McDill (Bristol (Avon), United Kingdom), Casper Falster (Odense, Denmark)

08:20 | Pleural effusion and/or pleural thickening | Gilles Mangiapan (Creteil, France), Pia Iben Pietersen (Odense C, Denmark)

08:20 | Case studies | Najib M. Rahman (ABINGDON, United Kingdom)

08:20 | Guided interventions | Søren Helbo Skaarup (Aarhus C, Denmark), Rahul Bhatnagar (Bristol, United Kingdom)

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), Giorgio Castellana (Bari (BA), Italy)

PA3755 The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure
Fangbo Zhao (Changchun (Jilin), China), Hongjing Lin

PA3756 A contemporaneous comparison of functional recovery in ECMO and non-ECMO survivors of acute respiratory failure
Andrea Levine (Baltimore, United States), Noel Britton, Mackenzie Snyder, Binta Njie, Sara Viola, Hatoon Abbas, Waqas Bhatti, Ryan Lee, Siu Yan Yeung

PA3757 Delivering home mechanical ventilation: Evaluating a regional outreach service.
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
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

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

PaCO2 vs etCO2 correlations in Amyotrophic Lateral Sclerosis patients during routine out-patient follow-up  
Dario D’Amato (Grumo Appula, Italy), Paola Pierucci, Gualterio Ernando Romano, Marialuisa De Candia, Simone Rizzelli, Pierluigi Intiglìetta, Alessandro Palumbo, Luciana Labate, Nicola Valerio, Alessandro Pilon, Chiara Massaro, Giovanna Elistiana Carpanzano

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 Oller, Fernando Diaz Guerrero, Mar Elena, Sergio Tejero Garcia, Miguel Angel Giráldez Sánchez, Esther Quintana Gallego

Breathlessness and exercise performance to predict mortality in long-term oxygen therapy  
Filip Björklund (Karlskrona, Sweden), Andreas Palm, Iwan Abdulrazak Gorani, Zainab Ahmadi, Josefin Sundh, Jenny Theorell Hagløw, Mirjam Ljunggren, Ludger Grote, Karin Wadell, Magnus Ekström

Evaluation of a novel domiciliary long term oxygen therapy assessment service  
Kathleen McGee (Glasgow, United Kingdom), Michael Mcgettrick, Katherine Rooney, Christopher Wills, Hannah Bayes

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

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 Deganeutti Krause

Title: Effects of exercises on lung function of NCIB and healthy subjects evaluated by impulse oscillometry system  
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Joao Paulo Silveira, Maria Clariane Berto Hayashi, Vinicius Oliveira, Gerardo Ferrero, Debra Nunes Da Silva, Miguel Victor Deganeutti Krause

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

Oropharyngeal dysphagia in COPD patients  
Anne Sophie Malishchuk (Rouen, France), Armand Bonne, Rimeh Ayari, Eric Verin

Pulmonary rehabilitation following hospitalised exacerbations in people with bronchiectasis  
Jennifer Kilduff (London, Ireland), Claire Nolan, Suhani Patel, Anand Shah, Janet Stowell, William Man

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

Patients’ clinical and psychological status in different COVID-19 waves: a quanti-qualitative study  
Marina Maffioni (Monteciano, Italy), Martina Vigorè, Valeria Torlaschi, Alessandra Gorini, Maria Teresa La Rovere, Roberto Maestri, Maurizio Bassotti, Sergio Enea Masnaghetti, Francesco Fanfulla, Antonia Pierobon

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

Prehabilitation in lung cancer surgery: A review and meta-analysis of RCT studies  
Kalliopi Athanassiadis (Athens, Greece), Dimitrios Magouliotis, Evangelia Chatzimichali, Evangelia Liverakou, Aikaterini Katsandri, Ioannis Kalomenidis, Paraskevi Katsaounou
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

Assessment of Small Airway Flow Parameters: A Comparative Study between Realistic and Idealistic Computational Models


Clinical usefulness of exhaled breath temperature in asthma management

Mami Rikimaru (Fukushima, Japan), Junpei Saito, Yasuhiro Suzuki, Atsuro Fukuhara, Tomoyooshi 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, Yoshihori Tanino, Yoko Shibata

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 Agusti, Rosa Faner, Ian Pavor, Hiromasa Inoue, David Price, José Olaguibel, Huib Kerstjens, Maarten Van Den Berge

Establishment of the alpha-1 research registry analyzing demographic and participant specific characteristics

Jeanine D’Armento (New York, United States), Alison Keaveny, Laura Fonseca, Charlie Strange, James Michael Wells, Nadine Nuchovich, Randel Plant, Monica Goldklang

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

Preventing hospital readmissions of COPD patients: alerting rules on vital signs for remote patient monitoring

Yibing Chen (Beijing, China), Lu Cao, Dahui Zhao, Song Meng, Dan Li, Wenjuan Chen, Jing Li, Kailun Xia, Lixin Xie

COPD Screening and Ventilatory Function Assessment based on smartwatch sensor signals

Tobias Lorenz Mráz (Wien, Austria), Caspar Schifflers, Emil Tailhout, Marie-Kathrin Breyer, Otto Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

Validation of the Obstructive Lung Disease Questionnaire in a primary care cohort, with additional focus on ACO in primary and tertiary care

Ramses Hernandez (Mexico, Mexico), Roxana Rodriguez, Oscar Villalva, Joaquin Pimentel, Jose Luis Miguel, Miguel Angel Villasis

Utility of the Oscillometer in the detection of small airways dysfunction (SAD) in patients with respiratory symptoms and normal lung function

Andrej Malinovschi (Uppsala, Sweden), Gunmar 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/meter2
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, Imaging, General respiratory patient care
Tag(s): Translational, Epidemiology, Pulmonary function testing, Physiology

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 rutile-titled 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 Wiggins (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), Benoit Nemery (Leuven, Belgium), 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.
Aruru Thiruvuruchelvan (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, Maria Fernández-Velilla, Gema Bonilla, Isabel Esteban, Rita Rejojo, Concepción Prados, Rodolfo Alvarez-Sala

PA3802 Potential biomarkers for the diagnosis of patients with fibrotic hypersensitivity pneumonitis
Silvia Sánchez-Diez (Barcelona, Spain), Xavier Muñoz, David Espejo, Susana Gómez-Ollés, Iñigo Ojanguren, Christian Romero-Mesones, María-Jesús Cruz
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<thead>
<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
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<td>PA3803</td>
<td>Exposure to mould in dwellings and respiratory/allergic/systemic symptoms in Italian children</td>
<td>Sara Maio (Pisa (PI), Italy), Giuseppe Sarno, Sandra Baldacci, Anna Angino, Ilaria Stanisci, Sofia Tagliaferro, Patrizia Silvi, Giovanni Viegi</td>
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<tr>
<td>PA3804</td>
<td>Lung function, mercury exposure and chronic mountain sickness in gold miners at 5100m</td>
<td>Ahmet Sevik (Zuerich, Switzerland), Dominic Gilliand, Renaud Persoons, Benoit Champigneulle, Julien Brugniaux, Samuel Verges, Michael Furian</td>
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<td>PA3805</td>
<td>Effects of hypobaric hypoxia on workers in a ski resort</td>
<td>Pedro José Romero Palacios (Peligros, Spain), Bernardino Alcázar Navarrete, Antonio Luis Arrebola Moreno, Juan Antonio Holgado Terriza, Maria Wenceslää Puya Pérez</td>
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<tr>
<td>PA3806</td>
<td>Lung deposition patterns of anthracosis is related to air pollution environment by geolocalization in a temporal manner</td>
<td>Maria Julia Faci do Marco (Ribeirão Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimermann, Mateus Magalhães Lage Moraes, Alexandre Todorovic Fabro</td>
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<td>PA3807</td>
<td>Soot particles induce cytotoxicity, oxidative stress and inflammatory responses in structural lung cells linked to adverse health effects from exposure to polluted air.</td>
<td>Anna-Karin Larsson-Callerfelt (Lund, Sweden), Nilofar Faruqui, Sofie Orell, Camilla Dondi, Jenny Rissler, Konstantina Vasilatou, Ian Mudway, Monica Karedal, Michael Shaw</td>
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<td>PA3808</td>
<td>Association between Covid-19 pandemic and shift work: the COVISTRESS online survey</td>
<td>Elvia Giovanna Battaglia (Milano (MI), Italy), Monica Puligheddu, Rosamaria Lecca, Matteo Figorilli, Maria Livia Fantini, Maëlys Clinchamps, Fréderic Dutheil, Pierre Luigi Cocco</td>
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<td>PA3809</td>
<td>Comparison of the immune response of respiratory healthcare workers to booster vaccination against SARS-CoV-2 and to a subsequent viral infection</td>
<td>Imre Barta (Budapest, Hungary), Viktória Szél, Imola Mán, Lilla Lőrinczi, Balázs Antus</td>
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<td>PA3810</td>
<td>Long-term risk of COVID-19 after extreme smoke exposure</td>
<td>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</td>
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<tr>
<td>PA3811</td>
<td>Exposure to air pollution and respiratory diseases in adults: an innovative multipollutant approach</td>
<td>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 Sibiliblo, Giulia Squillacioti, Massimo Stafoggia, Ilaria Stanisci, Sofia Tagliaferro, Giuseppe Verlato, Giovanni Viegi</td>
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<td>PA3812</td>
<td>Clinical and inflammatory profile before and after specific inhalation challenge in individuals with suspected occupational asthma to persulfate salts</td>
<td>Mª Jesus Cruz Carmona (Barcelona, Spain), MARIA SAEZ LOPEZ, Silvia Sánchez-Diez, Christian Romero Mesones, David Espejo, Iñigo Ojanguren, María Jesús Cruz, Xavier Muñoz</td>
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<td>PA3813</td>
<td>Lung function impairment and COPD in workers from production of chemical materials for construction and engineering</td>
<td>Dragan Mijakovski (Skopje, North Macedonia), Sasho Stoleski, Jordan Minov, Aneta Atanasovska, Dragana Bislimovska, David Zdraveski, Jovanka Karadzinska-Bislimovska</td>
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<td>PA3814</td>
<td>Influence of PM and NO2 exposure on long-term risk of hospital admissions due to COPD exacerbations in 3 Polish agglomerations</td>
<td>Artur Badyda (Warszawa, Poland), Piotr Dąbrowiecki, Agata Dąbrowiecka, Anna Piórkowska, Andrzej Chciałowski</td>
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**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
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<tr>
<td>PA3816</td>
<td>Impact of Shared Decision Making on medication adherence in patients with COPD and/or asthma: The ANANAS study.</td>
<td>Maria Achterboschm (Groningen, Netherlands), Priya Vart, Liset Dijk, Van, Job Boven, Van</td>
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<td>PA3817</td>
<td>Improving depression symptoms in COPD patients through home-based pulmonary rehabilitation with health coaching</td>
<td>Maria Benzo (Rochester, United States), Madison Roy, Roberto Benzo</td>
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<td>PA3818</td>
<td>COPD-related anxiety: A systematic review of patient perspectives.</td>
<td>Camilla Fischer Christiansen (Børkop, Denmark), Anders Lokke, Vibke Bregnballe, Thomas Prior, Ingeborg Farver-Vestergaard</td>
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<td>PA3819</td>
<td>COVID-19 vaccination hesitancy in the European population aged 50+</td>
<td>Anna Boros (Warszawa, Poland)</td>
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<td>PA3820</td>
<td>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).</td>
<td>Alice Munns (Kent, United Kingdom), Laura Wiffin, Daphne Kaklamanou, Ina Kostakis, Alessandra Fasulo, Thomas Brown, Anoop Chauhan</td>
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<td>PA3821</td>
<td>Neurocognitive and Neuropsychiatric Sequelae of Long COVID (LC) patients (pts)</td>
<td>Paraskevi Katsaounou (Athens, Greece), Evniki Ntinopoulou, Maria Karytnou, Sofia Margariti, Sofia Sideri, Katerina Poprellka, Theodoros Fasilis, Panayiotis Patrikelis, Maria Stefanatou, Archodoula Adonoglou, Sofia Pappa, Stylianos Gatzonis</td>
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<td>PA3823</td>
<td>Measuring the stigma of long COVID: principles and practices transferrable to other stigmatizing respiratory conditions</td>
<td>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</td>
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<td>PA3824</td>
<td>A qualitative study explaining family-management of children’s and young people’s asthma in the changing COVID-19 context</td>
<td>Grace Lewis (Leeds, United Kingdom), Linda Milnes, Alexandra Adams, Jürgen Schwarz, Alistair Duff</td>
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<td>PA3825</td>
<td>Non-Invasive Ventilation (NIV) in people affected by COVID-19 pneumonia: evaluation between acute and rehabilitation settings</td>
<td>Eleonora Volpato (Milano (MI), Italy), Paola Pierucci, Valentina Poletti, Lavinia Di Palma, Alessandro Pilon, Giovanna Elisiana Carpagnano, Laura Fagetti, Paolo Banfi</td>
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<td>PA3826</td>
<td>Sleep disorders between COVID-19 survivors with different levels of fear of COVID</td>
<td>Alvaro Montañez (Mexico City, Mexico), Liseth Sarai Cañada Edoróñez, Viridiana Pelaez Hernández, Diana Everanda Torres Gómez, Mauricio Reyes Franco, Adán 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, Rocio Sánchez Santillán, Arturo Orea Tejeda</td>
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<td>PA3827</td>
<td>The usefulness of relationships assessing between personality dimensions as an element differentiating patients with obstructive sleep apnea.</td>
<td>Pawel Kwiecień (Warsaw, Poland), Joanna Domagala-Kulawik</td>
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<td>PA3828</td>
<td>Effectiveness of brief referral methods for smoking cessation – a literature review</td>
<td>Mads Hansen (Odense C, Denmark), Ingeborg Farver-Vestergaard, Anders Lokke</td>
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<td>PA3829</td>
<td>Anxiety, depression and PTSD in COVID-19 survivors with and without invasive mechanical ventilation</td>
<td>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 Cañada Edoróñez, Arturo Orea Tejeda, Rocío Sanchez, Guiedani Galván, Nadia Hernández López, Arturo Rodríguez, Mildred Corina De La Concha Duarte</td>
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<td>PA3830</td>
<td>Reassessing the mental health of Respiratory High Care Unit (RHCU) staff in the aftermath of the COVID-19 pandemic</td>
<td>Hannah Badawy (solihull, United Kingdom), Catherine Salisbury, See Ling Tan, Abhimanyu Lal</td>
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Psychological affectation in caregivers of respiratory failure patients by age groups


Autonomic alterations measured by temperature in COVID-19 survivors with and without IMV


Smoking behavior of the Tunisian physicians

Ines Moussa (Bizerte, Tunisia), Hana Mrassi, Hanen Smadhi, Ines Akrout, Leila Fekih, Lamine Megdiche

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

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

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 Dimić, Nemanja Dimić, Jelena Kotur Stevuljevic, Azra Guzönjic, Danica Cuic, Dejan Zujovic

Balance between neutrophil extracellular trap formation and DNase activity in COVID-19 patients: a prospective cohort study

Renaud Prével (Bordeaux, France), Geoffrey Garcia, Sylvia Colomer-Labrouche, Alexandre Duvignaud, Etienne Clequin, Charles Dussiau, David-Alexandre Tregouët, Denis Malvy, Julien Goret, Maria Mamani-Matsuda, Antoine Dewitte, Chloé James

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 Lopez-Aladid, Ana Motos, Josep Lluis Bedini, Alba Soler-Comas, Roberto Cabrera, Kasra Kiarostami, Blanca Llonch, Laia Fernández-Barat, Antoni Torres

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 Garcia Del Toro, Estrella Fernández-Fabrellas, Juan José Tamarit

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, Faisel Khan, James Chalmers

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 Abol-Leyah, Thomas Pembridge, Lilia Delgado, Rebecca C Hollow, Benjamin Jm New, Rebecca Dowey, Helena Turton, Alison M Condliffe, James D Chalmers, A A Rodger Thompson

TSLP gene polymorphisms and alarm proteins levels in COVID-19

Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Wattie, Lesley Willshire, Jennifer Le Roux, Eric Cheng, Thivya Srinathan, Terence Ho, Roma Sehmi, Mylinh Duong, Gail Gauvreau
Phenotypic Characteristics of Hospitalized Patients with COVID-19 Pneumonia Using Machine Learning Consensus Clustering Approach
Nuttinan Nalinthasnai (Bangkok, Thailand), Dararat Eksombatchai, Viboon Boonsaengsuk, Pongdhep Theerarwit, Yuda Sutherasan, Detajin Junhasavadikul, Sommuek Sangkanuparp, Tanapat Tassaneyasing, Ratchainat Thammasudjarit, Tananchai Petnak

Cytokine and chemokine signature of COVID-19 and predictive markers
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

Soluble Bradykinin as a clinical prognostic marker for SARS-CoV2?
Pajanivel Ranganadin (PONDICHERRY (Tamil Nadu), India), Agiesh Kumar Balakrishnan, Vignesh Mariappan

COVID-19 pneumonia: when do eosinophils matter?
Nicol Bernardinello (Trecenta (RO), Italy), Dylan Pasin, Giulia Grisostomi, Chiara Giraudo, Gioele Castelli, Elisabetta Cocconcelli, Anna Maria Cattelan, Paolo Spagnolo, Elisabetta Baleztr

miR-21-5p high expression levels in younger hospitalized COVID-19 patients are associated with mortality and critical disease
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

Vitamin D values in post-COVID syndrome patients are lower than in control groups
Jens Bräunlich (Leipzig, Germany)

Procalcitonin to rule out early bacterial coinfection in COVID-19 critically ill patients
Francesco BINDO (Cusano Milanino, Italy), Flavia Galli, Anna Motos, Laia Fernandez-Barat, Enric Barbeta, Sofia Misuraca, Andrea Palomeque, Ferran Barbe, Antoni Torres

Who gets persistent symptoms and why - analysing the plasma proteome in long COVID
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

Ferritin to Procalcitonin (F/P) ratio in patients with COVID19 pneumonia versus bacterial pneumonia. Do we have a reliable and challenging biomarker?
Radmila Dmitrovic (Belgrade, Republic of Serbia)

Late Breaking Abstract - Erdosteine and its metabolite MET-1 modulate innate immunity and stress oxidative state in SARS-CoV-2 infection
Sergio Strizzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Radovanovic, Daria Trabattoni, Pierachille Santus

A scoping review of outcome measures in randomised controlled trials of pleural infection
Jessica Hughes (BRISTOL, United Kingdom), Sarah Rudd, Alice Milne, Nick Maskell, David Arnold

RAPID Score: Mortality and hospitalization risk stratification in pleural empyema
Maria João Lúcio (linda a velha, Portugal), Eva Brysch, Margarida Guerreiro, Fernando Nogueira

Incidence and clinical outcomes of pneumonia patients with pleural effusions in 28 urgent care clinics
Nathan Dean (Murray, United States), Jackie Eve, Allison Butler, James Hart, Thea Sakata, Eddie Stenejhem, Y. C. G. Lee

Intrapleural use of tissue plasminogen activator and DNase in management of pleural infection.
Prashanth Shetty (Aston Clinton, United Kingdom), Alex Francioni, Adeel Jafri
PA3859  Clinical features of pneumothorax associated with COVID-19: a single-centre retrospective analysis
Kohei Fujita (Kyoto, Japan), Toshiyuki Iwata, Osamu Kanai, Hiroaki Hata, Masayuki Hashimoto, Hiroyuki Tanaka, Takao Odagaki, Tadashi Mio

PA3860  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)
Haruka Fujioka (Kamogawa, Japan), Yuya Homma, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3861  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
everyone kegode (johannesburg, South Africa)

PA3862  Prognostic factors of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients: A multicentre, retrospective, observational cohort study (RE-VISION-PCP)
(, Japan), Haruka Fujioka, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3863  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)
Tatsuya Nagai (Kamogawa, Japan), Haruka Fujioka, Yuya Homma, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3864  Impact of bronchoalveolar lavage on the management of immunocompromised hosts
Kathleen Jahn (Basel, Switzerland), Meropi Karakioulaki, Desiree Schumann, Hans Hirsch, Karoline Leuzinger, Letizia Grise, Stefano Aliberti, Giovanni Sotgiu, Michael Tamm, Daiana Stolz

PA3865  Clinical outcomes of haematological patients undergoing bronchoscopy in a registry of immunocompromised patients evaluated for pulmonary infections.
Eugene Gan (Singapore, Singapore), Brian Chua, You Xin Puan, Timothy Toh, Saripalli Kandan Reddy, Isaac Fong, Deshawn Tan, Yi Hern Tan

PA3866  Burden of hospitalized adult pertussis in France, 2008-2020
Denis Macina (LYON, France), Mickael Arnaud, Johanna Despres, Ana Antunes, Regis Verdier, Juan C Vargas Zambrano

PA3867  Antibiotic treatment strategies in a Danish cohort of patients with lung abscesses.
Søren Sperling (Aarhus N, Denmark), Victor Naestholt Dahl, Jakob Kirkegaard Vaarst, Christian Borbjerg Laursen, Tina Nørregaard Gissel, Pia Holland Gjørup, Andreas Floe, Elisabeth Bendstrup

PA3868  Pulmonary nocardiosis as an emerging infection in non-cystic fibrosis bronchiectasis
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

PA3869  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
Yasmin Rahim (Kettering, United Kingdom), Syed Muhammad Zubair, Muhammad Mustansir Mehdi Khan, Hamza Ahmed Ibad, Muhammad Irfan

PA3870  Lung contusion due to military chest injury as a risk factor for bacterial pneumonia and other respiratory infections.
Oleh Yakovenko (Lutsk, Ukraine), Eduard Khodosh, Iryna Hrytsiuk, Tetiana Yakovenko

PA3871  Bacteriological spectrum and drug susceptibility in post tuberculosis bronchiectasis
Tehreem Ahmad (Karachi, Pakistan), Faisal Faiyaz Zuberi

PA3872  The Neutrophil-to-Lymphocyte ratio as a biomarker of severity in bronchiectasis
Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hana Mrassi, Sarra Ben Sassi, Sarra Trimech, Chrine 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 Debeche, Nourchene Khalfallah, Linda Ben Hamida, Amel Khattab, Zied Moetamri, 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 Chemniti, 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, Irina Bracka, Theodoris Daskalos, Antonia Zachariou, Elli Keramida, Elena Bellou, Fotis Kyriakou, Despoina Zorpidou, Panagiota 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

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 Famallicão, Portugal), Patricia Castro, Marta Castro, Margarida Dias, Daniel Coutinho, Eloisa Silva, Jose 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

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 Irus, Coenraad F 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, Larratz Garcia Echeberria

PA3891 Impact of coronavirus disease 2019 on the clinical course of thoracic malignancies
Osamu Kani (Kyoto, Japan), Takamori 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
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<td>Zanfur Khan (Shipley, United Kingdom), Kwee Yen Goh, Abhishek Gupta, Sanjay Kumar</td>
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<th>PA3894</th>
<th>Metastatic lung cancer: another symptom of Long COVID?</th>
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<td>Rebecca Evans (London, United Kingdom), Rohan Pancharatnam, Burhan Khan</td>
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**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)

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<th>PA3895</th>
<th>Impact of Bifidobacterium longum BB536 on nausea caused by pirfenidone in a mouse model of pellagra</th>
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<td>Koji Kuronuma (Sapporo, Japan), Natsumi Susai, Takeshi Yoshioka, Atsushi Saito, Hirofumi Chiba</td>
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<th>PA3896</th>
<th>Fcor/FOXO1 axis regulates GLUT1-mediated mitochondrial oxidative stress and metabolic reprogramming in angiotensin II-induced fibroblast activation</th>
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<th>PA3897</th>
<th>Novel waveform analysis reveals persistent pathophysiological changes in rodent model of pulmonary fibrosis</th>
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<td>Maria Volovaya (London, United Kingdom), Miquel Serra Pascual, Yujia Wu, Philip Aston, Carolyn Lam, Aileen Milne, Mary McElroy, Manasi Nandi</td>
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<th>Regenerative capacity of alveolar type 2 cells is proportionally reduced following disease progression in IPF-derived organoid cultures</th>
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<td>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</td>
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<th>Abnormal phosphorylation of Per2 induces myofibroblast transformation and promotes the development of pulmonary fibrosis</th>
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<td>Mei Chen (Chengdu (Sichuan), China), Lian Liu</td>
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<th>PA3900</th>
<th>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</th>
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<td>Mari Nogami-Itoh (Ibaraki-shi, Japan), Masataka Kuroda, Yoshito Takeda, Yuya Shirai, Takatoshi Enomoto, Jun Adachi, Sadao Kurohashi, Ejii Aramaki, Toshhiro Takeda, Yasushi Matsumura, Masahiro Yanagawa, Yayoi Natsume-Kitatani, Kenji Mizuguchi, Naonori Ueda, Atsushi Kumanogoh</td>
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<th>PA3901</th>
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<th>PA3902</th>
<th>A multicenter study of extracellular vesicles profile in bronchoalveolar lavage from patients affected by IPF, HP and sarcoidosis</th>
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<td>Miriana d’Alessandro (Siena, Italy), Sara Gangi, Piera Soccio, Elisabet Cantó, Ruben Osuna, Laura Bergantini, Paolo Cameli, Gaia Fabbri, Sara Croce, Giulia Sciscia, Giorgia Moriondo, Giusy Montuori, Matteo Fanetti, Fabrizio Mezzasalma, Diego Castillo, Donato Lacedonia, Silvia Vidal, Elena Bargagli</td>
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<th>PA3903</th>
<th>Aging disturbed lysosomes to modulate efferocytosis-induced SPP1-expressing macrophage and inhibit pulmonary fibrosis reversal</th>
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<td>Yue Zhang (Guangzhou, China), Hua Zhang</td>
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<th>PA3904</th>
<th>Use of invasive lung function assessment (DSI/Buxco) to quantity changes in lung function parameters in a rat bleomycin model of lung fibrosis</th>
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<td>Mary McElroy (Edinburgh (Edinburgh), United Kingdom), Rachel Macfarlane, Jennifer Dowie, Kirsten Maclellan, Shyloh Solomon, James Baily</td>
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<th>PA3905</th>
<th>Iron status and the risk of idiopathic pulmonary fibrosis: a mendelian randomization study</th>
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<td>Jian Zhou (Chengdu, China), Menglin He, Rurong Wang, Xuehan Li</td>
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<th>Microcomputed tomography to study the in vivo development of IPF-like disease in conditional Nedd4-2 deficient mice</th>
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<td>Dominik Leitz (Berlin, Germany), Philip Konietzke, Willi Wagner, Julia Duerr, Hans-Ulrich Kauczor, Marcus A. Mall, Mark O. Wielpütz</td>
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Sara Bozzini (Pavia, Italy), Cecilia Bagnera, Eleonora Bozza, Matteo Della Zoppa, Silvia Mancinelli, Federica Briganti, Giulio Melloni, Federica Meloni

A novel senolytic drug, ARV-825, ameliorates experimental lung fibrosis
Seidai Sato (Hamilton (ON), Canada), Kazuya Koyama, Hirohisa Ogawa, Kojin Murakami, Yuya Yamashita, Nandinder Erdane Danzan, Hiroki Bando, Keiko Haji, Nobuhiro Naito, Hiroshi Kawano, Eiji Harara, Yasuhiro Nishioka

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

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

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 Demasti, Gayeong Hur, Seung-Hyo Lee, Johan Auwerx, Hoe-Yune Jung

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 Demasti, Johan Auwerx, Gayeong Hur, Seung-Hyo Lee, Heo-Yune Jung

Preclinical evaluation of Ezetimibe for repurposing to pulmonary fibrosis.
Chanho Lee (Seoul, Republic of Korea), Se Hyun Kwak, Jisu Han, Hy Jye Shin, Yu Seol Lee, Jeong Su Park, Beom Jin Lim, Jin Gu Lee, Young Sam Kim, Song Yee Kim, Soo Han Bae

Intratracheal administration of a PROTAC with subnanomolar potency induces BRD4 degradation in the lung without systemic target engagement
Ulf Hedström (Mölndal, Sweden), Antonio Piras, Rikard Pehrson, Jianming Liu, Amy Wilson, Karin Carlsson, Karin Ribbing, Cecilia Forss, Oliwia Slettengren, Madeleine Engsevi, Johan Jirholt, Martin Hemmerling
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<th>Disease(s)</th>
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<td>Interstitial lung diseases, Airway diseases</td>
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<td>Cormac McCarthy (Dublin 4, Ireland), Elisabetta Renzoni (London, United Kingdom)</td>
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| PA3935 | Efficacy of Jak inhibitors in children with intra-alveolar haemorrhage not related to COPA gene mutations | Jak inhibitors, IFP progression | Cormac McCarthy, Elisabetta Renzoni |
| PA3936 | Cyclic AMP-dependent up-regulation of surfactant protein B in differentiating alveolar basal cells | Myeloid-dependent immunosuppressive features | Cormac McCarthy, Elisabetta Renzoni |
| PA3937 | WT SP-A restores abnormal oligomerization and secretion of mutant SFTPA1 and SFTPA2 | Efficacy | Cormac McCarthy, Elisabetta Renzoni |
| PA3938 | Altered regulation and pro-proliferative role of RNA binding proteins in idiopathic pulmonary fibrosis | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3939 | Hypomorphic mutation in SFTPB leads to adult pulmonary fibrosis | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3940 | Induced pluripotent stem cell derived type 2 alveolar epithelial cells: A novel platform for exploring telomere biology in pulmonary fibrosis | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3941 | Necroptosis study in an epithelial in vitro model expressing surfactant protein A1 | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3942 | Correlation between Quantitative 3D HRCT analysis and Lung Function in Diffuse Cystic Lung Diseases | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3943 | Characterization of fibrodysplasia ossificans progressiva (FOP) by respiratory oscillometry (Osc) | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3944 | Flow cytometric evaluation of whole lung lavage (WLL) fluid from patients with pulmonary alveolar proteinosis (PAP): preliminary findings | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3945 | Correlation between childhood interstitial lung disease (chILD) phenotype and ABCA3 variants | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3946 | Machine learned decision tree for diagnosis of ASMD among patients with unexplained ILD | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3947 | Interleukin-6 and krebs von den lungen-6 in lymphangioleiomyomatosis patients | Safety | Cormac McCarthy, Elisabetta Renzoni |
| PA3948 | 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) | Safety | Cormac McCarthy, Elisabetta Renzoni |

ERS International Congress 2023
DETAILED PROGRAMME
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PA3951  DIAGNOSTIC VALUE OF KL-6 AND GDF-15 IN LYMPHANGIOLEIOMYOMATOSIS.
Marta Garcia Moyano (Barakaldo, Spain), Borja Santos Zorrozua, Eva Tabernero Huguet, Francisco Javier Martinez Núñez, Vanessa Zorrilla Lorenzo, Beatriz González Quero, Beatriz Gómez Crespo, Leticia Cebeiro Hualde, Edurne Echevarria Guerrero, Laura Cortezón García, 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

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 Tosher

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 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
Sandeept Sahay (Houston, United States), Nelson Villasmil-Hernandez, Frederick Wang, Matthew Wooten, Duc Nguyen, Raymond Benzi, 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 Di Santostefano, Amélie Beaudet, Holger Gunz, Andrew Sadler, Ellen Janssen, Axel Mühlbacher
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<th>PA3966</th>
<th>Concordance between physician and patient reported presence of symptoms in patients with pulmonary arterial hypertension in the US, Europe and Japan</th>
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<td></td>
<td>Rogier Klok (Twello, Netherlands), R James White, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch</td>
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<tr>
<th>PA3967</th>
<th>Higher circulating prolactin associates with lower mortality in pulmonary arterial hypertension</th>
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<td></td>
<td>Wen-Hui Wu (Shanghai, China), Hui Zhao</td>
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<tr>
<th>PA3968</th>
<th>Lowering of Mean Pulmonary Arterial Pressure is a Prognostic Marker in Pulmonary Hypertension Patients treated with Subcutaneous Treprostinil</th>
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<tr>
<td></td>
<td>Roela Sadushi-Kolici (Wien, Austria), Inbal Shafran, Nika Skoro-Sajer, Christian Gerges, Irene Lang</td>
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<tr>
<th>PA3969</th>
<th>Health related quality of life in pulmonary arterial hypertension in the US, Europe and Japan</th>
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<td></td>
<td>Rogier Klok (Twello, Netherlands), Carmine Dario Vizza, Julia Harley, Mark Small, R James White, Dominik Lautsch</td>
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<tr>
<th>PA3970</th>
<th>Biomarkers for diagnosis and disease severity in precapillary pulmonary hypertension.</th>
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<td></td>
<td>Katarzyna Rososinska (Kirkel, Germany), Philipp Markwirth, Ralf Kaiser, Franziska Trudzinski, Bettina Weingard, Robert Bals, Heinrike Wilkens</td>
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<tr>
<th>PA3971</th>
<th>Prognostic impact of pulmonary diffusing capacity for carbon monoxide in pulmonary hypertension</th>
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<td></td>
<td>Milan Mohammad (Østerbro, Denmark), Jacob Peter Hartmann, Jørn Carlsen, Jann Mortensen, Ronan Martin Griffin Berg</td>
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<tr>
<th>PA3972</th>
<th>Residual risk identified in routine non-invasive follow-up assessments in pulmonary arterial hypertension</th>
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<tr>
<td></td>
<td>Jonna Ostermann (Hamburg, Germany), Julian Pott, Jan K Hennigs, Kevin Roedl, Christoph Simming, Lars Harbaum, Hans Klose</td>
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<th>PA3973</th>
<th>Vasoreactivity in combined pre- and post-capillary pulmonary hypertension and survival</th>
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<tr>
<td></td>
<td>Eileen Harder (Boston, United States), Farbod Rahaghi, Miguel Divo, George Washko, Aaron Waxman</td>
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<tr>
<th>PA3974</th>
<th>Role of 6-MWT and NT-proBNP in the evaluation of survival in Pulmonary Arterial Hypertension</th>
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<td>Chiara Milano (Saronno, Italy), Andrea Lombi, Lorenzo Volpiano, Giulia Pittalis, Marta Tundo, Riccardo Ripamonti, Paola Alfieri, Paola Faverio, Fabrizio Luppi, Giuseppe Paciocco</td>
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**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)

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<tr>
<th>PA3975</th>
<th>Comparing patient experiences of FOT and Spirometry - A survey</th>
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<tr>
<td></td>
<td>Shruti Sahasrabudhe (Pune (Maharashtra), India), Nagesh Dhadge, Kameshwar Rao, Harshvardhan Vhora, Reenkal Ahire</td>
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<th>PA3976</th>
<th>A randomised controlled trial of self vs clinician-taught home spirometry</th>
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<td></td>
<td>Caitlin Morgan (Bristol, United Kingdom), Daniel Hibgee, Catherine Dixon, Emma Buckroyd, Huzaifa Adamali, Shaney Barratt, Rahul Shrunkanker, Paul White, James Dodd</td>
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<th>PA3977</th>
<th>Validation of the 2012 Global Lung Initiative spirometry prediction equations in an East African country</th>
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<td></td>
<td>Husseim Mdanga (Dar es Salaam, Tanzania), Simon Mamuya, Bente Elisabeth Moen, Cecilie Svanes</td>
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<th>PA3978</th>
<th>Study of the reversibility rate according to different definitions of ATS/ERS</th>
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<td></td>
<td>Omayma Ben Lakhal (SFAX, Tunisia), Hela Cherif, Amal Chennoufi, Salma Mokadem, Mariem Triki, Ferdaous Yengui, Mohamed Ridha Charfi</td>
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<tr>
<th>PA3979</th>
<th>Impact of the 2021ATS/ERS update criteria on the bronchodilator responsiveness test result</th>
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<td></td>
<td>Beatriz Martins (São Mamede De Infesta, Portugal), Pedro Amorim, Miguel Narciso, Anabela Marinho</td>
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<th>PA3980</th>
<th>Bronchodilator responsiveness in Patients with Asthma and COPD: 2005 vs 2021 ERS/ATS criteria</th>
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<tr>
<td></td>
<td>Chaïma BRIKI (ariana, Tunisia), Khouloud Kchaou, Balsam Barkous, Sirine Jamli, Saloua Ben Khamsa Jameleddine</td>
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<th>PA3981</th>
<th>Temporal validation of a clinical prediction model for methacholine challenge testing</th>
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<td>Mathieu Saint-Pierre (Ottawa, Canada), Joseph Abdulnour</td>
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<th>PA3982</th>
<th>Etiological and functional characterization of mixed ventilatory impairment in Tunisian patients</th>
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<tr>
<td></td>
<td>Balsam Barkous (ARIANA, Tunisia), Khouloud Kchaou, Soumaya Khalidi, Chaïma Briki, Sirine Jamli, Saloua Ben Khamsa Jameleddine</td>
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<th>PA3983</th>
<th>Role of vitamin D in modulating inflammation in obesity-associated asthma.</th>
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<tr>
<td></td>
<td>Naouel Chibout (Constantine, Algeria), Mohamed Bougrida, Omar Chabati, Mohamed Kheireddine Bourahli</td>
</tr>
</tbody>
</table>
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

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

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

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 Kous, Panayiotis K. Yiallouros, Pinelopi Anagnostopoulou

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

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 Ratruakorn, Sarayut Lucien Geater

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

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

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

Disease Severity and Ongoing Inflammation after Sars-Cov-2
Catherine Farrow (Westmead, Australia), Robert Robles, Terance Amis, Kristina Kairaitis

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

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

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

Seven years of functional lung MRI in children: experiences of more than 900 matrix-pencil decomposition (MP-
M)MRI measurements in clinics and research
Carmen Streibel (Bern, Switzerland), C. Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Enno Stranzinger, Ben Brabant, Marion Curdy, Yasmin Salem, Carmen Casaulta, Insa Korten, Sophie Yanmine, Philipp Latzin, Elisabeth Kieninger
PA3997 Higher pulmonary artery and vein volumes are associated with disease severity and mortality in smokers with and without COPD
Natascha 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 Radiologic features of COPD exacerbations: quantitative analysis of thorax computerised tomography
Selin Ercan (Gothenburg, Sweden), Ali Canturk, Emre Ruhat Avcı, Naciye Sinem Gezer, Saliha Selin Ozuygur Ermis, Gozde Tokatlı, Gökçen Omeroglu Simsek, Pınar Balçı, Aylin Ozgen Alpaydın

PA3999 Defining a CT phenotype of severe COPD patients who develop hypercapnia
Renzo Boersma (Groningen, Netherlands), Peter Wijkastra, Jorine Hartman, Marieke Duiverman

PA4000 Correlation between frailty and reduced cortical thickness in Chronic Obstructive Pulmonary Disease.
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 Inter-disease variability in Dynamic Chest Radiography measurements and Pulmonary Function Tests in patients with Asthma, COPD and ILD
Rachel Burton (Liverpool, United Kingdom), Michael Cheung, Ryan Robinson, Fred Fyles, Thomas Fitzmaurice, Hassan Burhan

PA4002 Comparison of HRCT and SPECT in the estimation of emphysema heterogeneity for endoscopic lung volume reduction
Eleni Papakonstantinou (Basel, Switzerland), Tim Jonas Hallenberger, Meropi Karakioulaki, Desiree Schumann, Michael Tamn, Daiana Stolz

PA4003 Optimized detection of pulmonary emphysema on CT scans of lung cancer screening participants
Haiyan Liu (Groningen, Netherlands), Daiwei Han, Marleen Vonder, Marjolein Heuvelmans, Jaeyoun Yi, Zhaoxiang Ye, Harry De Koning, Matthijs Oudkerk

PA4004 The clinical significance of CT-Thorax in the assessment of difficult to treat Asthma
AMER ALMAGRABI (BIRMINGHAM, United Kingdom), Ali Bahron, Julie Marsh, Adel Mansur

PA4005 Needle based confocal laser endomicroscopy for real-time granuloma detection
Saskia van Heumen (Amsterdam, Netherlands), Tess Kramer, Lizzy Wijmans, Christopher Manley, Sandeep Bansal, Dawn Jeannerat, Martijn De Bruin, Peter Bonta, Jouke Annema

PA4006 Sensitivity of chest x-ray for visualisation of one brand of indwelling pleural catheter
Sophie Edgell (Newcastle, Australia), John Harrington, Vineeth George

PA4007 HRCT composite fibrosis score correlates with clinical and physiological parameters in IPF
Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lenne Collatz Lastrup, Saher Burhan Shaker

PA4008 Significance of FDG uptake in nodes of IPF patients undergoing PET imaging
Jagdeep Sahota (Letchworth Garden City, United Kingdom), Balaji Ganeshan, Thida Win, Francesco Fraioli, Raymondo Endozo, Robert Shortman, Ashley M Groves, Joanna C Porter

PA4009 Assessing the impact of local lung cancer screening on our regional interstitial lung diseases service
Raja Mathusami (Hereford, United Kingdom), Shiva Biskmalla, Imran Hussain, Helen Stone

PA4010 Endoscopic measurement of parenchymal near infrared radiation transmittance correlates with HRCT derived lung tissue density in lung fibrosis patients.
Jiří Votruba (Praha 2, Czech Republic), Zuzana Šestáková, Tomas Bruha

PA4011 A missed opportunity - fibrosis on previous abdominal CTs in patients referred to an ILD clinic
Jude Wellens-Mensah (Perth, United Kingdom), Matthew Embley, Paul Cadden, Mudher Al-Khairalla, Peter Williamson, Mark Spears

PA4012 Observer agreement in the diagnosis of interstitial lung diseases
Rebecca Saray Marchesini Stival (Rio Grande (RS), Brazil), Bruno Pedrazzani, Arielle Haagsma, Cristina Pellegroino Baena

PA4013 Spirometry and chest HRCT abnormalities in symptomatic and asymptomatic patients with inflammatory bowel disease
Asmaa Mohammed Elshazly (Alexandria, Egypt), Rasha Dabees, Mahmoud Reda, Fahmy Hablas, Ahmed Samir, Nashwa Abdel-Wahab
**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 Özsancak Uğurlu (Istanbul, Turkey), Maxime Patout (Paris, France)

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**PA4014**
Efficacy and safety of high flow nasal oxygen therapy compared to conventional oxygen therapy in postoperative pulmonary complications: a systematic review and metaanalysis  
Jonni Fay Teves (Quezon City, Philippines), Noreen Ada Mangugan, Joann Kathleen Garcia

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**PA4015**
Ratio of oxygen saturation index and outcomes of high flow oxygen in post-extubated patients: a cohort study  
THTI SRIČHAROENCHAI (Bangkok, Thailand), Metanee Songrin

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**PA4016**
Systematic review of high-flow noninvasive support (HF) for respiratory failure (RF): identifying sources of survival variation with meta-regression.  
Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black

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**PA4017**
The reverse flow in upper airways during asymmetrical nasal high flow ventilation  
Natalia Kabaliuk (Christchurch, New Zealand), Zane Goggin, Stanislav Tatkov

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**PA4018**
The effect of the asymmetrical Optiflow nasal cannula on aerosol performance  
Elena Fernández Fernández (Galway, Ireland), Marc Mac Giolla Eain, Mary Joyce, Ronan Mac Loughlin

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**PA4019**
Effective flow rates and decarboxylation differs between nasal high-flow devices  
Jens Bräunlich (Leipzig, Germany), Hubert Wirtz

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**PA4020**
Nosocomial Pneumoniae in Patients with SARS-CoV-2 ARDS undergoing NIV  
Federica Olmati (Roma, Italy), Alessandra Oliva, Pia Baioocchi, Angelo Petroianni, Corina Tomsa, Gianluca Paciucci, Flavio Mirabelli, Claudio Maria Mastroianni, Paolo Palange

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**PA4021**
Determinants of in-hospital mortality in Acute Non-invasive Ventilation (NIV): is door-to-mask time a strong predictor?  
Ahmed Alqahtani (Birmingham, United Kingdom), Ellen Snell, Alastair Watson, Pearleone Antoine-Pitterson, Bethany Jones, Biman Chakraborty, Rahul Mukherjee

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**PA4022**
HACOR SCALE TO PREDICT FAILURE IN NONINVASIVE VENTILATION (NIV): CLINIMETRIC PROPERTIES  
Adriana C. Lunardi (São Paulo (SP), Brazil), Matheus Pereira, Kaoany Moreira

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**PA4024**
Evaluation of a ‘level of dependency withdrawal of NIVs framework’ in end-of-life respiratory failure patients.  
Mary Lafferty (Sydney, Australia), Mary Dunford, Heidi Green, Alexandra Smith, Caitlin Sheehan, Ritin Fernandez

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**PA4025**
Conservative oxygen supplementation during helmet CPAP therapy in patients with COVID-19 and respiratory failure: a pilot study  
ALESSANDRA IACOVELLI (Roma, Italy), Maria Luisa Nicolardi, Valentina Baccolini, Federica Olmati, Ilenia Attilia, Pia Baiocchi, Letizia D'Antoni, Ilaria Menichini, Ambra Migliarini, Daniela Pellegrino, Angelo Petroianni, Daniel Piamonti, Angela Tramontano, Paolo Villari, Paolo Palange

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**PA4026**
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  
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 Recuera, Ester Zamarrón De Lucas, Carlos Carpio Segura, Enrique Zamora García, Elena García Castillo, Elena Avalos Pérez-Urría, Maria Teresa Ramirez Prieto, José Andrés García Romero De Tejada, Raúl Moreno Zabaleta

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**PA4027**
mortality in admitted patients with ILD and respiratory failure: Observational analysis  
Mudassar Razzaq Khan (Solihull (West Midlands), United Kingdom), Sameen Toor, Rachel Mundin, Padmavathi Parthasarathy, Syed Geelani, Hassan Choudry, Fasihul Khan, Felix Woodhead, Charlotte Swales

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**PA4028**
Nasal High Flow Therapy (NHT) for Acute Respiratory Failure (ARF) in Interstitial Lung Disease (ILD) patients  
Cindy Eng (Leeds, United Kingdom), Shan Liung Liew, Laura Horgan, Muthu Thirumaran, Akshay Dwarakanath

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**PA4029**
Use of UCL Ventura (Wayrachi) device as CPAP or HFNC in patients with severe respiratory failure due to COVID 19 pneumonia  
Cecilia Lucia Pérez Muñante (Lima, Peru), Edwin Hernando Herrera Flores, Mario Daniel Danilla Dávila, Shanery Norma Gonzáles Vargas, Tatiana Luz Migrellla Coba Taboada, Nancy Pamela Tapia Mantilla, Marco Ricardo Pérez Valencia
PA4030 Audit of NIV Settings Initiation in Acute Hypercapnic Respiratory Failure
Ghulam Haider Khan (Westmalling, United Kingdom), Hani Moosavi, Milad Jeilani, Stefan Sleiman, Zahra Almas Khan, Sarbiland Khan

PA4031 High flow nasal cannula and non-invasive ventilation for patients with COVID-19
David Shu Cheong Hui (Shatin, Hong Kong), Louise Yung, Ken Chan, Susanna Ng, Grace Lui, Fanny Ko, Tat On Chan, Karen Yiu, Matthew Chan, Hui Ling Yen

PA4032 High intensity non invasive ventilation in management of acute hypercapnic respiratory failure of COPD
Khaled Hussein (Assiut, Egypt), Samiaa Hamdy, Ahmed Hamed, Maha Eissa

PA4033 Inhaled delivery of nezulcitinib with nasal high-flow oxygen in healthy participants
Edmund Moran (South San Francisco, United States), Nathan Pfeifer, Wayne Yates, Rajeev Saggar, David Bourdet

PS-4 in poster area Session 390 08:00 - 09:30
Poster session: Novel insights in respiratory disease-related mechanisms

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Physiology, Pulmonary function testing
Tag(s): Translational

Chairs: Reinoud Gosens (Groningen, Netherlands), Serena Di Vincenzo (Palermo (PA), Italy)

PA4034 Exploring the role of non-coding RNAs in alveolar epithelial damage in pulmonary fibrosis
Chiara De Santi (Dublin, Ireland), Konstantinos-Dionysios Alysandratos, Fiorella Calabrese, Killian Hurley

PA4035 The effect of highly selective furin inhibition on matrix metalloproteinases in cystic fibrosis
Bethany Montgomery (Belfast, United Kingdom), Lisa Douglas, Tatjana Ondrlji, Lorraine Martin

PA4036 The emergence of myeloid-derived suppressor cells in a murine model of pulmonary fibrosis
Saeed Kolahian (Marburg, Germany), Nora Vedder, Philipp Gerecke, Nikoleta Lautenschlager, Chiel Van Geffen, Jakob Schieb, Tobias Brunn, Tim Lange, Charlotte Vetter, Harald Renz

PA4037 The involvement of myeloid-derived suppressor cells in the pathogenesis and lung functional impairment in bronchiectasis
Andreas M. Matthaiou (Drafi, Rafina-Pikermi, Attica, Greece), Nikoleta Bizymi, Georgios Petsidianakis, Nikolaos Tzanakis, Katerina M. Antonioi

PA4038 IL-17A drive oxidative stress and cell growth in A549 cell line: potential protective action of Mediterranean diet
Mirella Profita (Palermo (PA), Italy), Angela Marina Montalbano, Rosalia Paola Gagliardo, Giusy Daniela Albano

PA4039 Loss of PTEN activity in COPD airway epithelial cells is modulated by miR-21
Vanessa Ho (London, United Kingdom), Jonathan R Baker, Keith R Willson, David R Klug, Peter J Barnes, Louise E Donnelly

PA4040 Small extracellular vesicles mediated pathological communications between dysfunctional airway epithelium cells and skeletal muscle cells as a novel mechanism induced skeletal muscle dysfunction in COPD
Mingming Deng (Beijing, China), Gang Hou

PA4041 Terminal cell morphology and fitness is influenced by Cigarette Smoke Exposure in Drosophila melanogaster with ORMDL and Sccal dysregulation
Birte Ehrhardt (Borstel, Germany), Beate Höschler, Susanne Krauss-Etschmann, Thomas Roeder

PA4042 TSLP and oxidative stress: two associated events reflecting airway epithelium injury upon cigarette smoke exposure
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Maria Ferraro, Bernardo Patella, Paola Pinto, Valentina Lazzara, Rosalinda Inguaanta

PA4043 The activity of the anti-inflammatory mediator lipoxin A4 in COPD
Nataliia Habshydze (Dnipro, Ukraine), Tetyana Pertseva, Nataliia Sanina, Svitlana Panina

PA4044 High-fat and high-sugar diet does not impair lung function parameters assessed by double chamber plethysmography in juvenile male Brown Norway rats
Kamil Ziarniak (Poznan, Poland), Wojciech Langwiński, Pawel Antoni Kołodziejski, Ewa Pruszyńska-Oszmałek, Anna Łukomska, Maciej Sassek, Dawid Szczepankiewicz, Aleksandra Szczepankiewicz

PA4045 Transcriptomic and chromatin accessibility analysis of human small airway epithelial cells reveals epigenetic regulatory mechanisms in circadian genes under cigarette smoke exposure
Zijian Zeng (CHENGDU, China), Ke Wang, Mengxin Cheng, Lijuan Gao, Jun Chen, Tao Wang, Fuqiang Wen
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

REV-ERBα 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

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

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 Gülşüm Karakas (erzurum, Turkey), Zeynep Ferhan Özşeker

Smd3-mediated IncRNA HSALR1 enhances the non-classic signaling pathway of TGF-β1 in HBFs by binding to HSP90AB1
Erakng Yi (Guangzhou, China), Pixin Ran

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 Guttber, Martin Russ, Philipp A. Pickerodt, Claudia Spies, Mei Li, Laura Michalick, Jörg Scheffel, Marcus Maurer, Heinz Feihrenbach, Norbert Suttrop, Armin Braun, Norbert Weissmann, Wolfgang M. Kuebler, Martin Witzenrath

AhR controls pulmonary inflammation from cannabis smoke
Emily Wilson (Montreal, Canada), David Eidelberg, Carolyn Baglole

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 Yıldırım

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

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

Anthracosis 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

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 Mackinson, Nikhil Hirani, Jie Wang-Jairaj, Brigitta Bodák, Anne Kümmel

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

β-glucan enhances LPS-induced acute lung injury via alveolar macrophages reprogramming
Renaud Prévot (Bordeaux, France), Erwan Fernet, Sadek Abderrahmane, Shradha Wali, Kim Tran, Mina Sadeghi, Renata Sindeaux, Leonardo Jurado, Jérémie Poschmann, Maziar Divangahi
Micheliolide exerts immunomodulatory effect by reducing Oxidative Stress-Induced mitochondrial dysfunction in acute lung injury
WenHan Li (guangzhou, China), Ying Meng

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

PPARγ inhibits small airway remodeling through mediatiing the polarization homeostasis of alveolar macrophages in COPD
Dan Wang (Chongqing, China)

Alveolar macrophage carbon is associated with COPD severity.
James Baker (MANCHESTER, United Kingdom), Sophie Booth, Josiah Dungwa, Andrew Higham, Dave Singh, Simon Lea

Profiling inflammatory cell populations in endobronchial biopsies from patients with asthma COPD overlap (ACO)
Wenying 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

LSC - 2023 - Clinical significance of macrophage-lymphocyte rosettes (MLRos) formation in patients with bronchia l asthma (BA)
Tamar Saralidze (Tbilisi, Georgia), Tamari Svanidze, Marina Noniashvili, Medea Jgarkava

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

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

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 Greenhalph, Matthew Richardson, Ruth Saunders, Rachael A. Evans, Louise V. Wain, Christopher Brightling, Lance Turtle, Ryan S. Thwaites, Peter J.M. Openshaw

Dysbiosis of lung commensal microbiota suppressed the progression of lung adenocarcinoma via spp1+ macrophages jin jing (Chengdu, China), Hou Wang, Li Shiyue

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

Poster session: Telemedicine and diagnostic tools for sleep-disordered breathing
08:00 - 09:30
Session 392
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)

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

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

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 Luisa Vieira, Lurdes Ferreira

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

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
A retrospective review of the impact of virtual CPAP set-up on outcomes
Jo Leng Lum (London, United Kingdom), Chevanthy Gnanalingam, Sandip Banerjee

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, Alessandra Castrogiovanni, Chiara Cappiello, Marta Amata, Eva Palano, Laura Carrozzo, Maria Rosaria Bonsignore

Telemonitoring of obstructive sleep apnoea (OSA) patients on positive airway pressure (PAP) therapy in Malaysia
Mei Ching Yong, Yik Hon Ho, Caryn Sujean Lim, Nga Hung Ngu, Chan Sin Chai, Swee Kim Chan, Sze Shyang Kho, Siew Teck Tie

Acceptance and cost-effectiveness of telemedicine in patients with obstructive sleep apnea: a single-center randomized controlled trial
Qiong Ou, Guo Pei, Miaochan Lao, Longlong Yang, Yanxia Xu, Jiaoying Tan, Gaihong Zheng

EFFECT OF TELEREHABILITATION ON SLEEP DISORDERS IN OBESE CHILDREN AND ADOLESCENTS DURING THE COVID-19 PANDEMIC: A QUASI-EXPERIMENTAL STUDY WITH FOLLOW-UP
Evelin Gomes, Josiane Luiz, Manoella Andrade, Luciana Sampaio, Dirceu Costa

Quality assessment of sleep studies – comparison between face-to-face teaching and video demonstration
Joana Vieira Naia, Diana Pimenta, Elisabete Santa Clara, Daniela Rodrigues, Mafalda Van Zeller, Marta Drummond

CORRELATION BETWEEN CONNECTED BRACELETS AND POLYSOMNOGRAPHY IN SLEEP ASSESSMENT
Maha Ezzine, Salma Animi, HALIMA ELBOUJAMAI, Mohamed Elbiaze, Amara Bouchra, Mohamed Chakib Benjelloun

Model for the selection of candidate patients for respiratory polygraphy

In what body positions do people with OSA sleep?
Belinda Rose Miller, Christiaan Yu, Renel Cuesta, Eldho Paul, Teanau Roebuck

Night-to-night short-term variability in apnea-hypopnea index: analysis of the associated conditions
Renaud Tamisier, Jean-Benoit Martinot, Jean-Louis Pépin, Sébastien Bailly, Nhat-Nam Le-Dong

Drug induced sleep endoscopy in obstructive sleep apnea
IGNACIO JARA, Sara González, Ana Victoria Castillo, María Ponte, Winnifer Briceno, Ana Retegui, Diego Durán, Camen Rodríguez, Alberto Carreño, Rafael Barberá, Antonio Pedrera, Lourdes Montes, Andrea Pérez, Aldara García, Irene Cano, Eva Mailas

Evaluation of anxiety and depression in patients with obstructive sleep apnea syndrome
oussama Tabka, Oussema Tabka, Soumaya Bouchareb, Soumaya Boujneh, Leila Boussoffara, Laila Kheni, Nadia Boudawara

PSG differences in sleepy versus non-sleepy obstructive sleep apnea (OSA) patients
Izolde Bouloukaki, Theofilis Vouis, Theofilis Vous, Antonios Velidakis, Eleni Mavroudi, Giorgos Sthathakis, Michail Fanaridis, Sophia Schiza

Obstructive sleep apnoea during rapid-eye movement sleep is predictive for response to treatment in patients with parasomnias
Fatima Saqib, Bryn Morris, Andras Bikov

In what body positions do people with OSA sleep?
Belinda Rose Miller (Melbourne (VIC), Australia), Christiaan Yu, Renel Cuesta, Eldho Paul, Teanau Roebuck

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Obstructive sleep apnoea during rapid-eye movement sleep is predictive for response to treatment in patients with parasomnias
Fatima Saqib, Bryn Morris, Andras Bikov
PA4093 Mepolizumab improves small airway disease in severe eosinophilic asthmatics
Francesca Cefaloni (Rome, Italy), Cristina Boccabella, Luca Richelli, Matteo Bonini

PA4094 A retrospective cohort study to determine if Interluekin 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 Polyangiitis (EGPA) at Jersery 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, Elida Graziani

PA4097 Long-term effectiveness of Mepolizumab in patients with refractory severe eosinophilic asthma.
Víctor García García (Sevilla, Spain), BELEN Muñoz Sánchez, Francisco Javier Alvarez Gutierrez, Juan Francisco Medina Gallardo, Auxiliadora Romero Falcón, María Victoria Maestre Sánchez, Ana Gomez Bastero Fernández, Stefan Cimolbek, 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 Cisarano, Maria Filomena Catarì, Giulia Sciocia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papia, Alessandra Tomasello, Nicola Scichilone, Girolamo Pelaia, Claudia Crimi, Giovanna Elisiana Caragnano

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 Martínez (madrid, Spain), Crishian Alonso Correa Gutierrez, Stephany Ivonne Briones Alvarado, Manuel Mor Martinez, 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 Stanziola

PA4104 Outcomes of blocking IL-5 in severe asthma elderly patients
David Bahas Conejero (Madrid, Spain), Eva Martinez Moragón

PA4105 Benralizumab effectiveness in patients with severe asthma regardless of prior biologic use: A real-world Canadian experience
Sheena Kayaniyl (Mississauga, Canada), Parameswaran Nair, Charles St. Pierre, Katherine Osenenko, Tina Li, Karissa Johnston, Gina Lasteura, 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

PA4107 Retrospective study to assess response to benralizumab in elderly asthma patients
Eve Coleborn (Bristol, United Kingdom), Elizabeth Gamble, Catherine Hyams
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

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 Pardal, Vivian H. Shih, David Cohen, Anat Shavit, Benjamin Emmanuel, David J. Jackson, Parameswaran Nair

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

Late Breaking Abstract - Anti-IL-5 therapy is associated with sustained improvement in FEV1 in severe eosinophilic asthma patients.
Nathan Blecik (Uclee, Belgium), Alain Van Myulem, Jean-Pierre Makhoul, Amaryllis Haccuria, Andrei Malinovschi, Alain Michils

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 Brusso, Maria Filomena Caiiffa, 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

Prognostic value of the GOLD 2023 classification system.
Kristian Brat (Brno, Czech Republic), Michal Svoboda, Jaromir Zatloukal, Marek Plutinsky, Eva Volakova, Patrice Popelkova, Barbora Novotna, Tomas Dvorak, Vladimir Koblizek

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

The CCQographic: a solution for patients with COPD with adequate or limited health literacy.
Erljin Tiel Groenetsege (Willemsstad, Curacao), Bea Sloothaak, Iris Van Geer, Aimee Van De Maat, Naomi Coenraad, Ellen Van Heijst, Natascha Huitzjer-Van Reenen, Kaying Kan, Marijan Kerkhof, Cindy Lentjes, Thys Van Der Molen, Mare Zonneveld, Johannes In’t Veen, Janwillem Kocks

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

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

Anxiety and depression in Chronic Obstructive Pulmonary Disease: a systematic review and meta-analysis
Alina Miah (READING, United Kingdom), Ruihua Hou

Initial findings from two US-based early COPD cohorts: MAP COPD and SOURCE

Al-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 Suk 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’Keefe, Niall Keenan, Dominique Auger, Michael Van Der Watt

PA4144  Characterising radiological abnormalities in early COPD

PA4145  COPD Assessment Test (CAT) Score according to the presence/absence of accelerated lung function decline in young adult smokers with normal FEV1

PA4146  Etiotypes of persistent airflow obstruction in the general population in different age bins
Marie Grasl (Wien, Austria), Alvar Agusti, Caspar Schiffera, Owaat 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 Chefkhaou, 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 Bjerrhave 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 Oualaaya, Jean-Louis Paillas, 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
08:35 Augmented fluoroscopy  
Amir Abramovich (Hasolelim, Israel)  

08:50 Cone beam  
Pallav L. Shah (London, United Kingdom)  

09:05 Robotic bronchoscopy  
Felix J.F. Herth (Heidelberg, Germany)  

09:20 Bronchoscopic tumour ablation  
Kelvin Lau (London, United Kingdom)  

09:35 Discussion and Q&A  
All Speakers  

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  

Method(s): General respiratory patient 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 Therapeutic strategies in paediatric severe asthma  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)  

08:45 Neutrophilic inflammation throughout the ages  
Rory Morty (Heidelberg, Germany)  

09:00 Management of persistent OSA in children  
An Boudewyns (Edegem (Antwerp), Belgium)  

09:15 High-flow nasal cannula (HFNC) therapy for bronchiolitis and in continuous treatment for respiratory insufficiency  
Padmanabhan Ramnarayan (London, United Kingdom)  

09:30 Discussion and Q&A  
All Speakers  

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  

Method(s): General respiratory patient care  

Tag(s): Clinical  

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training
**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 (Zollikerberg, Switzerland)
- Jana De Brandt (Umeå, Sweden)

**Coral 3 Session 399 08:30 - 10:00**

08:30  **Exercise: the role of inter-organ crosstalk and cellular communication**
Ronan Berg (København N, Denmark)

08:45  **Effect of exercise training on the muscle in CRD: success guaranteed!**
Lorna Latimer (Rugby (Warwickshire), United Kingdom)

09:00  **Helping out the muscle-brain axis during exercise in fibrosing interstitial lung disease: we are on our way!**
Mathieu Marillier (Echirolles, France)

09:15  **Patient's perspective**
Jean-Michel Fourrier (Saint-Aubin-de-Medoc, France)

09:20  **Effect of exercise training on lung regeneration in CRD: an illusion or a future reality?**
Ulrik Winning Iepsen (Copenhagen, Denmark)

09:35  **Discussion and Q&A**
All Speakers

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**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)
**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**  
  **A general overview of the concept of preconception origins of respiratory disease: what is the epidemiological evidence so far?**  
  Cecilie Svanes (Bergen, Norway)

- **08:45**  
  **The experimental view of how infections may impact health and disease across generations**  
  William Horsnell (Exeter, United Kingdom)

- **09:00**  
  **Transgenerational epigenetic impacts of parental infection on offspring health and disease susceptibility**  
  Anthony J Hannan (Parkville, Australia)

- **09:15**  
  **Can COVID-19 and tuberculosis influence epigenetic signalling in a way that can impact immunity of the next generation?**  
  Maria Lerm (Linköping, Sweden)

- **09:30**  
  **Discussion and Q&A**  
  All Speakers
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 Pneumothorax in critically ill patients
Marco Nardini (Leeds, United Kingdom)

08:45 Complex empyema in critically ill patients
David Sanchez (Barcelona, Spain)

09:00 Chylothorax and bronchopleural fistulas
Mario Nosotti (Milano (MI), Italy)

09:15 Discussion and Q&A
All Speakers

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 Discussion and Q&A
All Speakers

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 Making sense of chronic cough: hypersensitivity, hyper-reactivity or idiopathic patient phenotypes?
Lorcan McGarvey (Belfast, United Kingdom)

09:25 Discussion and Q&A
All Speakers

09:35 Environmental and occupational exposure in interstitial lung diseases: an update
Francois Huaux (Bruxelles, Belgium)

09:50 Discussion and Q&A
All Speakers

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 different 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
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<tr>
<td>OA4197</td>
<td>LSC - 2023 - Defining and modelling the fibrotic niche in lung fibrosis</td>
<td>Joseph Bell (Southampton, United Kingdom), Michael Eyres, Elizabeth Davies, Zijian Xu, Yihua Wang, Gayle Marshall, Donna Davies, Emily Offer, Mark Jones</td>
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<td>OA4198</td>
<td>Spatial transcriptomic analysis reveals similar gene expression patterns in the Long COVID and IPF lungs.</td>
<td>Aurélien Justet (Caen, France), Claudia Ravaglia, Amy Zhao, Nibal Al Hussein, Taylor Adams, Agshin Balayev, Joe Deluissi, Naftali Kaminski, Sara Tomassetti, Venerino Poletti</td>
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<td>OA4199</td>
<td>STING inhibitor ameliorates senescence via inhibiting cGAS-STING pathway in Idiopathic Pulmonary Fibrosis</td>
<td>Lorena Rosas (Columbus, United States), Natalia-Del Pilar Vanegas, Madeline Riley, Ericà L Dale, Victor Peters, Sean D Stacey, Marc Kaestle, Peter Seither, Ana L Mora, Mauricio Rojas</td>
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<td>OA4200</td>
<td>Targeting pro-inflammatory and pro-fibrotic monocyte phenotype using novel mitochondria-targeted hydrogen sulfide delivery</td>
<td>Elena Leonova (Exeter, United Kingdom), S.L. Barratt, M.A. Lindsay, M.A. Gibbons, M. Whiteman, C.J. Scotton</td>
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<td>OA4201</td>
<td>Hyaluronic acid decorated-liposome loaded with Imatinib: an in vitro study as targeted drug delivery system for lung fibrosis</td>
<td>Eleonora Bozza (Pavia, Italy), Sara Bozzini, Cecilia Bagnara, Valeria Bincoletto, Ilaria Andreana, Barbara Stella, Laura Pandolfi, Elisa Cacciatore, Sara Lettieri, Silvia Arpicco, Federica Meloni</td>
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<td>OA4202</td>
<td>Therapeutic effects of ALK5i on pulmonary function and fibrosis in a high-fat diet + bleomycin-induced and spirometry-confirmed mouse model of IPF</td>
<td>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</td>
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<td>OA4203</td>
<td>SMAC Mimetic as potential anti-fibrotic therapy in an in vivo model of Bleomycin-induced Pulmonary Fibrosis</td>
<td>Natalia Vanegas (Columbus, United States), Lorena Rosas, Paula Aguadelo Garcia, Stephanie Scott, Madeline Riley, Ericà L Dale, Jazmin Calyeca, Victor Peters, Marc Kaestle, Peter Seither, Ana L Mora, Mauricio Rojas</td>
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<td>OA4204</td>
<td>A 3D organoid model mimicking honeycomb cysts in idiopathic pulmonary fibrosis</td>
<td>Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigca, Victor Peters, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler</td>
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**Discussion and Q&A**

All Speakers
LSC - 2023 - Resolution of inflammation in long COVID
Sean Knight (Manchester, United Kingdom), Madhvi Menon, Bethany Pott, Tracy Hussell, Thomas Williams, John Grainger, Joanne Konkel, Elizabeth Mann, Angela Simpson, Laurence Pearmain, Alexander Mathioudakis, Geoffrey Lownman, Shruti Sarda, Altan Turkoglu, Loni Pickle, Michelle Toro

Patients on mepolizumab, benralizumab, or dupilumab have diminished post-vaccination antibody and B cell responses to SARS-CoV-2.

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)

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 (Schwenzau am Königssee, Germany), Inga Jarosch, Daniela Letl, Rainer Gloeckl, Clancy John Dennis, Andreas Rembert Koczulla

Symptom burden in COPD: a clustering approach
Sarah Houben-Wilke (Horn, Netherlands), Qichen Deng, Daisy Janssen, Frits Franssen, Martijn Spruit

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

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

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 Vogiaztis

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

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

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

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

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, Maríangela 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
### 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 Tsikrika (Athens, Greece)

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<td><strong>OA4227</strong> Discussion and Q&amp;A All Speakers</td>
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<td><strong>OA4228</strong> Late Breaking Abstract - Alpha-1 Antitrypsin deficiency and risk of cancer: A Nationwide cohort study</td>
<td>Nanna Korsbæk (Køge, Denmark), Eskild Landt, Sarah Marott, Börge Nordestgaard, Morten Dahl</td>
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<td><strong>OA4229</strong> The causal relationship between smoking conditions and telomere length: a mendelian randomization study in UK biobank</td>
<td>Siyu Dai (Hangzhou, China), Feng Chen</td>
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<td><strong>OA4230</strong> E-cigarette use and quality of life in young adults: a Canadian health measure survey study</td>
<td>Teresa To (Toronto (ON), Canada), Cornelia M. Borkhoff, Chung-Wai Chow, Theo J. Moraes, Robert Schwartz, Nicholas T. Vozoris, Christopher Langlois, Kimball Zhang, Emilie Terebessy, Jingqin Zhu</td>
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<td><strong>OA4231</strong> Smoker control or tobacco investment?: Incentives given to tobacco industry</td>
<td>Elif Dagli (Istanbul, Turkey), Tanzer Gezer, Osman Elbek, Banu Salepci, Pinar Bostan, Pinar Ay, Murat Ceyhan, Fusun Yıldız, Murat Guler</td>
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<td><strong>OA4232</strong> General perceptions of general practitioners in Istanbul on e-cigarettes as smoking cessation aids</td>
<td>Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Ayşe Emel Onal, Selma Karabay, Meryem Merve Ören, Mahmut Talha Ucar, Chris Barton</td>
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<td><strong>OA4233</strong> Smoking status in women with normal and complicated pregnancy.</td>
<td>Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Kravchenko, Tetiana Kiriieeva, Tetiana Pertseva</td>
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<td><strong>OA4234</strong> Acute vascular effects following e-cigarette inhalation</td>
<td>Amelie Brynedal (Umeå, Sweden), Mikael Kabéle, Jenny Bosson, Lukasz Antoniewicz, Magnus Lundbäck, Anders Blomberg</td>
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<td><strong>OA4235</strong> Oscillometry in the assessment of early smoking-induced airway changes</td>
<td>Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pomppilio, Alessandro Gobbi, Raffaele Dellaca, Owat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffer, Charles G. Irvin, Robab Breyer-Kohansal</td>
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<td><strong>OA4236</strong> Vaping-derived Δ8-THC quinones form cysteine adducts and alter the respiratory epithelium transcriptome</td>
<td>Charlotte Love (Chapel Hill, United States), Hye-Young Kim, Keri Tallman, Ned Porter, Phillip Clapp, Ilona Jaspers</td>
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### 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)

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<td><strong>OA4237</strong> Discussion and Q&amp;A All Speakers</td>
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<tr>
<td><strong>OA4238</strong> Late Breaking Abstract - Factor inhibiting HIF (FIH) as a metabolic switch in lung fibroblasts</td>
<td>Siyuan Wang (southampton, United Kingdom), Liudi Yao, Yilu Zhou, Franco Conforti, Nullin Divecha, Jonathan Swann, Charlie Birts, Donna Davis, Mark Jones, Yihua Wang</td>
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<td><strong>OA4239</strong> Association between airway MMP-12 and DNA methylation in BAL cells in COPD</td>
<td>Jonas Eriksson Ström (Umeå, Sweden), Simon Kebede Merid, Robert Linder, Jamshid Pourazar, Anders Blomberg, Anne Lindberg, Annelie F Behndig, Erik Melen</td>
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<td><strong>OA4240</strong> Fucosyltransferase-2 improves the COPD phenotype through its regulation of E-cadherin</td>
<td>Venkataramana Sidhaye (Baltimore, United States), Carter Swaby, Shreeti Thapa, Bonnie Yeung-Luk, Sahana Ramaswamy</td>
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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 Introduction
All Speakers 4250

10:20 Rheoplasty and cryo spray
Konstantina Kontogianni (Heidelberg, Germany) 4251

10:35 Endoscopic lung volume reduction
Michela Bezzi (Brescia, Italy) 4252

10:50 Indwelling pleural catheter placement and troubleshooting
Mª Rosa Cordovilla Perez (Salamanca, Spain) 4253

11:05 Cryobiopsy
Sara Tomassetti (Florence, Italy) 4254

11:20 Discussion and Q&A
All Speakers 4255

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 Case 1 incl. panel discussion and Q&A - Author: J. N. Eze (Nigeria)
Marielle W.H. Pijnenburg (Rotterdam, Netherlands) 4256

10:37 Case 2 incl. panel discussion and Q&A - Author: M. Cameron (Australia)
David Drummond (Paris, France) 4257

10:59 Case 3 incl. panel discussion and Q&A - Author: N. Kula (Turkey)
Marielle W.H. Pijnenburg (Rotterdam, Netherlands) 4258

11:21 Case 4 incl. panel discussion and Q&A - Author: S. Hartfiel (Germany)
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 The spectrum of PH in lung diseases
Isabel Blanco Vich (Barcelona, Spain) 4260

10:30 Genetic pulmonary vascular disorders as a cause of pulmonary hypertension in adults
David Montani (Le Kremlin-Bicêtre, France) 4261

10:45 Right ventricle adaptation in different types of PH
Frances S. de Man (Amsterdam, Netherlands) 4262

11:00 Any progress in the management of PH in heart failure?
Jean-Luc Vachiery (Bruxelles, Belgium) 4263

11:15 Discussion and Q&A
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 perquisite 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 Clinical and sleep phenotypes
Stefania Redolfi (Cagliari, Italy)

10:30 Physiological phenotypes/endotypes and treatable traits
Danny Eckert (Bedford Park (SA), Australia)

10:45 OSA risk stratification beyond the apnoea-hypopnea index and its relevance to patient-reported outcome measures
Raphael Heinzer (Lausanne, Switzerland)

11:00 Detection of CPAP treatment failures by telemonitoring platforms and proposal of early interventions
Jean-Louis Pépin (Grenoble, France)

11:15 Discussion and Q&A
All Speakers

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 Patient's perspective
Paula Rusu (Romania)

10:20 New developments in tuberculosis diagnosis
Daniela Maria Cirillo (Milano (MI), Italy)

10:35 Tuberculosis treatment monitoring and outcome measures
Derek Sloan (ST ANDREWS, United Kingdom)

10:50 New drugs, new regimens and new ways to design clinical trials
Christoph Lange (Borstel, Germany)

11:05 Interventions to enhance treatment adherence
Raquel Duarte (Porto, Portugal)

11:20 Discussion and Q&A
All Speakers

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 Updates on occupational COPD: towards an expanded view of causation for better prevention
Sara De Matteis (Cagliari, Italy)

10:30 Diet: an underappreciated but promising approach to COPD prevention
Raphaëlle Varraso (Villejuif, France)

10:45 Impact of work-related risks on diagnostics and treatment of asthma
Irmeli Lindström (Helsinki, Finland)

11:00 Hypersensitivity pneumonitis: multiple exposures and one disease
Martina Koziar Vasakova (Praha 10, Czech Republic)

11:15 Discussion and Q&A
All Speakers

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 Patient's perspective
John Solheim (Sætre, Norway)

10:20 Management of dyspnea in ILD
Yet Hong Khor (Melbourne (VIC), Australia)

10:35 Pathophysiology and treatment of cough in ILD
Zhe Wu (London, United Kingdom)

10:50 Fatigue in ILD: a major problem for patients and physicians
Karen Moor (Rotterdam, Netherlands)

11:05 Discussion and Q&A
All Speakers

10:30-11:15 INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1
ERS Stand/World Village Session 420 10:30 - 11:30
Public: Coffee and Clean Air - 3

10:30-11:15 INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1
ERS Stand/World Village Session 420 10:30 - 11:30
Public: Coffee and Clean Air - 3

Pro-Con debate: Are β-blockers beneficial in chronic obstructive pulmonary disease?
Aims: to discuss the use of β-blockers in patients with chronic obstructive pulmonary disease (COPD); to consider the risk-benefit assessment of β-blocker therapy in COPD; to answer the open question of whether there is a place for use of β-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  Pro: Are β-blockers beneficial in COPD?  
Alan Kaplan (Stouffville (ON), Canada)  
4289

10:30  Con: Are β-blockers beneficial in COPD?  
Daiana Stolz (Freiburg, Germany)  
4288

11:00  Discussion and Q&A  
All Speakers  
4290

Amber 1+2  Session 422  10:40 - 13:00
Skills workshop: SW11 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  Introduction  
All Speakers  
4291

10:40  Radiological assessment of pulmonary hypertension  
Deepa Gopalan (LONDON, United Kingdom)  
4292

10:40  Pathological assessment of pulmonary hypertension  
Teodora Radonic (Amsterdam, Netherlands)  
4293

10:40  Echocardiography in pulmonary hypertension  
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)  
4294

10:40  Clinical assessment of pulmonary hypertension  
Anton Vonk Noordegraaf (Amsterdam, Netherlands)  
4295

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 Suratt

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, Shi Yue Li
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

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, Naoki Watanabe, Tsukasa Kadota, Yu Fujita, Daisuke Takekoshi, Shunsuke Minagawa, Takanori Numata, Hiromichi Hara, Kazuyoshi Kuwano

SIL-6Ra 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, Judith Vonk, Gerard Koppelman

Mepolizumab alters the phenotype and activation status of peripheral blood eosinophils in patients with severe eosinophilic asthma
Pablo Migüéns-Suárez (Santiago de Compostela, Spain), Sara Vázquez-Mera, Laura Martelo-Vidal, Uxío Calvo-Álvarez, Raquel Ruiz-Ferrer, 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

Effect of add-on therapies (mepolizumab, omalizumab or azithromycin) on asthma remission in severe asthma
Dennis Thomas (New Lambton Heights, Australia), Vanessa McHondtan, 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 Katsoulos, David Langton, Joy Lee, Guy Marks, Matthew Peters, Naghmeh Radhakrishna, Paul Reynolds, Janet Rimmer, Pathmanathan Sivakumar, John Upham, Peter Wark, Ian Yang, Peter Gibson

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 Monkholm Andreassen, Lise Lotte Eriksen, Lise Lotte Eriksen, Nanna Dyhre-Petersen, Mandy Menzel, Samuel Car, Asger Sverrild, Lena Uller, Celeste Porsbjerg, Therese Lapperre

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

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 Pannelli, Davide De Angelis, Maurizio Cifelli, Gino Villetti, Daniela Miglietta

Discussion and Q&A
All Speakers

OA4308 A randomized trial of three months physical activity telecoaching in patients post lung transplantation
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuys, Wim Janssens, Robin Vos, Thierry Troosters, Heleen Demeyer

Physical activity tele coaching in COPD: intermediate effects
Astrid Blondeel (Leuven, Belgium), Fien Hermans, Sofie Breuls, Marieke Wuys, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters

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), Arielle Pedrosa, Nathalia Soares Correia, Denner Ildemar Feitosa Melo, Caroline Sydloski Bidoia, Fabio Pitta, Manuela Karlo, Thiago Sousa Matias, Fabiano Francisco Lima, Marieta Cabral Amaral Da Cunha, Celso R F Carvalho, Karina Couto Furlanetto
Effectiveness of Personalised CommUnity-based Physical activities for people with chronic obstructive pulmonary disease (PICk UP)

OA4311
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Patrícia Filipa Sobral Rebelo, Guilherme Rodrigues, Cintia Dias, Ana Grave, Ana Sofia Rijo, Maria João Moura, Ana Carolina Oliveira, João Cravo, Maria Aurora Mendes, André Teixeira, Rodolfo Pinto, Dina Brooks

Is improving physical activity after pulmonary rehabilitation in COPD left to chance?

OA4312
Joana Antão (Aveiro, Portugal), Patrícia Rebelo, Frits Franssen, Martijn Spruit, Alda Marques

Physical Activity coaching in people with COPD: a systematic literature review

OA4313
Nicola Sante Diciolla (Madrid, Spain), Maria José Yuste-Sánchez, Alda Marques

The impact of pulmonary rehabilitation on the physical activity level of COPD patients across BMI groups

OA4314
Heleen Demeyer (Leuven, Belgium), Martie Van Overbeke, Lucas Vanden Bossche, Astrid Blondeel, Sofie Breuls, Marieke Wuyts, Lode Claes, Ysys Denute, Andreas Von Leupoldt, Wim Janssens, Thierry Troosters

Pulmonary telerehabilitation vs. Conventional pulmonary rehabilitation – Secondary responder analysis

OA4315
Henrik Hansen (Dragør, Denmark), Andre Torre, Thomas Kallemose, Charlotte Suppli Ulrik, Nina Skavlan Gøttfredsen

Benefits of pulmonary rehabilitation in low compared to high-resource settings in COPD

OA4316
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Joana Antão, Cátia Paixão, Patricia Rebelo, Ana Machado, Sara Souto-Miranda, Ana Sofia Grave, Cintia Dias, Guilherme Rodrigues, Tânia Pinho, M Aurora Mendes, Ana Olivera

Discussion and Q&A

OA4317
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 rehabilitation | Pulmonary function testing | Public health | Cell and molecular biology | Pulmonary physiology | Epidemiology
Tag(s) : Clinical

Chairs : Georgios Kaltakas (Athens, Greece), Anne Orholm Nielsen (Gentofte, Denmark)

Late Breaking Abstract - Obstructive sleep apnea and chronic cough: is there really a link?

OA4318
Laurent Guilleminault (Toulouse Cedex, France), Jérémie Riou, Sandrine Pontier, Kamila Sedkaoui, Frédéric Gagnadoux, Trzepizur Wojciech

Prevalence of abnormal oscillometry among ambulatory Long COVID patients

OA4319
Anthony Byrne (Allambie Heights, Australia), Nick Lees, Eilli Asgary, Emma Stumbles

Effect of treatment with tobramycin on the airway microbiota and resistome in bronchiectasis patients chronically colonised with Pseudomonas aeruginosa: iBEST study

OA4320
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisli G Einarsrson, Andrew J Lee, Aya Alkhatab, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malatterre, James D Chalmers, Michael R Loebinger, Francesco Blasi, Charles S Haworth, J Stuart Elborn

Effects of saline nebulisation on SARS-CoV2 spreading and exhaled bio-aerosol particles in COVID-19 patients

OA4321
Federico Lavorini (Firenze (FI), Italy), Francesca Buttini, Leonardo Gori, Fabio Moreciato, Alessandra Sorano, Gian Maria Rossolini, Alessandro Bartoloni, Jessica Mencarini, Ruggero Bettini

Two-year cohort study after GM-CSF inhalation therapy for autoimmune pulmonary alveolar proteinosis

OA4322
Haruyuki Ishii (Tokyo, Japan), Koh Nakata, Ryushi Tazawa, Page Research Group, Nobutaka Kitamura

Correlation between endothelial dysfunction and Left ventricular global strain in patients with COVID-19 (from the TUN ENDCOV Study)

OA4323
oussama Tabka (Evry courcouronnes, France), Imen Touil, Ibn Haj Amor Hassen, Charfeddine Salma, Krael Salma, Tabka Oussama, Hammami Rania, Mahmoud Anis, Torjmen Slam, Knani Jalel, Abdesslem Salem, Abid Leila

Prevalence and associated factors to post-COVID-19 functional respiratory complaints (FRCs) identified by the Nijmegen questionnaire (NQ)

OA4324
Thomas Gille (Bobigny, France), Lucile Sesé, Simon Chauveau, Bénédicte Giroux-Lepierre, Aurélie Hervé-Carrega, Morgane Didier, Gary Silvera, Manuelle Mokrani, Yousra Coulibaly, Marcilia Da Silva, Anabel Moreno, Stéphanie Groutteau, Emeline Saindjy, Hilario Nunes, Yurdagul Zununaz, 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 Charti

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, Sanıye 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

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-Arnendariz, Baktybek Kojsonazarov, Peter Tessarz, Susanne Herold, Norbert Weißmann, Werner Seeger, Jörg Dötsch, Leo Kurian, Björn Schumacher, Miguel A. Alejandro Alcazar

OA4330 Western dietary pattern during pregnancy increases risk of childhood asthma dependent on social circumstances
Mina Ali (Kopenhagen, Denmark), David Horner, Min Kim, Nicklas Brustad, Tingting Wang, Liang Chen, Casper-Emil T.Pedersen, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bonnelykke, 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 Eliasen, Mathias Elsner Melgaard, Nicklas Brustad, Julie Kyvsgaard, Ann-Marie Malby Schoos, Jakob Stokholm, Bo Chawes, Klaus Bonnelykke

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. Pfiefferle, 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, Rasiai Thayakaran, Krishnaraj Niranharakumar, Shamil Haroon, Prasad Nagakumar, Adel Mansur

OA4336 Adipocyte-fibroblast bidirectional crosstalk promotes features of fibrosis
Nour Jalaledine (Beirut, Lebanon), Melissa 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)

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

OA4340

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

OA4341

Meniscal stromal cells as rescue therapy for refractory Chronic Lung Allograft Dysfunction: preliminary data of
an Italian monocentric cohort
Sara Lerti (Pavia, Italy), Eleonora Bozza, Cecilia Bagnera, Sara Bozzini, Valentina Vertui, Stefania Croce, Chiara
Valsecchi, Elisa Lenta, Antonia Avanzini, Federica Meloni, Patrizia Comoli

OA4342

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, Youssry Mohamady, Xin Jin, Jan Van Slambrouck, Laurens Ceulemans, Laurent
Godinas, Maarten Naesens, Bart Vanaudenaerde, Robin Vos

OA4343

Prediction of Chronic Lung Allograft Dysfunction by Serum KL-6 Levels
Marta Ariona 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

OA4344

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

OA4345

The local immune response after murine lung transplantation
Pieterjan Kerckhof (Leuven, Belgium), Janne Kaes, Jin Xin, Céline 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, Youssry Mohamady, Laurent Godinas, Laurens De Sadeleer, John Mdonough, Laurens Ceulemans,
Robin Vos, Bart Vanaudenaerde, Yildrim Önder, Francesca Polverino, Joselyn Rojas Quintero, Juan Cala Garcia

OA4346

Flow-cytometric assessment of T cell response to monitor immunosuppression
Torstein Watne (OSLO, Norway), Inga Leuckfeld, Arnt E. Fiane, Are M. Holm

OA4347

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

OA4348

Discussion and Q&A
All Speakers

Amber 3+4  Session 428  11:10 - 14:00
Skills workshop: SW14 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)

11:10  Introduction
John Wrightson (Oxford, United Kingdom)
Normal Thoracic Cavity
Morten Bendixen (Skejby, Denmark), Casper Falster (Odense, Denmark)

Pleural effusion and/or pleural thickening
Giovanni Volpicelli (Torino (TO), Italy), Pia Iben Pietersen (Odense C, Denmark)

Case studies
Poppy Denniston (London, United Kingdom)

Guided interventions
Gilles Mangiapan (Creteil, France), Dinesh Addala (Oxford, United Kingdom)

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)

11:45
Chronic obstructive pulmonary disease pathogenesis: understanding the contributions of gene-environment interactions across the lifespan in abnormal lung tissue damage and repair
Rosa Faner Canet (Barcelona, Spain)

12:00
Novel insights into the defective alveolar niche in chronic lung disease
Maor Sauler (North Haven, United States)

12:15
Discussion and Q&A
All Speakers

12:30
Break
All Speakers

12:35
Novel proregenerative and antiageing targets for the treatment of fibrotic lung disease
Melanie Konigshoff (Pittsburgh, United States)

12:50
Tissue barrier dysfunction as a therapeutic target in pathogen-associated respiratory failure
Wolfgang M. Kübler (Berlin, Germany)

13:05
Discussion and Q&A
All Speakers

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
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<th>Paper No.</th>
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<td>PA4380</td>
<td>Can biomarkers predict survival in idiopathic pulmonary fibrosis?</td>
<td>Abdullah Kayikci (Eskisehir, Turkey), Fusun Alatas, Huseyin Yildirim</td>
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<td>PA4381</td>
<td>Characteristics in patients with Progressive Fibrosing Interstitial Lung Disease (PFILD) treated with Nintedanib: data from a specialist centre</td>
<td>Janet Johnston (Manchester, United Kingdom), Lachlan Stranks, Kate Newman, Theresa Garfoot, Laurence Pearmain, Stefan Stanel, Colin Hayton, Colm Leonard, Greaves Melanie, Pilar Rivera-Ortega</td>
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<td>PA4382</td>
<td>COPD assessment test (CAT) in patients with COPD and compensated heart failure</td>
<td>Bohdana Basina (Dnipropetrovsk, Ukraine), Natalia Sanina, Tetyana Pertevea, Tamara Turlyun</td>
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<td>PA4383</td>
<td>Unexplained or refractory chronic cough and mental health disorders: review of this relationship and response to pregabalin therapy</td>
<td>Mathieu Saint-Pierre (Ottawa, Canada)</td>
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<td>PA4384</td>
<td>Factors involved in poor asthma medication adherence and barriers to the control of the disease</td>
<td>Ahmed Dhia El Euch (Sfax, Tunisia), Younes Asma, Rahma Gargouri, Souha Abdenneji, Rim Khemakhem, Ilhem Yangui, Walid Feki, Sammy Kammoun</td>
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<td>PA4385</td>
<td>Humoral and cellular immunity monitoring of Sinopharm/BBIBP COVID-19 vaccine</td>
<td>Zhangkai Cheng (Guangzhou, China), Huimin Huang, Peiyi Zheng, Mingshan Xue, Zhiman Liang, Baoqing Sun</td>
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<td>PA4386</td>
<td>Exploring secondary breathlessness outcomes: the Morphine vs Placebo trial</td>
<td>Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sandra Louw, Philip Mccloud, Miriam Johnson, Katherine Clark, David Currow</td>
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<td>PA4387</td>
<td>Oxygen prescribing: can we meet the desired standards?</td>
<td>Laura White (Manchester, United Kingdom), Kamal Ibrahim, Zartasht Carmichael, Kyle Cromey</td>
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<td>PA4388</td>
<td>Responder rates in patients with acute cough treated with ivy leaves dry extract clearly exceed placebo response</td>
<td>Ralph Mösges (Köln, Germany), Esther Raskopf, Andreas Völp</td>
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<td>PA4389</td>
<td>A Composite Screening Method to maximise the Detection-Rate of Obstructive Sleep Apnoea in Train Drivers</td>
<td>Syeda Nafisa (Nottingham, United Kingdom), Lanre Ogunyemi, Tanya Stacey, Milind Sovani</td>
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<td>PA4390</td>
<td>Rigorous cardiac assessment helps clarify causes of recurrent admission in patients with COPD</td>
<td>Arun Prasad (Gateshead, United Kingdom), Joseph Kibbler, Eduwin Pakpahan, David P Ripley, Stephen C Bourke, John Steer</td>
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<td>PA4391</td>
<td>Efficacy of Blonanserin Transdermal Patch on Terminal Delirium in Patients with Respiratory Diseases</td>
<td>Katsutoshi Ando (Meguro, Japan), Ayumi Suzuki, Azumi Motosaku</td>
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<td>PA4392</td>
<td>Knowledge of COPD among Adults in Saudi Arabia's Eastern Province: An interim Results</td>
<td>Jaber S. Alqahtani (Dammam, Saudi Arabia), Areej Hassan Alamri, Roaa Saleh Bajahlan, Afrah Fahad Alanazi, Asalah Ahmed Hakami</td>
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<td>PA4393</td>
<td>Factors associated with treatment failure in an adult population of chronic coughers</td>
<td>Alessia Catalisano (Firenze, Italy), Mariangela Cascio Mariana, Claudia Mannini, Guia Bernacchi, Giovanni Colapietro, Giovanni Fontana, Federico Lavorini</td>
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<td>PA4394</td>
<td>Respiratory symptoms (RS) and pulmonary function (PF) in patients (pts) with chronic lymphoproliferative diseases (CLPD)</td>
<td>Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko</td>
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<td>PA4395</td>
<td>Characterisation of progressive fibrosing phenotype (PF-ILD) in patients with hypersensitivity pneumonitis (HSP)</td>
<td>Ahmed Suleman Haque (Gillingham, United Kingdom), Katherine Brignall, Shanthi Paramothayan, Vijayakumar Ganesh</td>
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<td>PA4396</td>
<td>Bronchiolitis obliterans syndrome after hematopoietic stem cell transplantation - single center experience</td>
<td>Aslihan Gurun Kay (Ankara, Turkey), Ozlem Isik, Guldane Cengiz Seval, Serhat Erol, Selami Kocak Toprak, Ozlem Ozdemir Kumbasar</td>
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<td>PA4398</td>
<td>Blood biomarkers in patients with Alpha-1 Antitrypsin Deficiency from the EARCO CRC Registry</td>
<td>Cristina Aljama Vizcarra (Reus, Spain), Alexa Nuñez, Cristina Esquinas, Hanan Tanas, Eva Bartosovská, Gerard Orriols, Georgina Farago, Galo Granados, Miriam Barrechehuren, Marc Miravitlles</td>
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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 Matsubara, Sachiko Tsukita, Isamu Okamoto

PA4400 Regulation of eosinophil function in allergic airway inflammation by lysosome
Yinlin 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 Palacinyte, 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), 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 (Saigaibara (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 Oreno

PA4409 NLRP3 affects airway responsiveness in an OVA and ozone-induced asthma model with neutrophil infiltration through regulation of IL-1β
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 β2-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. Mcaulees, Adrienne N. Wilburn, Yves Laumann, Ian P. Lewkowich, Inken Schmudde

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
Late Breaking Abstract - Effect of inhaled triple therapy on small airway remodeling in patients with moderate to severe COPD accessed by endobronchial optical coherence tomodraphy
Guo Zuyuan (Guangzhou, China), Zhou Ziqing, Li Shiyue, Zhong Nanshan

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

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 Sanden, Daisy Bornesund, Hodan Abdshill, Jonas S. Erjefält

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 Buendia-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)

Is refractory chronic cough a genetic disease?
Laurent Guilleminault (Toulouse Cedex, France), Pauline Chazelas, Boris Mellon, Corinne Magdelaine, Thomas Villeneuve, Danielle Broquères, Anne-Sophie Lia, Laurent Magy

A register-based study: Chronic Cough in the adult population in Sweden
Lotta Walz (Linkoping, Sweden), Össur Emilsson, Kristoffer Illergård, Henrik Johansson

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

Heterogeneity in reporting respiratory symptoms: a global survey
Alexander Müller (Wien, Austria), Hazim Abozid, Emiel Wouters, Sylvia Hartl, Daisy Janssen, André Amaral

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 Schlüssen, Andrei Malinovschi, Cecile Svanes, Magnus Ekström

The association between indoor airborne bacteria and allergic respiratory diseases – a Northern European study
Christine Cramer (Aarhus, Denmark), Hesham Amin, Christer Janson, Rain Jögi, Tejs Ehlers, Klung Hubert Kolstad, Dan Norback, Torben Sigsgaard, Tina Santi-Temkiv, Hulda Thorarinsdottir, Randi Jacobsen Bertelsen, Vivi Schlüssen

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

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

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

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

Outcomes in pregnant Ontarians with asthma and allergic diseases during COVID-19
Emilie Terebessy (Toronto (ON), Canada), Jingquin Zhu, Kimball Zhang, Cornelia M. Borkhoff, Andrea Gershon, Tetyana Kendzerska, Smita Pakhale, Nicholas T. Vozoris, Christopher Licskai, Teresa To

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
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

Characteristics of severe asthma patients included in the French Palomb Cohort.
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouaalaya, Annaig 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 Raherison-Semjen

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

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, Alok G. Ghoshal, Monica Barne, Sanjeev Sinha, Sanjay K. Kochar, Udayveer Singh, Kamalesh Kumar Patel, Arvind Kumar Sharma, Bhushan Girase, Anil Chauhan, Niranjan Sit, Jayaraj B. Siddaiah, Virendra Singh

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

Estimation of RSV-attributable hospitalizations and deaths in Spain between 2015–2019
Mariana Haeberer (ALCOBENDAS, Spain), Antoni Torres, Robin Bruyndonckx, Aleksandra Polkowska-Kramek, Charles Nuttens, Francesca Lemme, Thao Mai Phuong Tran, Caihua Liang, Cristina Mendez Diaz, Bradford Gessner, Elisabeth Begier

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, J Porcel, K Fjaellegaard, J Petersen, U Bodtger, E Grabczak, R Krenke, M Ellayah, D Addala, D Hallifax, J Wrightson, N Rahman, K Jackson, E Pellas, I Khan, M Chohan, A Aujayeb, G Labarca, I Dhalwal, M Mitchell, A Rozman, M Marc-Malovrh, S Anevlavis, M Foudrakis, P White, R Bhatnagar, N Maskell

Utility of overnight oximetry indices in the evaluation of children with suspected Obstructive Sleep Apnea
Yu Qian Koh (Singapore, Singapore), Arun Pugalenth, 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

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

Clinical characteristics of children with positive Pediatric Sleep Questionnaire with or without hypoxemia
Magdalena Voces (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primerose, Marcela Roque, Juan Manuel Figueroa

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

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

Idiopathic Apnea In Term Newborns And Infants Under 6 Months Of Age: A Multicenter Study
Jean-marc Gilardoni (Nice, France), Julie Mazeng, Anne-Marie Maillote, Isabelle Pin, Geraldine Labouret, Océane Cheyrou, Antoine Tran, Jessica Taytard, Lisa Giovannini-Chami
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

Home sleep studies in children with neurodisabilities: any impact on clinical decision making?
Mihaela Diaconu (London, United Kingdom), Andrew Bush, Hui-Leng Tan

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

Reproducibility of home spirometry in children with neuromuscular disease
miriam murls (cambridge, United Kingdom), Laura Lowndes, Ashleigh Gibby, Theofilos Polychronakis

Validation of the conditional change score for FEV1 in children with asthma
Andrew Zikic (Toronto, Canada), David Wilson, Lucy Perrem

Oxygen therapy in infants with extreme periodic breathing
Luana Nosetti (Luino (VA), Italy), Marta Vergani, Marco Zaffanello, Massimo Agosti, Simri Sleep Disordered Breathing Group

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, Sarah Ranganathan, Lex Doyle, Jeanie Cheong

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

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

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

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

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 Guegquez, Ines Ghannouchi, Sonia Rouathi

Efficacy of melatonin in children with chronic somatic cough
Ahmad Kantar (Bergamo (BG), Italy)

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 Zanin, Giovanni Putoto, Moses Obizu, Samuel Okori, Jerry Ietho, Peter Lochoro, Raffaele L. Dellacà

Is it time to change diagnostic criteria for paediatric bronchiectasis?
Aisha Mir (Edinburgh, United Kingdom), Kirstin Unger, Alan Quigley, Stefan Unger

Paediatric non-CF bronchiectasis: a cross-sectional study
HELEANNE VAN KUIJK (Leicester, United Kingdom), Manisha Ramphul
International consensus statement on core outcomes for clinical trials in children and adolescents with bronchiectasis – Child-BEAR-net ERS CRC

PA4460
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

Predictive factors of bad outcomes in pediatric bronchiectasis

PA4461
Besma Hamdi (Tunis, Tunisia), Sabrine Louhaichi, Ella Nemsi, Tarek Cherif, Khouloud Chaibi, Jamel Ammar, Agnès Hamzaoui

Do distinct etiologies cause clinical differences in non-CF bronchiectasis in children?

PA4462
Meltem Akgül erdal (ANKARA, Turkey), Halime Nayır Büyükşahin, İsmail Güzelkâş, Birce Sunman, Didem Alboğa, Hanife Avci, Nagehan Emirhalçoğlu, Ebru Yağcin, Deniz Doğru, Nural Kiper, Uğur Özçelik

Does timing of diagnosis affect outcome in primary ciliary dyskinesia?

PA4463
Dvir Gatt (Toronto, Canada), Michelle Shaw, Fiona Kritzinger, Melinda Solomon, Sharon Dell, Felix Ratjen

Nasal Mucociliary Clearance of 99mTc-albumin colloid: a quantitative test of nasal ciliary function and potential outcome parameter in primary ciliary dyskinesia

PA4464
June Kehlet Marthin (Bagsvaerd, Denmark), Kim Gjerum Nielsen, Jann Mortensen

Use of Immunofluorescence Staining in Primary Ciliary Dyskinesia Diagnosis

PA4465
Mine Kalyoncu (Istanbul, Turkey), Rim Hjeij, Müruvvet Yanaz, Ayşen Gulev, Merve Sercan, Şeyda Karabulut, Neval Metin Çaçar, Pinar Ergene, Ela Erdem Eralp, Yasemin Gökdemir, Heymut Omran, Bulent Karadağ

Repeating ciliary videomicroscopy improves the specificity for PCD diagnosis

PA4466
Lionel Benichon (Lieve, Belgium), Noémie Bricmont, Romane Bonhiver, Doriane Calmes, Anne-Lise Poirrier, Marie-Christine Seghay, Renaud Louis, Philippe Lefebvre, Celine Kempteners

Genomics of Haemophilus influenzae strains in a paediatric Primary Ciliary Dyskinesia cohort

PA4467
Klara Schmidthaler (Vienna, Austria), Renè Gaupmann, Magda Diab-El Schahawi, Birgit Willinger, Zsolt Szépfalusi, Eleonora Dehlink

Disease manifestations in siblings with primary ciliary dyskinesia

PA4468
Dvir Gatt (Toronto, Canada), Michelle Shaw, Fiona Kritzinger, Melinda Solomon, Sharon Dell, Felix Ratjen

Patterns of E-cigarette Usage Among Adolescents with Primary Ciliary Dyskinesia and Cystic Fibrosis

PA4469
Dvir Gatt (Toronto, Canada), Rahul Verma, Jacob Mccoy, Lyzette Garcia Bonila, Andrew Zikic, Shaima Alkhouri, Rawan Alfozazan, Kate Gent, Jackie Chiang

Nurse led Education on e-cigarette use in adolescents.

PA4470
Mira Osinibi (London, United Kingdom), Cara Bossley

A novel pediatric polycystic lung disease caused by CCR2 deficiency

PA4471
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 Martín-Fernandez, Taushif Khan, Jonathan Bohlen, Jeremy Manry, Ji Eun Han, Alexandre Deslys, Tania Gajardo-Carrasco, Camille Soudée, Melanie Migaud, Yoann Seeleuthner, Eirini Nikolouli, Sinim Seyedpour, Hugues Begueret, Chantal Brouzes, Pablo Vargas, Nico Lachmann, Raphael Boire, Nico Marr, Dusan Bugonovic, Mohammadreza Modaresi, Larry Nogee, Daniel Craven, Rajhun Rezai, Mohammadzadeh, Ilham Mehdizadeh, Stephanie Boisson-Dupuis, Fernando Sepulveda, Vivien Bézat, Nathalie Aladjidi, Laurent Abel, Philippe Gros, Danièle Malo, Lisa Young, Robin Deterding, Gail Deutsch, Brenna Carey, Jean-Laurent Casanova, Jacinta Bustamante

Multiple-breadth washout for the detection of lung disease in patients with inborn errors of immunity

PA4472
Leone 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 Römhel, Renate Krüger, Marcus A. Mall, Horst Von Bernuth, Mirjam Stahl

Respiratory care burden in children with aspiration

PA4473
Christopher Edwards (Leeds (West Yorkshire), United Kingdom), Jennifer Unwin, Ayesha Jannat, Liz Franklin

Evaluation of sputum cultures in children with spinal muscular atrophy

PA4474
Hagit Levine (Evn Yehuda, Israel), Yoram Nevo, Julia Katz, Huda Mussaffi, Gabriel Chodick, Meir Mei-Zahav, Stafler Patrick Stafler, Guy Steuer, Ophir Bar-On, Hadas Mantin, Dario Pras, Sharon Aharoni

Effects of selumetinib treatment for neurofibromatosis type 1 on pulmonary function in children and young adults

PA4475
Elettra Zuliani (Trieste, Italy), Sergio Ghirardo, Francesco Baldo, Irene Bruno, Andrea Magnolato, Egidio Barbi, Massimo Maschio
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

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

Central versus peripheral adaptations after lung transplantation in patients with end-stage chronic obstructive pulmonary disease
Jacob Peter Hartmann (København V, Denmark), Camilla Koch Ryrsø, Thomas Kromann Lund, Michael Perch, Pia Thaning, Lasse Glemann, Ylva Hellsten, Gregers Winding Munch, Bente Klarlund Pedersen, Ronan Martin Griffin Berg, Ulrik Winnig Iepsen

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 Fähndrich, Björn Frye, Björn Frye, Daniel Stolz

Regional spirometry by electrical impedance tomography in the postoperative follow-up of Single-Lung Transplantation: Case series
Ignacio Fernández Ceballos (Buenos Aires, Argentina), Joaquín Emo, Miriam Gabriela Marcos, Leiniker Navarro Rey, Juan Martín Nuñez Silveira, Emilio Steinberg, Juliete Gonzalez Anaya, Indalecio Carboni Bisso, Graciela Svetliza, Maria Laura Orazi, Enrique Beveraggi, Marcos Las Heras, Gabriel Elias Vega

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

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 Mihombres, Jose María Manchoo, Bernat Planas Pascual, Joan Daniel Martí, Angela Suarez, Joan Marcobal, Aroa Gomez Brey, Cristopher Mazo, Maria Deu, David Paredes, Gerard Sanchez, Marc Boada, Alba Gomez Garrido, Belen Garcés, Meritxell Peñalver, Adriana Martin, Andrea Pérez, Alberto Sandiunenme Camps

Survival of idiopathic pulmonary fibrosis patients treated with antifibrotics versus lung transplantation:

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

Nezulcitinib (TD-0903), an inhaled JAK inhibitor reduces ConA-induced lung inflammation and lung injury in mice
Edward Morgan (South San Francisco, United States), Elad Kaufman, Reuben Sana, Joseph Chen, Matthew Frates, Iliara Badagnani, Glennmar Obedecio, David Bourdet

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 Pégo-Fernandes, Raul Maranhão

Pre-lung transplant VO2max predicts functional outcomes post-lung transplantation
Emma Bakelants (Kessel-Lo, Belgium), Hanne Beeckmans, Marius Brusselmann, Geert Verlinden, Lieven Dupont, Laurent Godinas, Dirk Van Raemdonck, Laurens Ceulemans, Geert Celis, Iris Coosemans, Wim Janssens, Stephanie Éveraerts, 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 Durheim, 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, Benoît Repusseau, Régis Seramondi, Patrick Reyner, Eline Bonnardel, Christelle Pellerin, Jerome Ridolfo, Eloise Gallo, Pierre Khan, Hadrien Roze, Arnaud Rodriguez, Yaniss Belaroussi, Benjamin Chevalier, Frederic Delcambre, Matthieu Thumerel, Jacques Jougou, Xavier Devant

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, Prabhut 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, Rajamiiyer 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 Muenmiller, 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 Damarlo, Mario Nosotti, Roberto Ercole Moroni Grandini, Francesco Balbi

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, André Malinovski, Christen Janson, Bernardo Sousa-Pinto, Anna-Carin Olin, Kjell Toern, Linda Ekerljung, Hannu Kankaanranta, Jörgen Syk, João A. Fonsec, 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, Denny Jakymelen, Laura Saunders, Joshua Asley, 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 Ruehlman, Celia Lanteri, Emma Smith

PA4502 The FVC 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 Ambrogii

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 Meevoy, 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

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 Reference values for maximal respiratory pressures in Spanish population: a multicentre study
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 Arbillaaga-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 Álvarez Rivas, José Luis Valera Felices, Carolina González Montañéz, Antonio Tomás Ríos-Cortés, Guilherme Fregonezi

PA4519 Clinical definition of respiratory muscle weakness based on reference values for maximal respiratory pressures
Elena Gimeno-Santos (Barcelona, Spain), Ana Lista Paz, Daniel Langer, Margarita Barral Fernández, Luz González Doniz, Sonia Souto-Camba, Alejandro Quintela Del Río, Ane Arbillaaga-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 Montañéz, 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
Virtual Reality Rehabilitation for Improving Exercise Performance and Mental Well-being in Post-Acute Sequelae of COVID-19 Patients
Sebastian Rutkowski (Opole, Poland), Vera Colombo, Marta Mondellini, Marco Sacco, Katarzyna Bogacz, Anna Rutkowska, Jan Szeżegelniak, Richard Casaburi

Predictors of weaning failure from mechanical pulmonary ventilation in patients affected by COVID-19
Natalia Trindade da Silva (Londrina, Brazil), Larissa A Castro, Walter Sepúlveda-Loyola, Josiane M Felcar, Carrie C R Galvan, Vanessa S. Probst

Effectiveness of post-COVID rehabilitation and impact of frailty in Post-COVID Syndrome
Kola Akinlabi (London, United Kingdom), Binny Patel, Ana-Maria Barfla, Patrick Mallia, Radoslav Trojak, AmalachuKwu Ukaere, Gavin Sandercoc.

International Physical Activity Questionnaire for people post COVID-19: a validation study
Nicola Sante Diciolla (Madrid, Spain), Alda Marques, Ana Jiménez-Martín, Sara Garcia-De Villá, F. Javier Redondo-Garcia, Maris Torres-Lacomba, Maris José Yuste-Sánchez

Micro-choice based concentrated rehabilitation for patients with post COVID-19 condition, a 3-month follow-up study.
Bente Frisk (Sandsl, Norway), Marte Jurgensen, Birgitte Espenhaug, Kiri Lovise Njoten, Eirik Softeland, Bernt Bøgvald Aarli, Gerd Kvale

Association of dyspnea and physical activity level in adult patients with CF during COVID-19
Aydın Aslı Aksel Uylar (Ankara, Turkey), Naciye Vardar-Yaglı, Merve Firat, Melda Saglam, Ebru Calik-Kutukcu, Ebru Damadoğlu

Factors affecting participation of long COVID patients in pulmonary rehabilitation programmes
Christiana Lekka (Athens, Greece), Nikolaos Chynkiamis, Angelos Vontetsianos, Christina Anagnostopoulou, Stavrina Zaneli, Zoi Sotiroupoulou, Georgios Kaltsakas, Andriana Papaiouannou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Respiratory, mental and physical aspects in people following COVID-19 infection: a six-month follow-up
Karina Marcela Morro Pozo (Presidente Prudente, Brazil), Isis Grigoletto, Paloma Borges, Matheus Pedroso, Elaine Maldonado Bertacco, Thamirys Serafim, Vinicius Cavalheri, Raiafel Mesquita, Ercy Mara Cipulo Ramos

Effectiveness of physical activity counseling in patients with COVID-19
Zeliha Celik (Ankara, Turkey), Nihan Kafa, Nevin A. Guzel, Nurdan Kokturk

Functional recovery over 1 year after hospitalization for COVID-19: results from waves 1 and 2 of the pandemic
Marla Beauchamp (Hamilton, Canada), Renata Kirkwood, Andrew Costa, Mylinh Duong, Terence Ho, Rebecca Kruisselbrink, Aaron Jones, Parminder Raina

Is the endothelial dysfunction in patients with exacerbation of COPD and COVID-19 comparable?
Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Naiara Tais Leonardi, Alessandro Domingos Heubel, Erik Zavaglia Kabbach, Nathany Souza Schafauer, Débora Mayumi Kawakami, Stephanie Nogueira Linares, Ariane Viana, Vanessa Teixeira Do Amaral, Gustavo Yudi Orikassa De Oliveira, Audrey Borghi-Silva, Emmanuel Gomes Ciociac

Relationship between cognitive impairment and upper limb motor skills in Long-COVID patients
Laura Lopez Lopez (Granada, Spain), Miguel Hernández Serrano, Alba Navas Otero, Javier Martín Núñez, Araceli Ortiz Rubio, Irene Torres Sánchez, Marie Carmen Valenza

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Tess Volckaerts (Edgem, Belgium), Kirsten Quadflieg, Chris Burtin, Kevin De Soomer, Ellie Oostveen, Ella Roelant, Iris Verhaegen, Michiel Thomeer, Maarten Criel, David Rutten, Thérèse S. Lapperre, Dirk Vissers

Cardiac Hemodynamics and Functional Capacity After Covid-19: Case Series
Larissa Nascimento (Natal, Brazil), Emilly Bandeira, Guilherme Fregonezi, Vanessa Resquei

The effect of COVID-19 on exercise capacity in young people
Dilek Çağrı Arslan (Istanbul, Turkey), Meryem Bektaş Karakuş, Semiramis Özyilmaz

Factors Associated with Exercise Capacity and Functional Balance in Post-COVID-19 Syndrome
Ebru Calık Kutukcu (Ankara, Turkey), Melike Sura Oksuz Capanoglu, Oguz Abdullah Uyaroglu, Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Lale Özisik, Nursel Calık Basaran, Gulay Sain Guven

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, Kyungun Lee, Yong-Joon Park, Yunhyung Kwon, Younii 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**
Relation between PTLD and multdrug 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.
Carljin 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, Luis 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 Daghfois, 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, Daghfois 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, Rajv 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 Otewill (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
Bolyskhan Baigabyl (Ulanbaatar, 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), Yulia Matvienko, Olena Rekalova, Viktoria Zhadan, Oksana Panasiukova, Svitlana Yasir, Andriy Taranenko, Maryna Budyonna, Galina Gumeniuk
### Poster session: COVID-19 outcomes

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### Session 444 12:30 - 14:00

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#### PA4555

**Does pre-existing respiratory disease affect 3-month outcome following severe COVID: a matched prospective cohort across 4 waves**

Olivia Vandenekerkhove (Sint-Pieters-Rode, Belgium), Eveline Claeyts, 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, Viboob Boonsangsuk

#### 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, Alejandro 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 Tiri, Nour Kallel, Rahma Gourgour, Nesrin Kallel, Walid Feki, Imad Gourgour, 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, Heideguer Norberto Mateos-Toledo, Esperanza Figueroa-Hurtado, Diana Lizbeth Ortiz Farias, Yuri Noemi Pou-Aguilar, Saul Vázquez-López

#### PA4562

**Association between pre-hospital inhaled corticosteroid use and COVID-19 outcomes**

Marija Vukoja (Sremska Kamenica, Republic of Serbia), Eysun Tekin, Nereida Parada, Javahgih Gray, Alan Mallouhi, Tiana Roddy, Amos Lai, 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

**Secondary infectious complications of the airways in patients with post-COVID-19 syndrome**

Galya Gumeniuc (Kiyv, Ukraine), Yuri Feshchenko, Mykola Gumeniuc, Viktoria Ignatieva, Maryna Polianska, Svitlana Opimakh, Mykola Lynnyk, Svitlana Moskalenko, Nataliia Vlasova, Dmytro Butov

#### PA4565

**Tabacco smoking and post COVID-19 syndrome**

Ines Moussa (Bizerte, Tunisia), Mariem Friha, Hajar Racil, Mariem Chaabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch

#### PA4566

**Co-infection and secondary infection in critically ill Omicron variant COVID-19 patients in a university hospital**

Yi-Ting Chen

#### PA4567

**Functional and radiological correlation of ICU survivors with severe COVID-19 at 1 year follow up from the OUTSTRIP COVID-19 prospective cohort study**

Aisha Aladab (doha, Qatar), Mousa Hussein, Merlin Thomas, Mansoor Hameed, Jaweria Akram, Rajalekshmi Nair, Rajendra Kumar, Amal Rashid, Saibh George, Mushtaq Ahmad, Maysa Abdelhafeez, Aalaa Kambal, Tasleem Raza
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3-month clinical, functional and radiological outcomes of hospitalised COVID-19 patients in the first versus the second wave
Elise Peys (Antwerpen, Belgium), Yannick Vande Weygaerde, Cedric Bosteels, Bihiyga Salhi, Sven Verschraegen, Pieter Depuydt, Sandra Oeyen, Eric Derom, Heleen Demeyer, Eva Van Braeckel

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Habits and predictors of poor sleep quality in post-Covid-19
Houda Rouis (Ariana, Tunisia), Nouha Guediri, Rania Kaddousi, Hadhemi Rejeb, Hela Kammoun, Iteb Ben Limem, Imen Ben Salah, Hanene Smadhi, Dorra Greb, Ines Akrouit, Hela Hassen, Hager Benadelghaffar, Leila El Fekhhi, Mohamed Lamine Megdiche

PA4570

Forty step desaturation test does not have prognostic value in COVID-19 due to omicron variant
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Devasahayam J Christopher, Barney Isaac, Rajasekar Sekar, Rathijit Pal, Hema Paul, Mathew Varghese, Abhiliash Paul Prabhabakar

PA4571

Identification of long COVID phenotypes based on clinical presentation at 3 to 6 months post SARS-CoV-2 infection: results from the P4O2 consortium

PA4572

Long covid symptoms in hospitalized and non-hospitalized patients
CHRISTOFOROS PROIMOS (Thessaloniki, Greece), GEORGIA CHASAPIDOU, Eleni Eleftheriadiou, Maria Konstandinoud, Dionisia Samara, Dimitra Dairou, Maria-Christina Grameniou, Effimia Kamaritou, Panagiotis Georganakis, Elena Giovanni, Valentina Peglidou, Petros Ekoutsidis, Lefteris Doulgerakis, Diamantis Chloros

PA4573

Prospective evaluation of post-covid patients being hospitalized in a Greek clinic
Konstantinos Eleftheriou (Athens, Greece), Vasilis Vlahakos, Athanasia Papalampidou, Theofani Rimpia, Apostolis Pappas, Zafiria Barnarpessou, Eftichia Polidora, Rafaela Siampani, Ioannis Kaloomenidis

PA4574

Fatigue in post COVID-19 patients: the P4O2 COVID-19 study

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

Association between mRNA vaccination and COVID-19 hospitalization and disease severi
Adamadia Liapikou (Athens, Greece), Alexandra Kote, Aggeliki Sotiropoulou, Panagiotis Peristeris, Ioanna Augerinou, Ioannis Dimitroulis, Stella Kourelea

PA4576

Impact of IFN-γ and IL-2 measurement in the assessment of the cellular immunity against SARS-CoV-2
Guillem Safont-Gonzalez (Breda, Spain), Raquel Villar-Hernández, Daria Smalechuk, Zoran Stojanovic, Alicia Marin, Alicia Lacona, Cristina Pérez-Can, Anabel López-Martínez, Bárbara Molina-Moya, Alan Jhuniour-Solis, Fernando Arméstair, Joan Matlló, Sergio Díaz-Fernández, Iris Romero, Irma Casas, Kevin Strecker, Rosemarie Preyer, Antoni Rosell, Irene Latore, Jose Dominguez

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

PA4578

Janos Tamas Varga (Budapest, Hungary), Monika Fetek, Alpar Horvath, Balazs Santa, Gabor Tomisa, Gergo Szollosi, Zoltan Ungvari
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

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

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, Theoplastic Grigoratou, Eleftherios Zervas, Lykourgos Kolilekas

Investigation of antibody levels during three doses of Sinopharm/BBIBP vaccine inoculation
Baoqing Sun (Guangzhou (Guangdong), China)

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

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 Griffin, Emma Bruce, Jennifer Han, Rona Smith, Davinder Dosanjh

Markus Hofer (Zürich, Switzerland), Wyss Seraina, Reutemann Luzia, Bansal Vineeta

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 Mwasukeni, Sanjay Ramakrishnan, Mahdi Mahdi, Peter Barnes, Louise Donnelly, Richard Russell, Dan Nicolau Jr., Rocio Martinez-Nunez, Mona Bafadhel

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

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

Variable outcomes from infection by different SARS-CoV-2 variants among vaccinated maintenance hemodialysis patients
Ori Wand (Kfar Sava, Israel), Idan Drori, Yaël Einbinder, Naomi Nacasch, Sydney Benchetrit, Anna Breslavsky, Keren Cohen-Hagai

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, Giannaria Rossolimi, Elisabetta Rosi, Federico Lavorini, Valentina Luzzi, Leonardo Giuntoli, Camilla Comin, Luca Ciani, Sara Tomassetti

The role of immunosuppressive therapy in post-COVID-19 interstitial lung disease
Erdoğan Çetinkaya (Istanbul, Turkey), Sule Gül, Baris Demirkol, Ramazan Eren, Kursad Nuri Baydili, Burcu Babaoglu, ElKhatrooushi, Şerife Nur Ulusan, Umut Ilhan, Mustafa Côrtük

Severe COVID19 pneumonia management in patients receiving Rituximab in a pragmatic clinical setting.
Ellë Keramida (Athens, Greece), Maria Salomidou, Miltiades Daskalos, Irina Bracka, Eleni Bellou, Ioannis Karampini, Panagiotis Bportz, Despoyna Zorpolidou, Georgia Hardavella

Inhaled therapies in the treatment of COVID-19: a variable outcomes from infection by different SARS-CoV-2 variants among vaccinated maintenance hemodialysis patients
Suzana Erico Tanni (Botucatu (SP), Brazil), Robson Prudente, Estefânia Franco, Fernando Wehrmeister, Carlos Breda Neto, Luana Pagan, Mariana Gatto, Leticia Vieira, Liane Coelho, Diane Batista, Luiz Machado, Gustavo Mota, Marina Gaiato, Felipe Santaella, Elisangela Campos, Lívia Housoune, Mariana Okoshi

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 Tsui, Sue Him Isaac Leung, Ching K. Tsui, Terence Chi Chun Tam, James Chung Man Ho, David Chi Leung Lam, Mary Sau Man Ip, Pak Leung Ho
### 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)

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<td>Addition of LAMA to current or former smoking asthmatics</td>
<td>Marios Ioannou (ATHENS, Greece), Stavros Patrinos, Niki Gianniou, Andreas Asimakos, Efrosini Dima, Ioanna Sigala, Paraskevi Katsaounou</td>
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<td>PA4603</td>
<td>Efficiency assessment of 15 nebuliser systems by the respirable drug delivery rate</td>
<td>Ralf Fischer (Starnberg, Germany), Filip Jukic, Rosina Ledermüller</td>
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<td>PA4604</td>
<td>Usability and acceptance of a novel compact spacer in patients with asthma and/or COPD</td>
<td>Amber Eikholt (Zwolle, Netherlands), Titia Klemmeier, Luc Steenhuis, Job Van Boven</td>
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<td>PA4605</td>
<td>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</td>
<td>Juby Anne Jacob-Nara (Hillsborough, United States), Asif H. Khan, Danielle Isaman, Stella Lee, Anju Peters, Peter Hwang, Sietze Retisma, Natalia Petruski-Ivleva, Scott Nath, Juby Jacob-Nara</td>
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<td>PA4606</td>
<td>Validity and reliability evidence of the fear of COVID-19 scale in Greek patients with asthma</td>
<td>Mirada Karameri (Athens, Greece), Irini Patsaki, Maria Moutzouri, Georgios Koumantakis, Dimitris Tsimouris, Aikaterini Haniotou, Eirini Grammatopoulou</td>
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<tr>
<td>PA4607</td>
<td>Late Breaking Abstract - Consensus quality standard for implementing inhaler regimen switch in patients with respiratory disease</td>
<td>Tonya Winders (Hendersonville, United States), Omar Usmani, Nicolas Roche, Job Van Boven, Jane Scullion, José Miguel Padilha, Andreja Šajnić, John Bell, Anna Lawson, Alison Evans, Adam Ben Taieb, Heathet Wellam, Janwillem Kocks</td>
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<tr>
<td>PA4608</td>
<td>Late Breaking Abstract - Mexican Primary Care Physician’s Knowledge about Asthma and COPD: Results of an exploratory survey</td>
<td>Rosaura Esperanza Benitez 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</td>
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<tr>
<td>PA4609</td>
<td>Late Breaking Abstract - 20-Year Secondary Care and Cost Burdens of Asthma and COPD in Singapore</td>
<td>Wenjia Chen (Vancouver, Canada), Laura Huey Mien Lim, Yah Ru Jiang</td>
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<td>PA4610</td>
<td>Late Breaking Abstract - Reducing Short Acting Beta Agonist (SABA) prescribing in Antrim/Ballymena GP Federation through SENTINEL Plus</td>
<td>MichaelCrooks (East Riding of Yorkshire, United Kingdom), JoanneCaldwell, AislinnMccarry</td>
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**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)

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**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

**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 Hélüain, Gavin Plat, Thomas Egenod, Nicolas Guibert

**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 Avanz, Jorine Hartman, Karin Klooster, John Thornton, Jan Lukas Robertus, Dirk-Jan Slebos, Pankaj Bhavsar, Pallav L Shah

**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

**Insights in biofilm infections on endobronchial valves in COPD patients after endoscopic lung volume reduction**
Eva Pappe (Berlin, Germany), Ralf-Harto Hübner, Laura Kursawe, Kurosh Sarbandi, Jacopo Saocomanno, Martin Witzenrath, Alexandra Wiessner, Annette Moter, Judith Kikhney

**Endobronchial valve (EBV) insertion for emphysema quickly improves sarcopenia**
Julia Rubenstein (Talence, France), Ilyes Benlala, Anne-Claire Toublan, Marina Guecamburu, Claire Bon, Charlotte Vergnenegre, Arnaud Maurac, Leo Grassos, Pauline Henrot, Maeva Zysman

**Bronchoscopic lung volume reduction with a next generation coil.**
Kathleen Jahn (Basel, Switzerland), Christoph Steven, Daiana Stolz, Michael Tamm

**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

**Endobronchial valve implantation for major hemoptysis.**
Kathleen Jahn (Basel, Switzerland), Daiana Stolz, Michael Tamm

**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

**PERSISTENT AIRLEAK TREATED WITH ENDOBRONCHIAL VALVES, A TERTIARY HOSPITAL EXPERIENCE.**
Cristina Sánchez Fernández (Oropesa, Spain), Katiuska Herminia Itendo Martínez, Christian Reynaldo Castro Riera, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu

**ROLE OF CRYOBIOPSY IN THE INTERSTITIAL LUNG DISEASE DIAGNOSTIC ALGORITHM**
Alejandro Gofin Bonmati (Valencia, Spain), Marina Alcaraz Barcelona, Wanda Almonte Batista, Javier Cruz Ruiz, Concepción Patricia López Miguel, Jesús Jiménez López, Raúl Godoy Mayoral, Alvaro Hurtado Fuentes, Rafaela Sánchez-Simón Talero, Ana Núñez Ares

**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

**Women in interventional pulmonology - results from a worldwide survey**
Judith Brock (Heidelberg, Germany), Sonja Zehetmayer, Daniela Gompelmann

**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
Impact of ultrathin cryoprobe on conventional radial EBUS guided transbronchial cryobiopsy of lung nodules
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Chan Sin Char, Ng Aun Hung Ng, Rong Lih Ho, Mei Ching Yong, Siew Kim Chan, Adam Malik Ismail, Siew Teck Tie

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

Healthy volunteer symptom profile following research bronchoscopy
Hazel Morrison (Bridgewater (Somerset), United Kingdom), Julia Marshall, Celia Mitton, Raquel Lopez Ramon, Timothy Fredsgaard-Jones, Andrew Mawer, Clare Wilkins, Henry Bettinson, Timothy Hinks, Helen Meshane

Shape Sensing Robotic-Assisted Bronchoscopy for Diagnosis of Ground-Glass and Subsolid Pulmonary Nodules
David Abia-Tujiillo (St Johns, United States), Nikitha C. Chandra, Alejandra Yu Lee-Mateus, Anoop Koratalla, Sina Neshat, Neal M. Patel, Katherine L. Walsh, Ryan M. Chadha, Sebastian Fernandez-Bussy

Diagnostic yield of bronchoalveolar lavage in the investigation of lung cancer
Stephanie Wang (Dollard des Ormeaux, Canada), Laetitia Amar, Ping Shi Zhu

Session 448
PS-3 in poster area

**Poster session: Exercise capacity in respiratory diseases**

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

**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)

**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

**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

**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 Faciolì Dos Reis Borges, Jefferson D. Silva-Valente, Camila Sato Barros Da Amaral, Edival Ferreira De Oliveira Júnior, Eduardo Fernandes Da Silva Junior, Thais Jordão Perez Sant’Anna Motta, Audrey Borghi-Silva, Fernando Val

**Identical breath-by-breath and mixing-chamber gas exchange values of cardio-pulmonary exercise test systems by metabolic simulator**
Herman Groepenhoff (Lijnden, Netherlands), Jammarten Burg Van Den, Joachim Schwertberger, Tjeu Souren

**Association between the first ventilatory threshold and the lean mass**
Vitalia Faoro (Brussels, Belgium), Corentin Scoubeau, Alexis Gillet, Olivier Taton, Marine Carpentier, Julie Carpentier, Malgorzata Klisz

**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

**Ventilation rate and bronchial response in diagnosis of exercise-induced bronchospasm in asthmatic**
Debora Carneiro De Mendonca (Vitória de Santo Antão, Brazil), Glívia 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

**Proportional Tidal Volume Variation during cardio-pulmonary exercise testing to diagnose Dysfunctional Breathing in Patients with Exertional Dyspnoea**
Florent Baty (St. Gallen, Switzerland), Georg Knöpfel, Friedrich Uhl, Lukas Kern, Martin Brutsche

**Exercise capacity in myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) treated with long-term pyridostigmine**
Sarra Al-Zayer (Boston, United States), Johanna Squires, David Systrom

**Validation of a new modified 6-minute walk test (6MWT)**
Winfried Baden (Tübingen, Germany), Richard Spallek, Ludger Sieverding
PA4641 Comparison of the 6-minute walk test (6MWT) with submaximal cardiopulmonary exercise testing (CPET) in patients diseased with transthyretin amyloidosis with cardiomyopathy (ATTR-CM)
Robin Willixhofer (Vienna, Austria), Dadjar Immanuel Hostermann, Farideh Alasti, David Niederseer, Roza Badr-Eslam

PA4642 The mBorg/6MWD ratio – a method to assess exertional breathlessness and leg fatigue using the 6-minute walk test: the CanCOLD study
Magnus Ekström (Lund, Sweden), Pei Zhi Li, Hayley Lewthwaite, Jean Bourbeau, Wan Tan, Dennis Jensen

PA4643 6MWT performance of COPD exacerbators
Zlatina Ivanova (Pleven, Bulgaria), Nikolay Kyuchukov, Yavor Ivanov

PA4644 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
Robin Willixhofer (Vienna, Austria), Rene Rettl, Christina Kronberger, Franz Duca, Christina Binder, Andreas Kammerlander, Johannes Kastner, Jutta Bergler-Klein, Roza Badr-Eslam

PA4645 HR/V'O2 and HR/V'CO2 slope: new tools for CPET evaluation?
Flavio Marco Mirabelli (Roma, Italy), Matteo Morviducci, Luigi Panza, Daniel Piamonti, Roberto Flore, Giulia Lo Muzio, Altea Lecci, Dario Angelone, Paolo Palange

PA4646 Re-evaluating the optimal threshold for the VE/VCO2-slope in risk stratification before lung cancer surgery
Karolina Kristenson (Linköping, Sweden), Johan Hylander, Miklos Boros, Anna Fyrenius, Kristofer Hedman

PA4647 Altered ventilation efficiency at exercise after recovery from COVID-19 infection versus healthy controls
Emilie Maufroy (Bruxelles, Belgium), Corentin Scoubeau, Kevin Forton, Manon Bellaches, Cyril Tordeur, Vitalie Faoro, Gae Deboeck

PA4648 Severity and phenotypes of dyspnea in asthma: impact of comorbidities
Cécile Chenivesse (Lille Cedex, France), Awa Bousou, Celine Chuffart, Maxime Leroy, Alice Gicquello, Aurelie Cottereau, Florence Hennegraeve, Antoine Beurnier, Thomas Stoup, Sophie Pereira, Capucine Morelot-Panizni, Camille Taille, Nathalie Bautin, Stephanie Fry, Thierry Perez, Gilles Garcia

PA4649 Assessment of a novel 15 Watt/minute incremental ramp treadmill protocol for cardio-pulmonary exercise testing in Indian population.
Geetanjali Bade (New Delhi (Delhi), India), Abhijith K Anil, Kumar Nischay Jaiswal, Anjana Talwar

PA4650 Late Breaking Abstract - Phenotyping dynamic and "static" lung volumes in COPD: implications for exertional dyspnea and exercise tolerance
J. Alberto Neder (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 Ruchland, 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 Martinez, Katiuska Herminia Liendo Martinez, Elena Ojeda Castillejo, Ilaft Latif Essa, Francisco Jose Caballero Segura, Luis Puente Maestu, Soledad Lopez Martin

PA4653 Automatic detection of ineffective efforts (IE) in non-invasive ventilation (NIV)
Pablo Florez Solarana (Sabadell, Spain), Cristina Lamolmola 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-Strobel, 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

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 mechanical ventilation/teledicine NIV initiation and follow-up in ALS patients during and after COVID pandemic
Gualtiero Emundo Romano (Bari, Italy), Paola Pierucci, Marialuisa De Candia, Pierluigi Intiglietta, Simone Rizzelli, Alberto Carrassi, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpagnano

PA4663 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

PA4664 Effect of Non-Invasive Ventilation on FVC and diaphragm thickening fraction improvement in AE-COPD with hypercapnic acidosis and acute respiratory failure
Matthias Felten (Berlin, Germany), Saba Khan, Sarah Schwarz, Maximilian Wollsching-Strobel, Doreen Kroppen, Tim Mathes, Friederike Magnet, Wolfram Windisch

PA4665 Comparison of constant-minute-volume vs. constant-bolus systems for ambulatory long-term-oxygen therapy in patients with severe COPD – a randomized crossover trial
Koichi Kurita (Jαpan), Takao Kitamura, Takeshi Konno, Yuji Saito, Hiroshi Endo, Tetsuji Hasegawa, Atsushi Nakamura, Kenji Ueda, Shuichi Todo

PA4666 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

PA4667 Effects of hypercapnia on alveolar epithelial cells and macrophages infected with pneumonia-causing bacteria
Elena Campaña-Duel (Sabadell, Spain), Luis Morales-Quinteros, Adrian Ceccato, Aina Arencibia-Balagueró, Pamela Conde, Luis Blanch, Laia Fernández, Antonio Artigas, Marta Camprubí-Rimblas

PA4668 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 Witzenrath

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), Reinoud Gosens (Groningen, Netherlands)

The effect of Porphyromonas gingivalis on inflammatory pathology in normal or COPD airway
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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 Witzenrath
**Virlaza™ Inhibits SARS-CoV-2-induced Inflammatory Response of Bronchial Epithelial Cells and Pulmonary Fibroblasts**

Rodolfo De Paula Vieira (Anaúpolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anaemei Silva-Reis, Lucas Dos Santos Zamarioli, Sergei Urusov, Tatyania Mostepan, Evgenya Kravchenko, Carlos Rocha Oliveira, Rubens Santos-Silva, Razi Ronen

**Epithelial recovery post COVID-19**


**LPS treatment enhances the immunomodulatory effect of mesenchymal stromal cells-derived extracellular vesicles**

Aina Arely Balagueró (Sabadell, Spain), Marta Camprubi-Rimblas, Elena Campaña-Duel, Adrián Cecatto, Daniel Closa, Antonio Artigas

**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

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Misako Nakayama (Munich, Germany), Yuri Morikawa, Takako Sasamura, Jun Terai, Thanh Cong Nguyen, Yasushi Itoh

**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

**Cellular stress and senescence in alpha-1 antitrypsin deficiency: therapeutic opportunities**

Mark Murphy (Dublin, Ireland), Lasya Kanchi, Malcolm Herron, Tomás Carroll, Gerry Mcelvaney

**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, Hubertas P A Jersmann, Paul N Reynolds

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**Eosinophilia and the microbiome in COPD**

Gunnar Reksten Husebø (Fana, Norway), Rune Nielsen, Kristel Knudsen, Andreu Paytuvi-Gallart, Walter Sanseverino, Tomas Eagan

**Eosinophilia and the microbiome in COPD**

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**Biomass particles activate IKB-α, P-38 and ERK pathways in human macrophages.**

Peter Fenwick (London, United Kingdom), Rebecca Holloway, Sundeep Salvi, Peter Barnes, Louise Donnelly

**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

**Cigarette smoke exposure promotes tumorigenesis via G-quadruplex destabilization in a vitro model of macrophages**

Davida Mirra (Caserta, Italy), Giuseppe Spaziano, Renata Esposito, Francesca Panic, Salvatore Di Maro, Erica Salvati, Erika Cione, Luca Gallelli, Sandro Cosconati, Bruno D'Agostino
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
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

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 Stehr Jensen

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 Scafidi Argentina, Elena Garavelli, Eleonora Ingrassia

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, Seham Issa, Isao Matsumoto, Yuri Yoshida, Hana Mullerova

**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)

**Session 452**

**12:30 - 14:00**

**PA4707** Biological treatment in persistent severe asthma
Edurne Echevarria Guerrero (Barakaldo, Spain), Ana Gómez Larrauri, Jone Solorzano Egurde, Imanol González Muñoz, Elena Garay Llorente, Teresa Bretos Dorronsoro, Silvia Pérez Fernández, Milagros Iriberri 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

Follow-up of patients with severe eosinophilic asthma receiving benralizumab for one year (gReek rEAl Life regIStry of benralizuMab: REALISM Study)

**PA4710** Treating severe IgE mediated allergic adult asthmatics with omalizumab outside the dosing table
Etienne Ceci Bonello (Naxxar, Malta), Caroline Goulder

**PA4711** Agreement and discrepancies between past prescribing decisions and future prescribing preferences: An EU outlook
Samantha Valliant (Upper Providence, United States), Joshua Harvey, Shiyouan 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, Shiyouan 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, Rehah 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, Librado Jimenez-Maldonado, Mauricio Duran, Juan Bedoya, Carlos A. Torres-Duque
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

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 Folkesen (Århus C, Denmark), Johannes Schmid, Tina Skjold, Anne Sophie Bjerrum

The clinical experience of patients with severe asthma and previous treatment with omalizumab, choosing mepolizumab in Greece.


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

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

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

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

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, Neill Martin, Jean-Pierre Llanos, Celeste Porsbjerg, Christopher E Brighting

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, Karin Meeran, Salman Siddiqui, Peter Bradding

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 Kurukullaarathy, Paddy Dennison, Nadia Zarif, Hitasha Rupani

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, Toshiohshi Shirai
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 Sanchis, Alejandro Álvarez Brito, Eva Martínez Moragón

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

Well-controlled severe asthmatics: who they really are?
Venere Piluso (Rome, Italy), Francesca Cefaloni, Cristina Boccabella, Luca Richeldi, Matteo Bonini

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

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

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 Levrà, Massimo Terzolo, Fabio Luigi Massimo Ricciardolo, Giuseppe Guida

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

What adds the new definition of bronchodilator responsiveness in asthmatic adults?
Hela Fakhfakh (Sfax, Tunisia), Rim Kammoun, Emma Eleuch, Asma Haddar, Mokh Maalej, Ines Kammoun, Kadhawar Masmoudi

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 Levrà, Fabio Luigi Massimo Ricciardolo

The effect of anti-IL-5-IL biology 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

Effectiveness of anti-IL5.5 biology in severe asthma, based on real world observational studies: a systematic review
Dimitrios Potonos (Ioannina, Greece), Konstantinos Exarchos, Christina Aggelopoulou, Evangelos Beris, Aggelos Ladas, Christos Kyriakopoulos, Athena Gogali, Konstantinos Kostikas

“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 Levrà, Fabio Luigi Massimo Ricciardolo

Characterisation of asthma in patients with fixed obstructive ventilatory disorder
Ines Moussa (Bizerte, Tunisia), SABRINE ELFIDHA, Hadhemi Rejeb, Rania Kaddoussi, Bochra Karaborni, Hanen Smadh, Dorra Greb, Ines Akrout, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche

Effects of anti-IL-5 receptor α in severe asthma: a real-life study
Francesco Ardesi (Varese, Italy), Martina Zappa, Patrizia Pignatti, Sarah Grossi, Rosella Centis, Dina Visca, Antonio Spanevello

Phenotyping severe asthma attacks in patients hospitalised with acute asthma
Mouad Aljehani (Nottingham, United Kingdom), Tim Harrison, Matthew Martin

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 Jochemann, Lukas Kern, David Miedinger, Nikolay Pavlov, Thomas Rothe, Claudia Steurer-Stey, Christophe Von Garnier, Joerg Daniel Leuppi

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
Borisлав Božanić (Niš, Republic of Serbia), Marija Topalović, Ivana Stanković, Tatjana Pejić, Desa Nastasjević Borovac, Ana Srblović 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 Eliesen, 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, Sundev 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 Carpanago, 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 Vatrèla, 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 Chenivesse, 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 Nevrlnka (Brno, Czech Republic), Katarina Ditetova, Zlatica Nevrlnkova, Lenka Zdrázilova-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, Stagiana Stoshikj, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

PA4753 Effectiveness and Safety of Anti-IL-5/Rα Biologics in Eosinophilic Granulomatosis with Polyangiitis: A Two-Year Multicenter Observational Study
Santi Nolasco (Catania, Italy), Andrea Portacci, Raffaele Campisi, Enrico Buonamico, Corrado Pelaia, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiaffa, Giulia Scioscia, Aiakerini Detoraki, Giusepp Valenti, Francesca Papia, Alessandra Tomassello, Nunzio Crimi, Nicola Scichilone, Girolamo Pelaia, Giovanna Elisiana Carpanago, Claudia Crimi

PA4754 Role of Galectin-10 (Gal-10) in nasal epithelium inflammation and remodeling of children with seasonal allergic rhinitis (SAR)
Rosalia Gagliardo (Palermo (PA), Italy), Olga Maria Manna, Stefania La Grutta, Velia Malizia, Alberto Fucarino, Francesca Rappa, Dominaza Picone, Salvatore Fasola, Miarella Profita, Fabio Buccheri

PA4755 Grading the severity of the local side effects induced by Sublingual Immunotherapy for Allergic Respiratory Disease
ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamdi, Zied Moatamari

PA4756 Obese asthma with positive type-2 inflammation markers: Cytokine profiles and potential pathogenesis
Masako To (Saitama, Japan), Natsue Honda, Kosuke Haruki, Yasuo To
PA4757  
Real-world outcomes with mepolizumab in patients with severe asthma and comorbid anxiety/depression: REALITIA at 2 years  
Rekha Chaudhuri (Glasgow (Glasgow), United Kingdom), Mark C. Liu, Diego Bagnasco, Andrea Matucci, Charles Pilette, Robert G. Price, Lydia Demetriou, Peter Howarth

PA4758  
Experience of the COVID-19 pandemic in asthmatic patients  
Soumaya Ben Saad (Ariana, Tunisia), Safa belkhir, Amani Ben Mansour, Azza Slim, Hafoua Daghfous, Fatma Tritar

PA4759  
The Burden of Allergic Bronchopulmonary Aspergillosis in Post-Tuberculosis Lung Disease Patients Presenting to a Tertiary Referral Centre  
Animesh Ray (Kolkata (West Bengal), India), Anuj Ajay, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Navneet Wig

PA4760  
Doctors Clinical-Decision making Algorithm for Allergy to Anti-Tuberculosis Drugs in Tunisia  
ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamedi, Zied Moatamri

PA4761  
The role of specific and total IgE in COPD  
Eleni Papakonstantinou (Basel, Switzerland), Meropi Karakioulaki, Caroline-Maria Berkemeier, Leticia Grize, Ingmar Heijnen, Antonis Goulas, Michael Tamm, Daiana Stolz

PA4762  
Patient burden on refractory and unexplained chronic cough: a qualitative survey in Japan  
Takekazu Kubo (Tokyo, Japan), Naoya Ueda, Masakazu Igarashi, Anzu Yakushiji, Shigeru Tokita

PA4764  
Anti-staphylococcal enterotoxin A and B immunoglobulin E in COPD  
Eleni Papakonstantinou (Basel, Switzerland), Meropi Karakioulaki, Caroline-Maria Berkemeier, Ingmar Heijnen, Leticia Grize, Antonis Goulas, Michael Tamm, Daiana Stolz

PA4765  
Clinical relevance of Staphylococcus aureus nasal colonization and Staphylococcal enterotoxin-specific IgE sensitization in late-onset asthma  
Ha-Kyeong Won (Seoul, Republic of Korea), Youngsang Yoo, Noeul Kang, Ji-Hyang Lee, Jun-Pyo Choi, Tae-Bum Kim, Sang Heon Cho, Woo-Jung Song

PA4766  
Modelling small airways disease at air-liquid-interface with extended NTHi biofilm co-culture: Implications in COPD.  
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, AstraZeneca and GSK  
Chairs : Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

12:45  
Value based health care in diverse healthcare contexts?  
Zofia Das-Gupta (, United Kingdom)  
4767

13:00  
Panel on value-based healthcare in COPD - my view  
Job F.M. van Boven (Groningen, Netherlands), Simon Barry (Valle of Glamorgan, United Kingdom), Nicholas Hopkinson (London, United Kingdom), Mikaela Odemyr (Järved, Sweden)  
4768

13:20  
Questions and answers  
All Speakers  
4769

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)

14:00 Precision medicine in IPF
Athol Wells (London, United Kingdom)

14:15 New developments in HP diagnosis and therapeutic management
Martina Koziar Vasakova (Praha 10, Czech Republic)

14:30 Rheumatoid arthritis and the lungs: new concepts and treatments
Katerina Antoniou (Heraklion, Greece)

14:45 Discussion and Q&A
All Speakers

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)

14:00 Advances in physiological assessments of small airways diseases in asthma and COPD for everyday clinical practice
Chung-Wai Chow (Toronto (ON), Canada)

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)

14:30 Targeting and treating small airways disease in patients with asthma and COPD
Omar S. Usmani (London, United Kingdom)

14:45 Discussion and Q&A
All Speakers

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
**Chair(s):** Florence Schleich (Liège, Belgium), Charlotte Suppli Ulrik (Virum, Denmark), Kjeld Hansen (Oslo, Norway)  
**Discussant(s):** 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 Kirs, 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. Yiailouros

**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

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**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**  
**Incidental findings: the Radiologist’s experience**  
Jens Vogel-Claussen (Hannover, Germany)  

**14:00**  
**Patient’s perspective**  
Raul Jorge Saraiva Simões Maia (Portugal)  

**14:05**  
**Incidental findings: the GP’s perspective**  
Vjekoslava Amerl Šakić (Zagreb, Croatia)

**14:20**  
**The pulmonologist’s new challenge: emphysema and ILA out of LDCT**  
Juan Pablo de Torres Tajes (Zizur Mayor, Spain)

**14:35**  
**Discussion and Q&A**  
All Speakers

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**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)

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<th>Time</th>
<th>Session 465</th>
<th>Presenter</th>
<th>Location</th>
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<tr>
<td>13:45</td>
<td>Biomarkers in lung cancer screening: can they impact clinical management plans?</td>
<td>Ehab Bilatlos (Boston, United States)</td>
<td>4810</td>
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<td>14:00</td>
<td>Lung cancer detection by the electronic nose</td>
<td>Wouter H. van Geffen (Leeuwarden, Netherlands)</td>
<td>4811</td>
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<td>14:15</td>
<td>Emerging bronchoscopic options for early detection of lung cancer</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
<td>4812</td>
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<td>14:30</td>
<td>Lung cancer screening in Europe: a first snapshot by SOLACE</td>
<td>Marie-Pierre Revel (Paris, France)</td>
<td>4813</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**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 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)

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<th>Session 466</th>
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<tr>
<td>13:45</td>
<td>Molecular mechanisms of ventilator induced lung injury</td>
<td>Martin Witzenrath (Berlin, Germany)</td>
<td>4815</td>
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<tr>
<td>14:00</td>
<td>Evidence-based invasive mechanical ventilation in ARDS</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
<td>4816</td>
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<tr>
<td>14:15</td>
<td>Extracorporeal membrane oxygenation in ARDS: state of the art</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
<td>4817</td>
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<tr>
<td>14:30</td>
<td>Weaning from mechanical ventilation</td>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
<td>4818</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4819</td>
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**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)

### Sessions

#### 13:45 - 14:00
**Patient's perspective**
Robinne De Backker (Belgium)

#### 13:50 - 14:05
**Basics of genetic diagnostics**
Marie Legendre (Paris, France)

#### 14:05 - 14:20
**Surfactant disorders: from neonatal respiratory distress to cancer predisposition**
Lawrence Mark Nogee (Baltimore, United States)

#### 14:20 - 14:35
**Models for ciliated airway epithelial cells and personalised medicine**
Andrew Berical (Boston, United States)

#### 14:35 - 14:45
**Discussion and Q&A**
All Speakers

### INDUSTRY SKILLS LAB WORKSHOP

#### 14:00-14:45
**Session 468**

#### 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
**Pulmonary embolism diagnostic strategies in patients with COPD exacerbation: post-hoc analysis of the PEP trial**
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

#### 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 Penoau, Raphaël Lachand, Sandrine Accassat, Thibault Leconte, Elie Ayoub, Loïc Villeneuve, Cyril Noto-Campanella, Alain Viallon

#### OA4829
**Outpatient management of cancer-related pulmonary embolism: a post-hoc analysis of the HOME-PE trial**

#### 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 Martinez, Olga Tura Ceide, David Hervás Marín, Elena Arellano Orden, Isabel Blanco, Víctor Peinado, Pilar Medina Badenes, Joan Albert Barberá, Verónica Sánchez López

#### OA4832
**HDAC6 regulates endothelial-to-mesenchymal transition in venous thrombosis**
Catherine Lemarie (BREST, France), Marion Pilard, Virginie Gourdou-Latyszenok, Sara Robin, Francis Couturaud
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 Holto Johanniesssen, Martijn Spruit, Dan Atar, Rene Holst, Anders Erik Astrup Dahm, Per Anton Sirnes, Knut Stavem, Waleed Ghanima

Rate of clinically relevant bleeding and recurrent venous thromboembolism according to location of the metastases in patients with cancer associated thrombosis.
Víctor García García (Sevilla, Spain), Maria Barca-Hernando, Samira Marin Romero, Sergio Lopez Ruz, Teresa Elias-Hernandez, Luis Jara Palomares

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

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

Late Breaking Abstract - Obstructive sleep apnoea phenotypes in women: data from the ESADA cohort
Anastasia Pataka (Thessaloniki, Greece), Sebastien Bailly, Maria Bonsignore, Tarja Saarebranta, 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

OSA phathophysiological 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

Modification of OSA endotypic traits by sulthiame
Erik Hoff (Göteborg, Sweden), Christian Strassberger, Ding Zou, Kaj Stenlöff, Ludger Grote, Jan Hedner

Redefining the Baveno Classification for obstructive sleep apnea
Sandhya Matthes (Solingen, Germany), Marcel Treml, Lars Hagmeyer, Winfried Randerath

Ischemia-modified albumin: an innovative biomarker evaluating cardiovascular risk in Obstructive Sleep Apnea patients.
Pilar Resano Barrio (Guadalajara, Spain), Enrique Alfar Garcia, Esther Solano Perez, Carlota Coso Serrano, Carolina Cubillos Zapata, Elena Diaz Garcia, Sofia Romero Peralta, Maria Esther Viejo Ayuso, Laura Silgado Martinez, Leticia Alvarez Balado, Maria Castillo Garcia, Rosa Mediano San Andres, Irene Cano Pumarega, Jorge Abad, Joaquín Durán Cantolla, Amaia Urrutia, Maria Jose Masdeu, Estrella Ordax Carbajo, Juan Fernando Masa, Monica De La Peña, Mercé Mayos, Ramón Coloma, Josep Maria Montserrat, Eusebi Chiner, Jose Luis Izquierdo, Ferrán Barbé, Francisco Garcia Rio, Manuel Sanchez De La Torre, Olga Mediano

Obstructive sleep apnea with excessive daytime sleepiness is an independent risk factor for all-cause mortality: The Skara Sleep Cohort
Ding Zou (Gothenburg, Sweden), Ying Li, Ludger Grote, Ulf Lindblad, Jan Hedner*, Bledar Daka*

Prevalence of depression partly explains heterogeneity in prevalence of excessive daytime sleepiness in patients from different Countries in the European Sleep Apnea Database (ESADA)
Maria Rosaria Bonsignore (Palermo, Italy), Sebastien Bailly, Fabio Cibella, Alessandra Castrogiovanni, Sofia Schiza, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of Esada

Excessive daytime sleepiness across Europe in OSA patients from the ESADA cohort: does cultural differences matters?
Izolde Bouloukaki (Heraklion (Crete), Greece), Renata Riha, Ludger Grote, Marisa Bonsignore, Jan Hedner, Jean-Louis Pépin, Anastasia Pataka, Winfried Randerath, Sébastien Bailly, Silke Ryan, Sophia Schiza

Overnight variation of premature ventricular complexes in patients with CSA and heart failure
Christoph Fissor (Regensburg, Germany), Amelie Ebert, Valentin Günzler, Florian Zeman, Dominik Linz, Holger Wöhrlle, Renaud Tamisier, Martin R Cowie, Michael Arzt
Incongruence of the apnea/hypopnea index in detecting intermittent desaturations at very high altitude
Elisa Ferger (Milano, Italy), Margarida V. Matias, Davide Soranna, Antonella Zambon, Javier Cantuarias, Simona Bertoli, Carolina Lombardi, Gianfranco Parati

Discussion and Q&A
All Speakers

OA4846
Incongruence of the apnea/hypopnea index in detecting intermittent desaturations at very high altitude
Elisa Ferger (Milano, Italy), Margarida V. Matias, Davide Soranna, Antonella Zambon, Javier Cantuarias, Simona Bertoli, Carolina Lombardi, Gianfranco Parati

OA4847
Discussion and Q&A
All Speakers

OA4848
Late Breaking Abstract - Artificial intelligence-based detection support for HRCT stratification in fibrotic lung disease; an international study of 116 observers from 37 countries.

OA4849
Alveolar collapse as a prognostic marker in patients with IPF: A CT-based assessment using an extended parametric response mapping technique
Sarah Scharm (Hannover, Germany), Jonathan Ehmg, Cornelia Schaefer-Prokop, Anton Schreuder, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Ooh Shin

OA4850
In-vivo endobronchial-PS-OCT for fibrosis quantification in ILD
Tatiana Soldati (Amsterdam, Netherlands), Margherita Vaselli, Kirsten Mooij - Kvalver, Erik Thunnissen, Michael Tanck, Onno Mets, Van Den Berk, Jouke Annema, Peter I. Bonta, Johannes De Boer

OA4851
Prognostic modeling in idiopathic pulmonary fibrosis using deep learning
Alexandre Coimbra (South San Francisco, United States), Neha Anegondi, Yixuan Zou, Xuefeng Hou, Mohammadreza Negahdar, Dorothy Cheung, Paula Belloni, Alex De Crespiigny

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 Wellham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavunwe, Francis Sundram, Tom Wilkinson

OA4857
Impaired xenon gas transfer observed two years after COVID-19 hospitalisation in patients with signs of interstitial lung disease
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Laura Saunders, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Laurie Smith, Martin Brook, Alberto Biancardi, Madhewsha Rao, Graham Norquay, Neil Stewart, James Grist, Kher Liq 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)

Late Breaking Abstract - Efficacy of a respiratory syncytial virus (RSV) prefusion F protein vaccine (RSVPreF3 OA) in older adults with co-existing cardiorespiratory conditions

OA4859

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, Veronika Hulström

OA4860  CheXED artificial intelligence to detect radiographic pneumonia in urgent care clinic patients.

OA4861  Individualized treatment rule (ITR) for early steroid use in hospitalized patients with community acquired pneumonia (CAP)

OA4862  Molecular diagnostic resistance patterns in the BALF of hospitalised patients with pneumonia

OA4863  Diagnostic behaviours among patients with community acquired pneumonia in the age of CoVid-19

OA4864  Epidemiology of community-acquired pneumonia (CAP) in Europe during the COVID-19 pandemic –preliminary results of PNEUMO study Europe

OA4865  The clinical efficacy of cefoperazone-sulbactam versus piperacillin-tazobactam in the treatment of severe community-acquired pneumonia

OA4866  Quality of life following CAP hospitalization: preliminary results from the PNEUMO study Europe

OA4867  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)

Neural gating of respiratory sensations during exercise-induced dyspnea

OA4870

Lucas Vanden Bossche (Leuven, Belgium), Michele R. Schaeffer, Mingqi Zhao, Dante Mantini, Wim Janssens, Thierry Troosters, Daniel Langer, Andreas Von Leupoldt

Mechanism of dyspnea relief from menthol inhalation in healthy adults during loaded breathing trials

OA4871

Michele Schaeffer (Leuven, Belgium), Lucas Vanden Bossche, Valentina Jelinčić, Kristin Verbeke, Daniel Langer, Andreas Von Leupoldt
Greater awareness of errors in patients with COPD
Ysys Denutte (Leuven, Belgium), Alicia Gonsalves, Thomas Reijnders, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

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

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

Physical inactivity and personality change in people with chronic respiratory diseases
Sébastien Kuss ( Lodève, France), Nelly Héraud, Brice Canada

Psychosocial factors associated with short-term CPAP usage
Leanne Kaye (San Diego, United States), Vy Vuong, Adam Benjafeld, Priyanshu Gupta, Meredith Barrett

Pilot Online Psychological Group Intervention for ILD patients
Laura Fabbri (London, United Kingdom), Victoria Singh, Melissa Creese, Elizabeth Renzoni

Patient-reported outcomes encourage communication about psychosocial issues in patients with COPD.
Louise Maxoll Gronhaug (Vejle, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke, Jannie Frolund

Physical inactivity and personality change in people with chronic respiratory diseases
Sébastien Kuss ( Lodève, France), Nelly Héraud, Brice Canada

Discussion and Q&A
All Speakers

Amber 3+4  Session 473  14:20 - 17:10
Skills workshop: SW15 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  Normal Thoracic Cavity
Giovanni Volpicelli (Torino (TO), Italy), Morten Bendixen (Skejby, Denmark)  4881

14:50  Pleural effusion and/or pleural thickening
Valentina Pinelli (Sarzana, Italy), Konstantina Kontogianni (Heidelberg, Germany)  4882

14:50  Case studies
Radhika Banka (Mumbai (Maharashtra), India)  4883

14:50  Guided interventions
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 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)
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>14:30</td>
<td>Radiological assessment of pulmonary hypertension</td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
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<td>14:30</td>
<td>Pathological assessment of pulmonary hypertension</td>
<td>Peter Dorfmuller (Le Plessis-Robinson, France)</td>
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<td>14:30</td>
<td>Echocardiography in pulmonary hypertension</td>
<td>Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)</td>
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<tr>
<td>14:30</td>
<td>Clinical assessment of pulmonary hypertension</td>
<td>Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)</td>
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**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** Case 1 incl. panel discussion and Q&A - Author: J. R. Macedo Pacheco (Portugal)  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

- **15:52** Case 2 incl. panel discussion and Q&A - Author: P. Sharma (India)  
Michael Kreuter (Heidelberg, Germany)

- **16:14** Case 3 incl. panel discussion and Q&A - Author: L. Benuzzi (Italy)  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

- **16:36** Case 4 incl. panel discussion and Q&A - Author: R. G. Girolamo (Italy)  
Michael Kreuter (Heidelberg, Germany)

**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** The best of the ERJ: air pollution and climate change  
Isabella Amnesi Maesano (Montpellier, France)

- **15:45** The best of the ERJ: airways disease  
Mona Bafadhel (London, United Kingdom)

- **16:00** The best of the ERJ: COVID-19 and long COVID  
Joan B Soriano (Madrid, Spain)

- **16:15** The best of the ERJ: interstitial lung disease  
Martin Kolb (Hamilton (ON), Canada)
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

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

15:30 Guidance towards timely initiation of palliative care for people with COPD or ILD
Daisy J.A. Janssen (Horn, Netherlands)

15:45 Patient and caregiver’s perspectives
Albert Devillers (Belgium), Chantal van den Dungen (Juprelle, Belgium)

15:50 Palliative care for people with COPD or ILD: the perspective of the patient and informal caregiver
Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

16:05 Discussion and Q&A
All Speakers

16:15 Which is better, as-needed ICS/formoterol alone or regular low-dose ICS maintenance treatment?
Richard Beasley (Wellington, New Zealand)

16:30 Which is better, as-needed ICS/formoterol alone or as-needed SABA alone?
Ioana Agache (Brasov (Brasov), Romania)

16:45 Discussion and Q&A
All Speakers

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 What is the early stage mesothelioma?
Lucian Chirieac (Boston, United States)

15:45 Radical surgery should be offered to patients with early stage, technically resectable mesothelioma
Nuria M. Novoa (Majadahonda, Spain)

16:00 Radical surgery should not be offered to patients with early stage, technically resectable mesothelioma
Najib M. Rahman (ABINGDON, United Kingdom)
A look into the future: active trials and research strategies for early-stage mesothelioma
Kevin Blyth (Glasgow (Glasgow), United Kingdom)

Discussion and Q&A
All Speakers

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  Is GGO a real entity?
William Travis (New York, United States)

15:45  Ground glass opacities of the lung after the COVID-19 pandemic
Katarzyna Zanowska (Krakow, Poland)

16:00  Should GGO always be closely follow-up?
Pallavi Purwar (New Delhi, India)

16:15  Screening programme for lung cancer GGO
Ugo Pastorino (Milan, Italy)

16:30  Discussion and Q&A
All Speakers

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  Case 1 incl. panel discussion and Q&A - Author: C. Tomsa (Italy)
   Marieke L. Duiverman (Groningen, Netherlands)

15:52  Case 2 incl. panel discussion and Q&A - Author: J. Riera Del Brio (Spain)
   Christoph Fisser (Regensburg, Germany)

16:14  Case 3 incl. panel discussion and Q&A - Author: R. Severin (United States of America)
   Marieke L. Duiverman (Groningen, Netherlands)

16:36  Case 4 incl. panel discussion and Q&A - Author: T. Said Ahmed (United States of America)
   Christoph Fisser (Regensburg, Germany)

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 Real-world evidence vs randomized controlled trials: friends or foes? Giorgio Walter Canonica (Milano (MI), Italy) 4920

15:45 The future of evidence generation using mHealth tools Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom) 4921

16:00 Building registries to inform decision-making: potential and challenges David Price (Singapore, Singapore) 4922

16:15 Discussion and Q&A 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 Introduction Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France) 4925

15:50 A fresh start for steroids in bronchiectasis Jennifer Pollock (Dundee, United Kingdom) 4926

16:02 Hypoxic burden: sleeping with the enemy Lucia Pinilla (Lleida, Spain) 4927

16:14 Pulmonary rehabilitation: a secret weapon against COPD flare-ups Ana Filipa Machado (Senhora da Hora, Porto, Portugal) 4928

16:26 The gut-lung odyssey: rise of the microbial force Rashad Mohammad Mahbub (Sydney, Australia) 5447

16:38 Vote, presentation and interview of the winner 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)
Late Breaking Abstract - ECG-derived risk factors for adverse cardiopulmonary outcomes in COPD patients: IMPACT post hoc analysis
Raymond Wade (Birmingham, United States), Fernando J. Martinez, Gerard J. Criner, Lee Tombs, David A. Lipson, Mark T. Dransfield

The impact of blood eosinophil levels on in-hospital mortality in a large cohort of 960 hospitalized AECOPD patients
Emine Seda Dikmentepe Yilmaz (Izmir, Turkey), Yelda Varol

Fibrinogen as a biomarker of cardiovascular risk in COPD
Mairi MacLeod (London, United Kingdom), Andrew Ritchie, Dexter Wiseman, Lydia Finney, Aaron Braddy-Green, Hassan Shalibakhht, Ralph Lopez, Jordin Mah, James P Allinson, Gavín C Donaldson, Jadwiga A Wedzicha

Do distinct phenotypes of heart failure coexisting with COPD influence endothelial function?
Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Viviane Castello-Simões, Cássia Da Luz Goulart, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nathany Souza Schafauer, Rodrigo Polaquini Simões, Melizia Goi Roscani, Audrey Borghi-Silva

Regional CT features for predicting rapid lung function decline in COPD
Kalysta Makimoto (Ajax, Canada), Meghan Koo, James Hogg, Jean Bourbeau, Wan Tan, Miranda Kirby

Expiration CT texture-based radiomics: a new biomarker for quantifying gas trapping in COPD
Meghan Koo (Markham, Canada), Ryan Au, Wan Tan, Jim Hogg, Jean Bourbeau, Miranda Kirby

Accuracy of the CAPTURE questionnaire for population-screening for COPD
Lancelot Pinto (Mumbai, India), Thakrar Dhara, Chawhan Ashwini

Long-term outcomes in patients with Pre-COPD or PRISm in NOVELTY
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 Agusti

FEV1/FVC severity stages for chronic obstructive pulmonary disease
Surya Bhatt (Birmingham, United States), Arie Nakhmani, Frank Sciaruza, Matthew Strand, Edwin Silverman, Sandee Bodduuri

Discussion and Q&A
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), Christopher Harris (London, United Kingdom)

Late Breaking Abstract - Differences in autophagy marker levels at birth in preterm vs. term infants
Noemi Künstle (Basel, Switzerland), Olga Gorlanova, Andrea Marten, Loretta Müller, Pawan Sharma, Martin Röösli, Pablo Sinues, David Schürmann, Céline Rüttimm, Carla Rebeca Da Silva Sena, Uri Nahum, Jakob Usemann, Ruth Steinberg, Sophie Yammine, Sven Schulzke, Philipp Latzin, Urs Frey

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 Rüttimm, Danielle Viennau, Kees De Hoogh, David Schürmann, Carla Rebeca Da Silva Sena, Martin Röösli, Pablo Sinues, Sven Schulzke, Ruth Steinberg, Jakob Usemann, Pawan Sharma, Urs Frey

Morphomolecular analysis of the capillary network in alveolar capillary dysplasia
Jan-Christopher Kamp (Hannover, Germany), Lavinia Neubert, Jonas C. Schupp, Christoph Wrede, Florian Lanenger, 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. Hoeper, Danny D. Jonigk, Lars Knudsen, Mark P. Kuehnel

Bronchiolitis in infancy is associated with irreversible obstruction in early adulthood
Sanna Saarikallio (Kangasala, Finland), Riikka Riikonen, Antti Tikkakoski, Eero Lauhkonen

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
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

The upper respiratory tract microbiota across the human lifespan: a nationwide Dutch population study.
Mari-Lee Odendaal (The Netherlands, Netherlands), Wouter De Steenhuysen Piter, Eelco Franz, Lidwien Smit, Debby Bogaert, Thijs Bosch

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

In neonatal βENaC-transgenic mice CF-like lung disease causes a dilatation of the conducting airways which increases until adulthood
Sanja Blaskovic (Bern, Switzerland), Pinelope Anagnostopoulou, Florian Kronig, Elena Borisova, Dominik Schmittny, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampanoni, Johannes C. Schmittny

Maternal obesity increases reflex bronchoconstriction in adult offspring in a diverse outbred mouse model
Zhening Nie (Portland, United States), Kayla Williams, Allison Fryer, David Jacoby, Alina Maloyan

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

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, Nicolle J. Domnik, Christopher M. Parker, Juan P. De-Torres, Onofre Moran-Mendoza, Devin B. Phillips, Denis E. O'Donnell

Age, sex and lung volume dependence of 129Xe MRI gas exchange metrics
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Guilhem Collier, Laura Saunders, Kher Ng, James Grist, A J Swift, Helen Davies, Alexander Horsley, A A R Thompson, Emily Fraser, Fergus Gleeson, J M Wild

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 Fournas, Robert Wise, Naresh Punjabi, Trishul Siddharthan

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

Phenotypes of functional CT imaging predict clinical outcome in ARDS patients
Mehdi Shekarnabi (Villeurbanne, France), Florian Sigaud, Maxime Gaillet, Alicia Guillien, Emmanuel Roux, Touria Ahouari, Edouardo Davila, Loic Boussel, 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

Hyperpolarised helium MRI in direct and indirect asthmatic airway challenge
Chuan Tai Foo (Victoria, Australia), Kris Nilsen, Gary Cowin, Bruce Thompson, Francis Thien

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, Vinceente Grau, Emily Fraser, Fergus V. Gleeson
Ventilation biomarkers derived by micro-CT (µCT) 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

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

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 Saadouli, Rahma Ben Jazia, Anis Maatallah, Abderrahmen Daadoucha, Jihene Ayachi

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)

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 Meniama, Christian Hedrich

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

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

Repetitive rhinovirus infection primes for amplified IL-13 induced airway epithelial responses
Huan Ma (Borstel, Germany), Draginja Kovacevic, Holger Heine, Susanne Krauss-Etschmann

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

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 Tun, Louisa L Y Chan, Renee WY Chan

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 Frossing, Morten Hvidtfeldt, Ditte Klein, Mandy Menzel, Manali Mukherjee, Parameswaran Nair, Juan Jose Nieto-Fontarigo, Sangheeta Ramu, Alexander Silberbrandt, Ager Sverrild, Lena Uller, Celeste Porsbjerg

Pirfenidone, an alternative treatment for viral-induced exacerbations?
Julia Chitty (Berwick, Australia), Bruce Montgomery, Philip Bardin, Jane Bourke, Belinda Thomas

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 (Campos Grande (MS), Brazil), Tiago Augusto, Rodrigo Koch, Gisele Barbosa, Fernanda Dias, Erlandson Saraiwa, Wolfram Windisch

PA4975 Virtual pulmonary rehabilitation: Does one size fit all?
Oliver Smith (London, United Kingdom), Jennifer Kilduff, Eilinore 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 Cesno, Andrey Wirgues, Thiago Pinto, Eloise Arruda, Rafaela 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 Pulejencz, Robin Willihosfer, Nikita Ermolaev, Bernhard Cherouny, Theresa-Marie Dachs, René Rettl, Christina Binder-Rodriguez, Luciana Camuz-Ligios, Bernhard Greghammer, 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 Previnia, David Debeaumont, Antoine Cuveller, 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 Harlop, Arun Nair, Stephen Clark, Ioannis Vogiatzis

PA4982 Predictors of success of pulmonary rehabilitation
Tomaz Haftner (Kranj, Slovenia), Anja Grošelj, Mitja Košnik, Julij Šelb, Anja Simončič, 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

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 Alkhathlan (Leicester, United Kingdom), Munynah Alhotye, 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 İnal

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, Ilaria Milesi, Francesco Bianchi, Giulia Marenghi, Chris White, Andrew Whittamore

PA4989 Pulmonary rehabilitation in Systemic sclerosis.
Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Alberto Bagnuera, Andrea Romani, Silvia Faverzani, Chiara Mancini, Laura Bazlarini
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 Rabiontovich

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 Manifield, Amy Barradell, Zahira Ahmed, Andy Barton, Arun Kumar Sharma, Sally Singh

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

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

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

Role of nursing in the detection of allelic variants of the gene alpha-1-antitrypsin in patients with cystic fibrosis.

Rocio Reinoso Arja (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

SPLUNC1 in sputum of children with cystic fibrosis pulmonary exacerbations

Elad Ben-Meir (Shoham, Israel), Lucy Perrem, Felix Ratjen, Hartmut Grasemann

Physical activity, six-minute-walking test, and quality of life in people with cystic fibrosis

Eipis Hatzigiagrou (Panorama, Thessaloniki, Greece), John Kouslis, Elisavet-Anna Chrysochoou, Evangelia Kouidi, John Tsanakas

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

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

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

Microbiological status predicts lung function decline in cystic fibrosis

Elpis Hatzigiagrou (Panorama, Thessaloniki, Greece), Marina Kotzamani, Persefoni Talimtzi, Maria Tsolia, Elisavet-Anna Chrysochoou

Exploring the attitudes and knowledge of the caregivers of children with cystic fibrosis and primary ciliary dyskinesia regarding COVID-19 vaccination

Merve Selcuk (Istanbul, Turkey), Pinar Ergenekon, Cansu Yilmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Neval Metin Cakar, Ela Erdem Eralp, Yasinem Goldemir, Bulent Karadag

Airway colonisation with Aspergillus fumigatus and its impact on the CF microbiota

DeePatel (Leicester, United Kingdom), Paul Seear, Catherine Pashley, Erol Gaillard
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

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

Identifying Knowledge Gaps by Using Adapted CF R.I.S.E in a Low Resource Setting
Merve Selçuk (İstanbul, Turkey), Yasemin Gökdemir, Ela Erdem Eralp, Almala Pınar Ergenekon, Cansu Yılmaz Yeğit, Muruvvet Çenk Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Ganze Tastan, Damla Kocamaz, Özge Kenis Coskun, İlkür Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag

Transition Program as a Quality Improvement Project: Adaptation of the CF R.I.S.E. in a center with Limited Resources
Yasemin Gökdemir (İstanbul, Turkey), Merve Selçuk, Ela Erdem Eralp, Almala Pınar Ergenekon, Cansu Yılmaz Yeğit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Ganze Tastan, Damla Kocamaz, Özge Kenis Coskun, İlkür Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag

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

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

Evaluation of Alextımıa Level in Cystıc Fıbrosis Patients
Aslı İmran Yılmaz (konya, Turkey), FATİH ERCAN, Semih Erden, Çağrı Öztürk, Hanife Tuğçe Çağlar

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

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, Jinqin Zhu

Maternal dietary inflammatory potential and allergic and respiratory multimorbidity in children
Rosalie Delvert (Villejuif, France), Manel Ghozal, Marie-Aline Charles, Isabella Annesi-Maesano, Chantal Raherison-Semjen, Raphaëlle Varraso, Blandine De Lauzon-Guillain, Annabelle Bédard

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
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

Panayiotis Kouis (Nicosia, Cyprus), Marios Lemonaris, Elena Xenophonotos, Andrie G. Panayiotou, Panayiotis K. Yiallouros

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

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

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

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

Diagnosis in children with prolonged or recurrent cough
Maria Christina Mallet (Bern, Switzerland), Annina Elmiger, Taysiya Krisnova, Carmen De Jong, Barbara Kern, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Jakob Usemann, Eva S L Pedersen, Claudia E Kuehni

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

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

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

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 Malinovschi

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 Izram Az Zaharah Suhami, Ching Hai Lee, Ker Yang Chua, Udhaya Moorthy, Karuthan Chinna

Comorbidity of allergic diseases and type 1 diabetes – using genetically informative methods
Awad I. Smew (Stockholm, Sweden), Tong Gong, Ralf Kuja-Halkola, Lars Sävendahl, Paul Lichtenstein, Bronwyn K. Brew, Catarina Almqvist

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, Liad Ashkenazi-Hoffnung

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

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 Yaşlı (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?
Eveelim Gomes (São Paulo (SP), Brazil), Debora Anjos, Carolina Camargo, Etiene 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, Etiene 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 Katsakas, Nicholas Hart, Patrick Murphy, Leyla Osman

PA5039
Assessing personalised airway clearance techniques in Primary Ciliary Dyskinesia with 129Xe ventilation MRI
Lyne 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, Siobhan Mulrennan, Kylie Hill

PA5041
Feasibility and safety evaluation of a novel airway clearance system in patients with bronchiectasis
Moshe Ashkenazi (ramat gan, Israel), Nir Hel[er, 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-Ozcel, Ebru Calik-Kutukcu, Naciye Vardar-Yagli, Melda Saglam, Deniz Dogru, Ayfer Alikastifoglu, Nagehan Emiralioglu

PA5045
Exercise capacity, inflammation, hemodynamic and macrovascular function in children with CF in different genders
Senem Simsek (Ankara, Turkey), Ashihan 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, Joaquim 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 Alvelhão
Efficacy of respiratory physiotherapy in the management of infectious pleural effusion (IPE): a randomized clinical trial
Julia Tarrega Camarasa (Granollers, Spain), Inmaculada Castillo, Enric Barbenta

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

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 Lettl (Schönau a. Königssee, Germany), Tessa Schneeberger, Inga Jarosch, Rainer Gloeckl, Sandra Winterkamp, Andreas Rembert Koczulla

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

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, Khouloud Kchaou, Chaima Briki, Sirine Jamli, Saloua Ben Khamsa Jameleddine

Does diffusion ability of lungs return to normal after COVID-19?
Natalilia Habshydze (Dnipro, Ukraine), Mariia Krykhquina, Liudmyla Konopkina, Tetyana Pertseva, Larysa Botvinkova

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 Bhat

Increased impairment of cardiopulmonary exercise by bilateral diaphragm dysfunction as compared to unilateral diaphragm dysfunction.
Patrick Jak (Diemen, Netherlands), Bart Boerrigter

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

Determination of the anaerobic threshold
Esther de Geus (Den Haag, Netherlands), Mart Van Der Plas

Comparative retrospective data research from normalvalues of VO2max in CPET with patient data in Meander Medisch Centrum, The Netherlands.
Justine Van den Hengel (Leusden, Netherlands), Anne Van As - Janssen

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, Kristofer Cuthbert, Jill Macleod

The association of isolated small airways obstruction with cardiorespiratory fitness: A hospital-based study
Ben Knox-Brown (NEWMARKET, United Kingdom), Karl Sylvester, Andre Amaral

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

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

Ian Cliff (Stoke-on-Trent, United Kingdom), Helen Stone, Naveed Mustfa, Christopher Satur
Biologic or mechanic quality control for cardiopulmonary exercise testing (CPET).
Manon Broekhuijsen - Godding (Lanaken, Belgium), Sami Simons

Determinants of respiratory function during inpatient rehabilitation after spinal cord injury
David Berlowitz (Melbourne (VIC), Australia), Gabi Mueller, David Bobets, Burkhart Huber, Xavier Jordan, Karin Postma, Anja Raab, Martin Schubert, Martin Brinkhof

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 Gonzalez Islas, Arturo Orea Tejeda, Luz Jiménez Gallardo, Arturo Rodriguez Medina, Priscila Dibnora De La Concha Duarte, Juan Antonio Ramirez Maldonado, Guiedani Galván Bautista, Nadia Hernández López, Rocio Sánchez Santillán, Ilse Pérez García, Angélica Jiménez Valentin

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 Borderías Clau

Cardiopulmonary exercise testing (CPET) in post COVID-19 exercise intolerance evaluation
Joana Da Silva Cruz Gameiro Duarte (Oeiras, Portugal), Rita Enriquez, Susana Clemente, Silvia Rodrigues, Liliana Gomes, Jorge Rosa, Inês Claro, Filipa Todo Bom

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 Lehnne, Dina Von Werden

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)

Late Breaking Abstract - Drug-resistant tuberculosis: pilot whole genome sequencing of clinical isolates
Ulan Kozhamkulov (Astana, Kazakhstan), Asset Danyarov, Ainur Akhmetova, Saule Rakhimova, Zhannur Abilova, Ainur Akilzhanova

Renal amyloidosis in a patient with pulmonary tuberculosis
Sabarinath Ravichandar (Chennai, India)

Clinico-microbiological profile and treatment outcomes in patients with isoniazid monoresistant tuberculosis in South India
Venkata Prasanna M (puducherry, India), Muthuraj M, Vimal Raj R, Govindarajan S, Pajanivel R

The modifying effect of comorbidity on the detection and treatment outcomes of tuberculosis
Iryna Makoida (Ivano-Frankivsk, Ukraine), Mykola Ostrovs'kyj, Iryna Kositska, Olha Molodovets, Olha Melnik-Sheremet'ya, Oleksandr Varunkiv, Iryna Savelikhi, Alla Zuban, Nadiia Korzh, Uliana Shevchuk-Budz

Association of systemic inflammatory markers with anti-tuberculous drug-induced liver injury
Juan Qiu (Chengdu, China), Jianqing He

Clinical and prognostic characterisation of Mycobacterium avium infection - a retrospective analysis
Adriana Sofia Correia Dias (Braga, Portugal), Diogo Miguel Monteiro Canhoto, Ferreira António Jorge

Rasmussen Aneurysm: a rare fearful complication of pulmonary tuberculosis
mohamed karim darragi (Ariana, Tunisia), Sarra Maazaoui, Chirine Moussa, Amane Touil, Sonia Hbibe, Soumaya Ben Saad, Hajar Racil, Fatma Trutar, Sonia Maalej, Nawel Chauoe

Atypical presentations and challenges in the upper respiratory tract tuberculosis
kharrat rania (sfax, Tunisia), Kallel Souha, Hammamini Rim, Selem Noura, Bahloul Najla, Elleuch Ahmed Dhiaa, Chaabouni Mohamed Amine, Kamoun Amine, Charfeddine Illem

Clinical characteristics of different subspecies in patients with Mycobacterium intracellulare pulmonary disease
CHIE MORITA (Tokyo, Japan), Eriko Morino, Yusaku Kusaba, Ayako Shiozawa, Jin Takasaki, Masayuki Hozho, Haruhiro Sugiyama, Mitsunori Yoshida, Hanako Fukano, Yoshihiko Hoshino
**Spinal tuberculosis treated at an East London Hospital**
Akhilesh Sharma (Chelmsford, United Kingdom), Erik Skyllberg, Rebekah Young, Sinead Foley, Mollie Ward, Laura Gill, Simon Tiberi, Veronica White, Heiinke Kunst

**Endobronchial tuberculosis: a rare presentation**
Salma Msika (Casablanca, Morocco), Wiam El Khattabi, Meriem Zadi, Hajar Arfaoui, Hasna Jabri, Hicham Afif

**The effect of Covid-19 pandemic on childhood tuberculosis: A Retrospective sectional study**
Gülay Bas Bilgin (İstanbul, Turkey), Özge Ulgen, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi, Yasemin Mocan Çağlar, Bügüm Yörük, Saniye Girit

**Tuberculous meningoencephalitis complicate with mielitis**
Olga Adriana Caliman-Sturdza (Suceava, Romania)

**Peripheral blood monocyte and pleural effusion aetiology**
Maged Hassan (Alexandria, Egypt), ABDALLAH DABBAS, Mohammad Yosri, Alaa Amin, Nada Abdelsalam, Aya Ayman, Marina Ibrahim, Nada Nawar

**Etiology of exudative pleural effusion among adults: differentiating between tuberculosis and other causes, a multicenter prospective cohort study**
Mansoor Hameed (Doha, Qatar), Moussa Hussein, Merlin Thomas, Mustafa Al-Tikrity, Tasleem Raza, Esraa Alkhateeb, Aisha Aladab, Wanis Ibrahim, Prem Chandra

**Lung function impairment after completing tuberculosis therapy - preliminary findings of StatinTB/ExtendTB**
Sandra Mukasa (Cape Town, South Africa), Karen Wolmarans, Antoneta Mashinyira, Patrick Katoto, Fareda Jakoet-Bassier, Christian Buess, Reto Guler, Gunar Gunther, Friedrich Thienemann

**Predictive factors for unfavourable outcome of Tubercular(T.B) cervical lymphadenitis**
Darshan Kumar Bajaj (Lucknow, 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

**Utility of CT scan in pulmonary tuberculosis disease**
mohamed karim darragi (Ariana, Tunisia), Sarra Maazaoui, Yassine Foudhaili, Olfa Ben Moussa, Amany Touil, Sonia Habibech, Hajer Racil, Nawel Chaouch

**Ocular Tuberculosis: a challenging condition**
Joana Marques Diogo (Sesimbra, Portugal), Carlos Figueiredo, Helena Pires, Júlia Silva, Carlos Montevedere, Dalila Ferreira, Joana Carvalho, Susana Carreira, Teresa Mourato, Luís Coelho

**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

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**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)

**Immunosuppressed patients with severe COVID-19 pneumonia: clinical characteristics and outcomes**
Eduardo Forin (Barcelona, Spain), Flavía Galli, Francisco Jose Molina Saldarriaga, Anna Motos, Sofia Misuraca, Enric Barbeta, Joan Canseco, Laia Fernandez-Barat, Andrea Catalina Palomeque, Jesus Francisco Bermejo Martín, Ferran Barbé Illa, Antoni Torres

**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 Yedess, Sawsen Bourommena, Becem Trabelsi, Chawki Mrazguia, Mechaal Ben Ali

**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
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<td>PA5096</td>
<td>Clinical profile of COVID patients and predictors of long COVID - South Asian data</td>
<td>Rekha Parameswari (Kottayam (Kerala), India), Kummannoor Parameswaran Venugopal, Sukumaran Parackal, Athulya Kumar, Beena Thomas</td>
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<td>PA5097</td>
<td>SMOKING AND COVID-19: A COMPLEX INTERACTION</td>
<td>Mariem Chaabane (Tunis, Tunisia), Hajer Racil, Mariem Friha, Sarra Maazaoui, Sonia Habibechn, Ameny Touil, Nawel Chaouch</td>
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<td>PA5099</td>
<td>Residence density and outcome of COVID infection among bronchiectasis patients</td>
<td>Christian Niels Meyer (Roskilde, Denmark), Alexander S Jordan, Pradeesh Sivapanal, Christian Niels Meyer, Michal Shteinberg, Jens Ulrik S Jensen</td>
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<td>PA5100</td>
<td>The Relation between ACE Gene Polymorphism and the Severity of COVID-19 Infection</td>
<td>Ahmed Abdallah Bayoumy (Ismailia, Egypt), Yara El-Sayed Marei, Hassnaa Mohamed Abulazm Nassar, Bassam Mansour, Asmaa Bakeir Hamady</td>
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<td>PA5101</td>
<td>Characteristics of frailty in perimenopausal women with Long COVID-19 syndrome</td>
<td>Laura Lopez Lopez (Granada, Spain), Alba Navas Otero, Araceli Ortiz Rubio, Andrés Calvache Mateo, Irene Cabrera, Martos, Irene Torres Sánchez, Marie Carmen Valenza</td>
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<td>PA5102</td>
<td>Comparison of patients hospitalized in the periods of Delta and Omicron variants dominance in Greece</td>
<td>Vagia Karageorgou (Athens, Greece), Andriana I Papaioanou, Maria Kallieri, Myrto Blizou, Stefanos Lampadakis, Maria Sfika, Antonios Krousos, Vasileios Papavasileiou, Franceska Strakosha, Kalliopi Theoni Vandorou, Pavlos Siozos, Marina Moustaka Christodoulou, Georgia Kontonasou, Vasiliki Apollonatou, Elvira Markella Antonogiammaki, Christos Kyriakopoulos, Christina Aggelopoulou, Christos Chronis, Konstantinos Kostikas, Evangelia Koukaki, Zoi Sotiroupoulou, Athanasia Athanasopoulou, Petros Bakakos, Pinelopi Sxini, Emmanuel Alevrakis, Sotirios Pouapos, Evangelia Chondrou, Dionissis Tsoukalas, Alexia Chronaiou, George Tsoukalas, Sofia Koukidou, Georgios Hillas, Katerina Dimakou, Konstantinos Roukas, Ifigenia Nakou, Diamantis Chloros, Evangelia Fouka, Spyros A Papiris, Stelios Loukides</td>
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<td>PA5103</td>
<td>Influence of comorbid pathology on the formation of the post-Covid syndrome</td>
<td>Lilía Todoriko (Chernivtsi, Ukraine), Olena Pidverbetska, Oleh Pidverbetskyi</td>
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<td>PA5104</td>
<td>COVID-19 in Indian healthcare workers- a case series</td>
<td>Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Sekar Rajasekar, Deepa Shankar, Barney Isaac, Balamugesh Thangakumam</td>
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<td>PA5105</td>
<td>Shunt fraction and radiological involvement in Covid-19 related Acute Respiratory Failure</td>
<td>Luca Novelli (Bergamo, Italy), Luca Malandrino, Maurizio Balbi, Federico Raimondi, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberto Trappaso, Roberta Biza, Gianmariano Marchesi, Fabiano Di Marco</td>
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<td>PA5106</td>
<td>Body mass index and COVID-19 disease; patient characteristics, complications and outcome.</td>
<td>Ahmed Kabil (Cairo, Egypt), Moazz Atef, Hossam Abdelmoez</td>
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<td>PA5107</td>
<td>Impact of COVID-19 on patients with PIZZ alpha1-antitrypsin deficiency: the IMCA1 study revisited.</td>
<td>David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Chorostowska-Wynimko, AngeloCorsico, Cristina Esquinas, Gerard McElvaney, Annelot Sark, Maria Sucena, Hanan Tanash, Alice Turner, Marc Miravitlles</td>
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<td>PA5108</td>
<td>Impact age-adjusted Charlson comorbidity index on hospital and one year mortality in chilean patients with COVID-19</td>
<td>Felipe Cayupi (Santiago, Chile), Miljenko Lolas, Francisco Arancibia, Maria José Corrales, Juan Pablo Cuevas, Daniel Ramos, Constanza Tamblay, Karina Ramirez, Janiele Venegas, Jorge Cheg, Roberto Gonzalez, Elias Chahuan, Carolina Camp</td>
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<td>PA5109</td>
<td>Clinical impact of COVID-19 in patients with chronic obstructive pulmonary disease</td>
<td>Carlos Manzano Serra (Lleida, Spain), Ivan D Benitez, Anna Moncusí-Moirx, Clara Gort-Paniello, Sally Santistevé, Jordi De Batlle, Jessica González, Ferran Barbé</td>
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<td>PA5112</td>
<td>DIABETES AND SARS COV-2 INFECTION: PREVALENCE AND IMPACT ON SEVERITY</td>
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<td>Slim Ghedira (TUNIS, Tunisia), Sarra Maazaoui, Amany Touil, Sonia Habibech, Hajer Racil, Nawel Chaouch</td>
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**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)

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<th>PA5113</th>
<th>Impact of pneumococcal vaccination in treating elderly patients with hospitalized community-acquired pneumonia</th>
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<td>Moonjin Kim (Seoul, Republic of Korea), Seohyun Kim, Tai Joon An, Jeong Uk Lim, Chan Kwon Park, Hyoung Kyu Yoon</td>
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<th>PA5114</th>
<th>Rapid PCR (BIOFIRE)- A paradigm shift in management of pneumonia</th>
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<td>Beauty Biswas (West Bengal, India), Amrita Bhattacharyya, Raja Dhar, Somnath Bhattacharya, Saikat Pal, Deep Narayan Mukherjee</td>
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<th>PA5115</th>
<th>Early appropriate antimicrobial treatment guided by BioFire FilmArray may attenuate systemic inflammatory response in VA-LTRI patients</th>
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<td>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</td>
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<th>PA5116</th>
<th>Poor prognostic factors in acute community-acquired pneumonia</th>
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<td>Houda Rous (Ariana, Tunisia), Alaeddine Radhouani, Chirine Moussa, Mehdi Abdenadher, Faten Mhiri, Amel Khattab, İbühiel Khouaja, Ines Zendah, Sonia Maalej</td>
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<th>PA5117</th>
<th>Association between HRCT image findings of aspiration pneumonia and elevated bronchoalveolar lavage amylase and pepsin</th>
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<td>Tomoko Suzuki (Iruma-gun, Japan), Miwako Saitou, Yuka Utano, Kenichi Utano, Katsunao Niitsuma</td>
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<th>PA5118</th>
<th>Value of soluble urokinase plasminogen activator receptor (SUPAR) for predicting severity of community-acquired pneumonia (CAP)</th>
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<td>Lisa Hessels (Alkmaar, Netherlands), Ruud Duijkers, Marianne Schoorl, Lotte Terpstra, Willemien Thijs, Wim Boersma</td>
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<th>PA5119</th>
<th>Development of a new prognostic score to predict pneumonia outcomes using artificial intelligence-based chest radiograph results</th>
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<td>Eun Hye Lee (Seoul, Republic of Korea), Ji Soo Choi, Hyun Joo Shin, Kyunghwa Han, Eun Kyung Kim</td>
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<th>PA5120</th>
<th>Exposure to antimicrobials and microbiological yields from bronchoscopy in immunocompromised patients, a single-centre two-year experience.</th>
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<td></td>
<td>Albert Teng (Singapore, Singapore), Deshawn Tan, Kundan Reddy Saripalli, Timothy Toh, Youxin Puan, Brian Chua, Isaac Fong, Yi Hern Tan</td>
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<th>PA5121</th>
<th>COMMUNITY-ACQUIRED PNEUMONIA: RISK AND PROGNOSIS</th>
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<td>Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko</td>
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<th>PA5122</th>
<th>Clinical utility of routine bronchoscopic secretion sampling for microbiological and multiplex PCR during bronchoscopy</th>
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<td>Christopher Milacek (Wien, 05. Bezirk, Margareten, Austria), Marco Idzko, Daniela Gompellmann</td>
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<th>PA5123</th>
<th>Results of microbiome analyses on bronchoalveolar lavage (BAL) sample</th>
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<td>Katarina Pontoppidan (Southampton, United Kingdom), Christian Niels Meyer, Xiaohui C Nielsen, Jens J Christensen, Henrik Vedel Nielsen, Kurt Fuursted, Christian S Jensen</td>
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<th>PA5124</th>
<th>BACTEREMIA PREDICTION IN PNEUMOCOCCAL PNEUMONIA: A COMPARATIVE STUDY OF 2 SCORES</th>
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<th>PA5125</th>
<th>Impact of absence of an early circulating neutrophil count expansion on outcome of patients with community-acquired pneumococcal pneumonia</th>
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<td>Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Silvia Perez-Fernandez, Sonia Castro Quintas, Anaia Urrutia Gajate, Edurne Echeverria Guerrero, Beatriz Gomez Crespo, Ainhoa Gomez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge</td>
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Microbiology, appropriateness of empiric antibiotics and clinical outcome of hospital-acquired pneumonia in the era of multidrug-resistant Acinetobacter baumannii
Myung Goo Lee (Chuncheon, Republic of Korea)

Comorbidity-based distribution of pneumococcal serotypes in Greek adults hospitalized with community-acquired pneumonia (CAP)
Adamadia Liapikou (Athens, Greece), Vasiliki Kossyvaki, John Skiadas, Eleftherios Markakis, Damianos Menegas, Cristina Méndez, Claudia Schwarz, Maria Lahuerta, Elizabeth Begier, Bradford D. Gessner, Haralampsos Milionis, Vasilios Tsimihodimos, Konstantinos Kostikas, Athanasios Konstantinidis, Gerasimos Baxevanos, Charalampos Triantafyllidis, Theodora Argiriadou, Chrysavgí Terrovitou, Daníel Daniílidis, Paraskevi Katsaounou, Michael Tounibis, T. Egnatia Study Group

Association of C-reactive protein with glycaemia and insulin resistance in patients with community-acquired pneumonia – a prospective, observational cohort study
Arnold Dungu (København, Denmark), Camilla Koch Ryrsø, Maria Hein Helgelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Christian Ritz, Daniel Faahrøl-Jepsen, Birgitte Lindegaard

Phenotypes of Hospitalized Patients with Pneumonia
Daniel Knox (Murray, United States), Jason Carr, Simon Brewer, Samuel Brown, Nathan Dean, Ithan Peltan

Altered sphingolipid metabolism in community acquired pneumonia
Kurt Gerhard Stollberg (Jena, Germany), Ha-Yeun Chung, Dirk K. Wissenbach, Marc-Thilo Figge, Frank T. Peters, Martin Wittenrath, Markus H. Gräler, Mathias W. Pletz, Ralf Alexander Claus, . Capnetz-Study Group

CLINICAL MANAGEMENT OF PNEUMONIA VERSUS RECOMMENDATIONS OF THE SEPAR GUIDELINES.
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 Loso

The clinical significance of anaerobic coverage in the antibiotic treatment of aspiration pneumonia: a systematic review and meta-analysis
Yuki Yoshimatsu (London, United Kingdom), Masaharu Aga, Kosaku Komiya, Shusaku Haranaga, Yuka Numata, Makoto Miki, Futoshi Higa, Kazuyoshi Senda, Shinji Teramoto

Assessing the ability of MRI in lung cancer mediastinal staging: rationale and preliminary results
Francesco Bertuccio (Pavia, Italy), Paolo Cossetta Reposi, Alice Lionetti, Laura Saracino, Stefano Tomaselli, Chandra Bortototto, Angelo Guido Corsico, Giulia Maria Stella

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

Rapid on-site evaluation (ROSE) by a trained pulmonologist, is it possible?
Juan Francisco De Mesa Alvarez (Madrid, Spain), Carlos Didier Vicente, Blanca De Vega Sanchez, Álvaro Pérez Rodriguez, Soraya Fernandez Gay, Esperanza Guzman Ansado, Norman Andres Villamagua Arias

Sarcoid-like granulomatous inflammation in the setting of underlying malignancy: endobronchial ultrasound registry-based report and a call for caution
Grigor Salai (Zagreb, Croatia), Robert Gecevic, Tajana Stoos Veic, Divo Ljubicic

Feasibility using bronchoscopic specimens for next-generation sequencing in resectable non-small lung cancer
Kaito Yano (Tokyo, Japan), Yuji Matsumoto, Hideaki Furuse, Keigo Uchimura, Tatsuya Imabayashi, Takaaki Tsuchida

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 Micheletto

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 Milka, 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

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 Handi (Tunis, Tunisia), Hanene Smadhi, Sabrine Elfidha, Hadhemi Rejeb, Hela Kamoun, Bochar Karaborni, Chaïma Djennayah, Ines Akrount, Dorra Greb, Hajer Benadelghaffar, Hela Hassen, Leila Feki, 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), Graine Murphy, Luke Forde, Katherine O’Reilly

PA5154  Physical activity measurement with questionnaire in idiopathic pulmonary fibrosis
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 Ekemberg (Uppsala, Sweden), Christer Jansson, Andrei Malinovschi, 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 Verbeke, Johny Verschakelen, Birgit Weynand, Jonas Yserbyt, Patrick Verschueren, 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 Carriero, Francesca Bertolini, Elisa Arrigo, Elisa Riccardi, Flavio Cosa, 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, Ming Ching, 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-β1-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

PA5167 Survival in interstitial lung diseases – 11 years observation of 2497 patients.
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros

PA5168 Idiopathic pulmonary fibrosis mortality among ever-employed persons aged ≥15 years, by industry and occupation—United States, 2021
Jacek Mazurek (Morgantown, United States), Girija Syamlal, David Weissman

PA5169 Surgical pulmonary biopsy inILD: analysis of complications and survival
Sonia Pascual García (Leganés, Spain), Cristina Matesanz López, Beatriz De Olazí Navarro, Jose Antonio Aramburu González, Eva Aguilar Rivilla, Beatriz Raboso Moreno, Adriana Rodriguez Perojo, Araceli Abad Fernández, Maria Teresa Rio Ramírez

PA5170 Multidisciplinary management of interstitial lung disease in NHS Scotland
Emily Turner (Glasgow, United Kingdom), Linda Sparks, Phil Korsah, Tom Fardon

PA5171 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

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
Long-term effects of pulmonary endarterectomy on cardiopulmonary hemodynamics and exercise capacity in chronic thromboembolic pulmonary hypertension: London and Amsterdam experience

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 Lizette Arita Guevara, Ricardo alberto Reyes jimenez, Anna Herranz blasco, Mireia Admetiño papiol, Anna Rodo Pun, Franca Giudice sevilla, Flavio Zuccarino, Judith Villar Garcia, Lluis Molina Ferragut, Eva Balcels Vilarnau, Diego Rodriguez Chiara

Long-term safety and survival time under subcutaneous treprostinil treatment in patients with severe chronic thromboembolic pulmonary hypertension (CTEPH)
Pavel Jansa (Jinny, Czech Republic), Roela Sadushi-Koli, Grzegorz Kopec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Steringer-Mascherbauer, Barbara Salobir, Walter Klepetko, Jaroslav Lindner, Irene M. Lang

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

Left ventricular diastolic dysfunction attenuates outcomes in CTEPH
Katherine Buncnark (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 Screaton, Karen Sheares, Dolores Taboada, Steven Tsui, John Wort, Joanna Pepke-Zaba, Mark Toshner

Calibrated automated thrombography demonstrates a hypoocoagulable profile in subjects with pulmonary arterial hypertension
Sarah Cullivan (Dublin, Ireland), Ciara Mccormack, Brian Mccullagh, Barry Kevane, Patricia Maguire, Fionnuala Niainle, Sean Gaine

Nocturnal desaturation in patients with chronic thromboembolic pulmonary hypertension.
Yu Taniguchi (Kobe, Japan), Hiroyuki Fuji, Kenichi Yanaka, Noriaki Emoto, Kenichi Hirota

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 Sibton, Elie Fadel, Marc Humbert, Xavier Jais

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 Romero, Luis Jara-Palomares, Teresa Elías Hernández, Ana García Alvarez, Remedios Otero Candelera

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

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. Matthaiou, Konstantinos Pagonidis, Eirini Manousaki, Michail Fragkoulakis, Irini Lambiri, Ioanna Mitrouskas, 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 Vlieger, 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 Ma, Aida Llucià-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 Bunc Clark (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 Sreteon, Karen Shaare, Dolores Taboada, Steven Tsui, John Wort, Jean 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 (Casanovala Lonati (PV), Italy), Stefania Ottaviani, Alice Maria Balderacchi, Alessandra Corino, Sara Magni, Davide Piloni, Angelo Guido Corsico, Ilaria Ferrarotti

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, Álvar Agusti, Rosa Faner

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)

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
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 Stelia, Maria Cristina Monti, Angelo Guido Corsico, Ilaria Ferrarotti

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

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

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

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 Bjerner, Ellen Tuufvesson

Profile of myostatin regulation and downstream mechanisms in the sarcopenia of severe COPD patients

Adriana Núñez Robainas (Barcelona, Spain), Maria Guitart, Antonio Sancho Muñoz, Esther Barreiro

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

Identification of myostatin regulation and downstream mechanisms in the sarcopenia of severe COPD patients

Adriana Núñez Robainas (Barcelona, Spain), Maria Guitart, Antonio Sancho Muñoz, Esther Barreiro

Identification of negative regulators of Wnt/β-catenin signaling in lung epithelial cells through whole genome CRISPR screen

Markus Tamnia (Mölnndal, Sweden), Anna Dickson, Niamh Mullolly, Adam Corrigan, Alessia Serrano, Yaxin Xue, Chang Kim, Ewa Kolosionek, Stefan Vollmer, Bairu Zhang, Leire Escudero-Ibarz, Valentina Quarrantotti, Gabriella Leung, Daniela Corncchia, Sandeep Botla, Linn Kulberg, Louise Stjernborg, Olivia Pembridge, Mahya Dezfoli, Naomi Lyons, Joseph Collin, Leif Wigge, Anna Forslöw, Mirko Messi, Roxane Paulin, Cari Wiggins, Bilada Bilican, Henric Olsson, Davide Gianni

Early COPD and Hedgehog interacting protein (HHIP) polymorphisms

Mohamed Zakaria LAHMAR (Montpellier, France), Engi Ahmed, Isabelle Vachier, Aurelie Fort, Nicolas Molinari, Anne Bergougnoix, Arnaud Bourdin

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 Der Berge, Alen Faiz, Brian Oliver

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 Maria Hernandez, Jose Luis Lopez-Campos, Ana Bustamante, Francisco Javier Callejas, Silvia Castillo, Marc Miravitlles, Maria Torres Durán, Gema Gomez-Mariano

Differential DNA Methylation Associated with COPD and COPD Severity

Jos van Nijnatten (Groningen, Netherlands), Alen Faiz, Cornelis Joseph Vermeulen, Wim Timens, Maaike De Vries, Rosa Fager, Corry-Anke Brandsma, Maarten Van Der Berge

Polymorphism endothelin-1 gene (Lys198Asn) in airway remodeling and increased endothelial dysfunction in COPD

Elmorahon Abduganieva (Tashkent, Uzbekistan)

Identification of negative regulators of Wnt/β-catenin signaling in lung epithelial cells through whole genome CRISPR screen

Markus Tamnia (Mölnndal, Sweden), Anna Dickson, Niamh Mullolly, Adam Corrigan, Alessia Serrano, Yaxin Xue, Chang Kim, Ewa Kolosionek, Stefan Vollmer, Bairu Zhang, Leire Escudero-Ibarz, Valentina Quarrantotti, Gabriella Leung, Daniela Corncchia, Sandeep Botla, Linn Kulberg, Louise Stjernborg, Olivia Pembridge, Mahya Dezfoli, Naomi Lyons, Joseph Collin, Leif Wigge, Anna Forslöw, Mirko Messi, Roxane Paulin, Cari Wiggins, Bilada Bilican, Henric Olsson, Davide Gianni

Early COPD and Hedgehog interacting protein (HHIP) polymorphisms

Mohamed Zakaria LAHMAR (Montpellier, France), Engi Ahmed, Isabelle Vachier, Aurelie Fort, Nicolas Molinari, Anne Bergougnoix, Arnaud Bourdin

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Polymorphism endothelin-1 gene (Lys198Asn) in airway remodeling and increased endothelial dysfunction in COPD

Elmorahon Abduganieva (Tashkent, Uzbekistan)
**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), Mohammed Munavvar (Preston (Lancashire), United Kingdom)

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PA5212

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

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PA5213

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

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PA5214

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, Shotoro Ito, Kosuke Tsuji, Hirofumi Takahashi, Tetsuaki Shoji, Toshiaki Shichimohoe, Satoshi Kono

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PA5215

Finding effective combination 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

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PA5216

The beginnings of Radial Probe Endobronchial Ultrasound without a Guide-Sheath and fluoroscopy.

Yanira Chuquimia Mendoza (Leon, Spain), Javier Juan Garcia, Carmen Lopez Garay, Elenna Martin Galliego, Cristina Menendez Sanchez, Pablo Franco Suarez, Yolanda Ramos Alonso, Almudena Regidor Delgado, Patricia Gigante Alfageme, Milagros Blanco Fernandez, Lorena Rodriguez Casado, Luis Carazo Fernandez

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PA5217

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

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PA5218

Electromagnetic navigation bronchoscopy for peripheral pulmonary lesions: An observational study. First experience.

Ana Reyes Pardeusso Otero (Barcelona, Spain), Inés Podzamczer Valls, Albert Rafecas Codern, Ana Parera Ruiz, Marta Navarro Colom, Virginia Pajares Ruiz, Alfons Torrego Fernandez

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PA5219

The role of Rapid On-Site Evaluation (ROSE) in diagnostic EBUS-TBNA procedures for stage IV lung cancer.

Marwah Almadhi (Manchester, United Kingdom), Haval Balata, Matthew Evison, Azita Rajai, Haider Al-Najjar

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PA5220

Nebulized Dexmedetomidine Prior to Flexible Bronchoscopy in Reducing Procedural Cough Episodes: A Randomized, Clinical Trial.

Lokesh Kumar Lalwani (Alwar, India), Pawan Kumar Singh, Dhruba Chaudhry

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PA5221

A randomised controlled trial of narrow-band imaging vs. white light bronchoscopy-guided endobronchial biopsy in suspected sarcoidosis (NABS)

Sahajal Dhooria (Chandigarh, India), Kritarth Rathi, Ritesh Agarwal, Nalini Gupta, Amanjit Bal, Ashutosh Nath Aggarwal

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PA5222

Pre-bronchoscopy screening for obstructive sleep apnea. The role of non-invasive mechanical ventilation

Katerina Bakiri (Cholargos, Attiki, Greece), Nektarios Anagnostopoulos, Kyriaki Cholidou, Evangelia Koukaki, Emmanuel Theodorakis, Sophia Schiza, Antonia Koutsoukou, Grigorios Stratakos

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PA5223

A retrospective analysis assessing prevalence of microbes in patients undergoing endobronchial valve (EBV) insertion for chronic obstructive pulmonary disease (COPD)

Francesca Conway (London, United Kingdom), Sara Buttery, Justin Garner, Marta Lenczewska, James Tonkin, Christopher Orton, Nicholas Hopkinson, Samuel Kemp, Pallav Shah

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PA5224

Physiological evidence of airway smooth muscle ablation by bronchial thermoplasty

Ynuk Bossé (Québec (QC), Canada), Cyndi Henry, Sabrina Biardel, Magali Boucher, Krystelle Godbout, Jamila Chakir, Andréeane Côté, Michel Laviolette
Interobserver agreement in the diagnosis of lower airway malacia by dynamic flexible bronchoscopy in children
Fazılcan Zirek (Ankara, Turkey), Gizem Özcan, Merve Nur Yekin, Beste Özezen, Birce Sunnan, Selçahattin Bayav, Muğdades Aştrütci, Batuhan Bakırarar, Ebru Yalıkın, Nazan Çobanoğlu

High flow oxygen vs standard management during bronchoscopy in COPD patients – a randomised controlled trial
Andrei Darie (Basel, Switzerland), Leticia Grize, Kathleen Jahn, Anna Salina, Jonathan Röcken, Matthias Herrmann, Maria Pascarella, Vivian Suarez, Werner Strobel, Michael Tammi, Daiana Stolz

Development of New Lateral Forceps for Bronchoscopic Guide-sheath
Naofumi Shinagawa (Sapporo, Japan), Yuta Takashima, Koichiro Ito, Takayuki Tsukagoshi, Ryosuke Ito, Takeshi Suga, Hidenori Yoshida, Ryuji Nagamatsu, Tetsuhide Takeyama, Toshiaki Shichinohe, Satoshi Konno

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
Atsushi Kitamura (Tokyo, Japan), Yutaka Tomishima, Ryosuke Imai, Naoki Nishimura, Kohei Okafuji, Shosei Ro, Clara So, Tomoaki Nakamura, Torahiko Jinta

Bronchoscopic transparenchymal MP290F nodule access (BTPMNA): first in human case series of a novel procedure for sampling solitary pulmonary nodules
Hai Feng Ou Yang

Ultra-thin bronchoscopy with cone beam CT for small peripheral pulmonary lesions
Fumihiro Asano (Gifu, Japan), Tomoya Kato, Akifumi Tsuzuki, Atsunori Masuda, Anri Murakami, Akimasa Tsuchida, Yasutomo Baba, Yutaroh Kuzunishi, Mayuka Miyoshi, Yuya Muto, Yui Sasaki, Rina Ota, Genta Otani

Ultra-thin cryoprobe: diagnostic and safety profile in peripheral pulmonary lesions
Sameer Arbat (Nagpur (Maharashtra), India), Bharat Agrawal

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

Age related changes of the lung extracellular matrix stiffness and stem cell viability
Isaac Almendros (Barcelona, Spain), Maria Narciso, Anna Uldemolins, Alicia Jurado, Daniel Navajas, Ramon Farré, Nuria Gavara

Lung Extracellular Matrix Hydrogels-Derived Vesicles Contribute to Epithelial Lung Repair
Isaac Almendros (Barcelona, Spain), Anna Uldemolins, Alicia Jurado, Carolina Herranz-Diez, Nuria Gavara, Jorge Otero, Ramon Farré

ARDS disease-relevant cytokines alter human mesenchymal stromal cell (MSC) function
Sara Rolandsson Enes (Lund, Sweden)

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 McCarth, Declan Byrnes, Senthil Alagesan, Juan Fandiño, Abigail Warren, Daniel O’Toole, John Laffey

Lipofibroblast derived-extracellular vesicles attenuate cigarette smoke-induced lung injury
Shota Fujimoto (Tokyo, Japan), Yu Fujita, Naoki Watanabe, Sachio Matsumbayashi, Hiromichi Haru, Jun Araya, Kazuyoshi Kuwano

Benefits of bronchial epithelial repair by iPSC in COPD
Marion Nadaud (Montpellier, France), Carine Bourdais, Aurélie Fort-Petit, John De Vos, Kheira Hiche, Isabelle Vachier, Engi Ahmed, Arnaud Bourdin
Adipose mesenchymal stem cells from COPD patients are capable of restoring elastase-induced emphysema in a murine experimental model

The sodium-coupled neutral amino acid transporter SNAT2 regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS

Dynamic doublecortin-like kinase 1 (DCLK1) expression on alveolar epithelial type II cells (AT2) in acute respiratory distress syndrome (ARDS) mouse model

Persistence of lung dysfunction in post-acute COVID-19: a microRNA approach

PLasma NET markers kinetics in COVID-19 patients receiving immunomodulatory treatments: a cohort study

Lung lipid profile upon COVID-19-related Acute Respiratory Distress Syndrome

Late Breaking Abstract - Macrophage metabolic reprogramming mediated by carnitine palmitoyltransferase 1A in acute lung injury in an IL10-dependent manner

A blood-based microRNA signature for the early prediction of the respiratory sequelae in critical COVID-19

Serum collagen biomarkers are related to fatal outcome in patients with severe COVID-19 in a Phase II clinical trial

Lung ECM composition, its influence factors and transcriptomics in the lungs of severe COVID-19

Long-term follow-up of neutrophil activation after severe-to-critical SARS-CoV-2 infection: a longitudinal study

Histopathology of the lungs in the acute and post-acute period of severe COVID-19

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), Athanasia Pataka (Thessaloniki, Greece)

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 Seesequaxis, Marie Neubuur, Warren Seesequaxis, Delano Mike, Kathleen McMullin, Malcolm King, Sylvia Abonyi, Vivian R. Rensd, Donna C. Rennie, Shelley Kirbychuk, Niels Koehncke, Robert Skonpro, 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, Sabrine Fidha, Rahma Gargouri, Sameh Msaaed, 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 Raouzaiou, 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 Wittwer, Robert Adams, Sarah Appleton, Amy Reynolds, Mirjam Ljunggren, Nathaniel Marshall

PA5260
Obstructive Sleep Apnea Syndrome & Glaucoma
Tarek Djenni (Batna, Algeria), Ferayl Chaouki, Mohamed Fateh Roughi

PA5261
Sick cell disease phenotypes and obstructive sleep apnea; are they related?
Suhail Alsalch (Riyadh, Saudi Arabia), Norah Alshehri, Sara Alsiddqi, Mohmmed Rayis, Safa Eltahir, Mohammed Alzaid, Wadhah Aloati

PA5262
Sleep related breathing disorders in Chiari malformation type 1 patients
Laura Cortezon (Bilbao, Spain), Edurne Echevarria, Teresa Bértos, Yolanda Rey, Maria Luz Zaldibar, Estefania Perez, Cristina Valverde, Cristina Mosquera, Beatriz Gonzáles, Amaia Urrutia, Sonia Castro, Valentín Cabriada

PA5263
Eat, breathe, sleep with Osteogenesis Imperfecta
Antonella LoMauro (Milano (MI), Italy), Vittorio Landoni, Paolo Fraschini, Franco Molteni, Andrea Aliverti, Simona Bertoli, Ramona De Amicis

PA5264
Simplified questionnaire for detecting patients with severe OSA
Cuizhen Huang (Guangzhou China, China), Yuan Feng, Lu Wang, Xiuxuan Xiang, Joerg Steier, Yuanming Luo

PA5265
Obstructive Sleep Apnea Hypopnea Syndrome & Glaucoma
Tarek Djenni (Batna, Algeria), Ferayl Chaouki, Mohamed Fateh Roughi

PA5266
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

PA5267
Comparison of Objective and Subjective Sleep Assessment in a Post-Covid Population as Assessed by WatchPAT.
Christina D. Campbell (Dublin 6, Ireland), Imran Sulaiman

PA5268
Kleine–Levin and post covid 19 syndromes, a possible relationship?
Analúcia Maranhão (Rio De Janeiro (RJ), Brazil), Cinthya Saad

PA5269
Risk factors for OSA in a population of Italian telecommunication workers
Giuseppe Verlato (Verona (VR), Italy), Giuseppe Insalaco, Pierpaolo Marchetti, Roberta Vesentini, Luciano Romeo

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
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

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, María Carmona-Iragui, Isabel Barroeta Espar, Javier José Arranz Martínez, Bessy Benejam Paul, Alberto Lleó Bisa, Juan Fortea Ormaechea, Sandra Giménez Badia

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

Therapeutic drug monitoring of inhaled drugs in hair of patients with asthma: a proof-of-concept study
Stanislas Grassin Delyle (Montigny le Bretonneux, France), Hélène Salvador, Stanislas Delyle, Camille Roquencourt, Françoise Lambinet, Emmanuelle Bardin, Philippe Devillier

Serum inhaled corticosteroid levels in patients with severe asthma.
Yik Lam Pang (Nottingham, United Kingdom), Mohammad Ali, Stephen J Fowler, Brian Keevil, Tricia Mckeeever, Ian Sayers, Dominick E Shaw

Effects of hormonal fluctuations during the menstrual cycle on asthma
Samia Aissani (Algiers, Algeria), Houria Haouichat, Ali Zitouni

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

Lung function response to inhaled glucocorticoids in smoking patients with adult-onset asthma
Karolina Lehtola (TAMPERE, Finland), Minna Tonnola, Ida Vähätalo, Leena Tuomisto, Onni Niemelä, Pinja Ilmarinen, Hannu Kankaanranta

Steroid weaning service evaluation for patients with severe eosinophilic asthma
Natalie Farmer (Leeds, United Kingdom), Rashad Salman, Ian Clifton, Jampa Choedon, Jane Slough

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

Our experience of Dulipilumab 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

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-Cosio Piqueras

Under-treated asthma in adults – a common problem
Caroline Stridsman (Luleå, Sweden), Jon R Konradsen, Stina Selberg, Maria Ödling, Apostolos Bossios

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

ORBE II study: Is rapid response to benralizumab associated with positive long term clinical outcomes?
Pilar Aisin Herrero (Barcelona, Spain), Eugenia Navarrete, Jose Luis Velasco, Álvaro Martínez, 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 Carpanzano

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 Carpanzano

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, Alyon 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 (Cone, Ferrara, Italy), Bradley Chipps, Frank Albers, Lynn Dunsmire, 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 Tam, 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

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 Diaz, Adolfo Domenech Del Rio, Casilda Oliveira 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 Bhaskaran, Premjithlal Bhaskaran

PA5302  Abnormalities of sputum rheological characteristics in patients with chronic cough and bronchial asthma  Kazuhiro Itó (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, Kenta Nakano, Hiroyoshi Watanabe, Masahiro Ohashi, Tomohide 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 Quatra, Andrea Portacci, Enrico Buonamico, Fabrizio Diaferia, Marco Antonio Patruno, Giovanni Elisiana Carplugano

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  Edurne Echevarria Guerrero (Barakaldo, Spain), Laura Cortezon Garces, Jone Solorzano Egurbide, Imanol Gonzalez Muñoz, Elena Garay Llorente, Patricia Sobradillo Echenarro, Maria Del Mar Mayor Álvarez, Borja Santos Zorrozua, Eva Tabernero 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)

Vaping: A new trend of consumption among young people.
Daniel Enrique Vega Lizarazo (Mafaga, Spain), Sara Sanchez Martin, Maria Mercedes Segura Romero, Eva Belén Cabrera César

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
Tobacco heaters, electronic cigarettes, hookahs, cannabis: really a safer alternative to cigarettes?

Iris Hohenadel (Sandhausen, Germany)

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

Perception of electronic cigarette among young adolescents

Soukaina Hallouli (CASABLANCA, Morocco), Wiam El Khattabi, Hajar Arfaoui, Hasna Jabri, Hicham Afif

MOTIVATION FOR USING HEAT-NOT-BURN TOBACCO DEVICES AND E-CIGARETTES IN UKRAINE

Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yurii Mostovoy

TOBACCO PRODUCT USE AMONG YOUTH IN UKRAINE

Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yurii Mostovoy

A qualitative study of Australian general practitioners on e-cigarettes as a smoking cessation aid

Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Chris Barton

Tobacco, alcohol and other drugs use among children in middle and high school

Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub Fehri

Teenage problem gambling in Ireland – shared risk factors with tobacco, e-cigarette and cannabis use

Salome Sunday (Blackpool, Ireland), Luke Clancy, Joan Hanafin

A comprehensive list of flavorings used in cigarettes

Efthimios Zervas (Patra, Greece), Manos Konstantinidis, Niki Matsouki, Chara Tsipa, Zoe Gareiou

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 Bouitbagha, Soufia Farhat, Houssame Ennaciri, Hanane Ikrou, Fatiha Bounoua, Khadija Ait Nasser, Houda Moubachir, Hind Serhane

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

Gender differences in smoking-attributable mortality (SAM) by region in Portugal

Sofia Belo Ravara (Covilhã, Portugal), Julia Rey-Brendariz, Esther López-Vizcaíno, Maria Isolina Santiago-Pérez, Alberto Ruano-Ravina, Cristina Candal-Pedreira, Leonor Lema-Varela, Nerea Mourino, Pedro Aguair, Mónica Pérez-Rios

Environmental Awareness and Behavior of Smokers and Non-Smokers

Efthimios Zervas (Patra, Greece), Zoe Gareiou, Niki Matsouki, Chara Tsipa, Manos Konstantinidis

The impact of tax increases on tobacco use among medical faculty students

Elif Dağlı (Istanbul, Turkey), Murat Tuğberk Bakar, Buğra Arslan, Melike Duymaz, Ibrahim Serhat Karakuş, Zilan Polat, Tanzer Gezer, Pınar Ay

Knowledge, attitude and practice of smoking vape among medical students in Karachi, Pakistan.

Eman Sheikh (Karachi, Pakistan), Ashok Kumar

Smoking cessation counselling: what do Tunisian medical trainees think?

Yossr Aloulou (Manouba, Tunisia), Hana Blibeche, Mohamed Aymen Jebali, Houda Snene, Sameh Belhaj, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Smoking Cessation Practices in a Level 3 Irish Hospital

Mary Mc Namee (Dublin 6, Ireland), Niamh Boyle, Caitlyn Paclibar, Eric Sheenan Purcell, Colm Quigley

Impact of Bronchial Asthma on COVID-19 Sequelae

Yu Nakatami (Kochi, Japan), Soko Numata, Kazuhumi Takamatsu, Akihito Yokoyama
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 Moschi, Laura Tavanti, Roberta Pancani, Guido Marchi, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabbielli, Alessandro Celi, Laura Carrozzo

Associations between socioeconomic parameters and outcomes related to hospitalization with COVID-19.
Søren Spering (Aarhus N, Denmark), Andreas Floe, Steffen Leth, Charlotte Hyldgaard, Tina Gissel, Ayfer Topcu, Lars Kristensen, Lene Sønderskov Dahl, Søren Jensen-Fangel, Johannes Martin Schmid, Elisabeth Bendstrup

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

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

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

Long-term sequelae of post-COVID-19 subjects from 19 centres across India
Sundeep Santosh Salvi (Pune (Maharashtra), India), Swapnil Gadhave, Mohankumar Thakkinkattil, Abhinav Chaudhary, Saili Bendre, Parthasarathi Bhattacharyya, B Archana, Malay Sarkar, Girija Nair, Deependra Kumar Rai, Abhay Uppe, Sonali Trivedi, Surya Kant Tripathi, Jitendra Ingle, D Sachin, Nitesh Gupta, Babaji Ghewade, Amit Tade, Mahavir Modi, Loveleen Sharma, Yuvraj Badhe, Pooja Bhalekar, Sapna Madas

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, Anuradha Subramanian, Naijie Guan, Krishna Gokhale, Puja Myles, Tim Williams, Tom Marshall, Melanie Calvert, Karen Matthews, Krishnarajah Nirantherakumar, Louise Jackson, Shamil Haroon

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

The role of booster vaccination in decreasing COVID-19 age-adjusted case fatality rate: evidence from 32 countries
Jing Gao (Helsinki, Finland), Cui Zhou, Ása Wheelock, Chutian Zhang, Jian Ma, Kaixing Dong, Zhichao Li, Wannian Liang, Lei Xu

Blood biomarkers and biological age among patients with long COVID
Shamil Haroon (Birmingham (West Midlands), United Kingdom), Anuradha Subramanian, Krishnarajah Nirantherakumar, Janet Lord, David C. Wraith

The effects Covid-19 had on the children of health care professionals
Ege Havlucu (Manisa, Turkey), Atalay Özkul, Deniz Kızılırmak

The impact of 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

Epidemiology of Respiratory Syncytial Virus in Germany before and during covid-19 pandemic
Svenja Loerch (Hamm, Germany), Frank Erdnues, Thorsten Reineke, Beate Frieh, Wolfgang Kamin

The role of Low-Dose CT scan in the early diagnosis of malignant neoplasms of different localization.
Anna Kovalchun (Sumy, Ukraine), Victor Kovalchun, Vladyslava Kachkovska, Liudmyla Prystupa

Sense of control association to breathlessness: an analysis of 30,000 men and women in the general population.
Max Olsson (Helsingborg, Sweden), Magnus Ekström
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

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

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 Ć Steiner, Rachael A Evans, David C Currow

Poster session: Nutrition, lifestyle and obesity in paediatric asthma and allergic rhinitis
Session 508 16:00 - 17:30

Asthma and atopy in overweight children
Valentina Cvejoska-Cholakovska (Skopje, North Macedonia), Emilia Vlashki, Vesna Velikj-Stefanovska

Data-driven model links BMIz to gene expression in pediatric asthma

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 Cantle, Stephen Bremner

Altered sphingolipid metabolism in childhood asthma and obesity
Antonisamy Belavendra (Doha, Qatar), Harshita Shailesh, Yahya Hani, Safa Noor, Lena Hasabelgavi, Mohammed Alfaki, Shana S Jacob, Saroja Kotegar Balayya, Stefan Worgall, Ibrahim Ahmed Janahi

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

Clinical usefulness of Electrical Impedance Tomography (EIT) in the evaluation of obese asthmatic children’ ventilation: a pilot case-control study
Younissa Belhay (Milano, Italy), Simone Gambazza, Mara Lelii, Barbara Madini, Alessia Rocchi, Lucia Cerrato, Antonella Gambadauro, Marta Piotto, Maria Francesca Patria

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

Regular physical activity in children: Does it improve pediatric asthma?
Besma Hamdi (Tunis, Tunisia), senda derouiche, Sabrine Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Agnès Hamzaoui

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 Garnelo, Teresa Perez-Castro, Samuel Sampedro

Neuropsychiatric adverse side-effects of montelukast in children – a Danish nationwide register study.
Louise Toennesen (København K, Denmark), Alexander Jordan, Josefín Eklof, Preadesh Sivapalan, Astrid Sevelsted, Klaus Bønnelykke, Charlotte Suppli Ulrik, Jens-Ulrik Stehr Jensen

“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**

**Differences in clinical characteristics between children with polysensitization and adults with allergic 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

**PA5366**

**Polysensitization in children: Clinical and allergenic characteristics**

Hela Cherif (Tunis, Tunisia), Chaima Baya, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaous Yangui, Mohamed Ridha Charfi

**PA5367**

**Asthmatic children with an early wheezing: A distinct phenotype?**

Besma Hamdi (Tunis, Tunisia), Mohamed aymen Jebali, Sabrine Louhaichi, Siwar Rejeb, Synda Derouiche, Farah Garci, Houneida Ben Zekri, Jamel Ammar, Agnés 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 Sabrine, 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 Torn-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 Rolßberg, Tina-Maria Weichert, Abigail Whitehouse, Paolo Maria Matricardi, Stephanie Dramburg

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**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**

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**

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**

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**

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
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  
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  
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  
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  
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  
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  
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  
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  
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
Federica Meloni (Pavia (PV), Italy)
### 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)

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<th>Time</th>
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<tr>
<td>08:30</td>
<td>Tobacco, e-cigarette and cannabis epidemic in youth</td>
<td>Elif Dagli (Istanbul, Turkey)</td>
<td>5387</td>
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<td>08:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<td>08:55</td>
<td>Indoor air pollution</td>
<td>Onno C. P. van Schayck (Maastricht, Netherlands)</td>
<td>5389</td>
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<tr>
<td>09:10</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### 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)

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<tr>
<td>09:00</td>
<td>Tobacco 21 policies: addressing smoking and ENDS use in young people</td>
<td>Des Cox (Dublin, Ireland)</td>
<td>5397</td>
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<td>09:10</td>
<td>Brainstorming session: how to make 21+ tobacco approach a reality in</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
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<td>Europe? Influencing national and EU agenda</td>
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<td>09:40</td>
<td>Tackling the vaping scourge in schools</td>
<td>Helen Parks (Lisburn, United Kingdom), Julie McDonald (, United Kingdom)</td>
<td>5399</td>
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<tr>
<td>09:45</td>
<td>ERS position on harm reduction and novel products</td>
<td>Filippos T. Filippidis (Rickmansworth, United Kingdom)</td>
<td>5400</td>
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<td>09:55</td>
<td>Trends in the use of electronic cigarettes, heated and smokeless</td>
<td>Silvano Gallus (Milano, Italy)</td>
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<td>tobacco in Italian youth</td>
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<td>10:05</td>
<td>Tobacco-free generation and endgame in Europe</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania)</td>
<td>5402</td>
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<td>10:15</td>
<td>Round table discussion: how to bridge existing regulation gaps in</td>
<td>Giuseppe Gorini (Firenze, Italy), Maria Sofia Cattaruzza (Roma (RM), Italy)</td>
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<td>Italy and Europe?</td>
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### 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

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Reference</th>
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<tbody>
<tr>
<td>09:45</td>
<td>Tobacco 21 policies: addressing smoking and ENDS use in young people</td>
<td>Des Cox (Dublin, Ireland)</td>
<td>5397</td>
</tr>
<tr>
<td>10:05</td>
<td>ERS position on harm reduction and novel products</td>
<td>Filippos T. Filippidis (Rickmansworth, United Kingdom)</td>
<td>5400</td>
</tr>
<tr>
<td>10:15</td>
<td>Trends in the use of electronic cigarettes, heated and smokeless</td>
<td>Silvano Gallus (Milano, Italy)</td>
<td>5401</td>
</tr>
<tr>
<td></td>
<td>tobacco in Italian youth</td>
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<tr>
<td>10:30</td>
<td>Tobacco-free generation and endgame in Europe</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania)</td>
<td>5402</td>
</tr>
<tr>
<td>10:45</td>
<td>Round table discussion: how to bridge existing regulation gaps in</td>
<td>Giuseppe Gorini (Firenze, Italy), Maria Sofia Cattaruzza (Roma (RM), Italy)</td>
<td>5403</td>
</tr>
<tr>
<td></td>
<td>Italy and Europe?</td>
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</tbody>
</table>
09:45  Introduction and welcome
All Speakers

09:50  How to build a great consortium: consortium building, stakeholder engagement
James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal)

10:10  Finding the right fit: defining your topic to fit with the hot topic of the time, addressing co-morbidities, working across disease areas
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

10:30  How to ensure your project has impact: awareness wider than the respiratory field, policy influence, public awareness
Herman Goossens (Edegem (Antwerp), Belgium), Rosa Faner Canet (Barcelona, Spain)

10:50  Getting involved in international research networks – patient and caregiver perspectives
Mikaela Odemyr (Järved, Sweden), Lucy Dixon (Buckingham, United Kingdom), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy)

11:10  How to gain the most value from data: how to collect, store and share
Celeste Michala Porsbjerg (Copenhagen, Denmark), Job F.M. van Boven (Groningen, Netherlands)

11:30  Key success factors for sustainability: long-term interest, funding and enthusiasm
Nadia Nathan (Paris, France), Ludger Grote (Göteborg, Sweden)

11:50  Lungs Europe – how we will support the respiratory community in the future
Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Salman Siddiqui (London, United Kingdom)

12:05  Networking – discussion on different tables on the different topics with the different speakers
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), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy), Ludger Grote (Göteborg, Sweden)

Overflow area

09:45 - 12:15
Wednesday special session: Women’s networking event
Connect, collaborate, empower

Chairs: Monika Gappa (Düsseldorf, Germany)

09:45  Overflow 1: Welcome
Monika Gappa (Düsseldorf, Germany), Judith Garcia-Aymerich (Barcelona, Spain)

10:20  Overflow 2: Academia - Women in Science
Sara Cuevas Ocaña (Nottingham, United Kingdom), Niki Ubags (Epalinges, Switzerland), Silke Meiners (Sülfeld, Germany), Zorana Andersen (Frederiksberg, Denmark)

10:20  Overflow 3: Academia - Women in Patient care/Healthcare
Monika Gappa (Düsseldorf, Germany), Arzu Yorgancioğlu (Konak, Turkey), Ildikó Horváth (Budakeszi, Hungary), Snezhina Lazova (Sofia, Bulgaria)

10:20  Overflow 4: Women in Industry
Maria Gabriela Belvisi (Mölndal, Sweden), Juby Anne Jacob-Nara (Hillsborough, United States), Sara Jane Bonvini (London, United Kingdom), Tricia Finney-Hayward (London, United Kingdom)

12:00  Overflow 1: Conclusions and take home messages
All Speakers

Chairs: Salman Siddiqui (London, United Kingdom), David Drummond (Paris, France), Florence Schleich (Liège, Belgium)
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, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

09:45  Yes, there is clinical utility in saying someone has ‘mild’ asthma
Florence Schleich (Liège, Belgium)  5418

10:00  No, there is no clinical utility in saying someone has ‘mild’ asthma
Johann Christian Virchow (Rostock, Germany)  5419

10:15  Discussion and Q&A
All Speakers  5420

Wednesday special session: Excellence in rare diseases care and research: the ERN-Lung initiative

**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  What is ERN-LUNG?
Marc Humbert (Le Kremlin-Bicêtre, France), Marlies S. Wijsenbeek (Rotterdam, Netherlands)  5421

10:15  How to get involved?
Gergely Meszaros (Vac, Hungary)  5422

10:25  What can networking do for my patients?
Adam Torbicki (Otwock, Poland)  5423

10:40  What can ERN-LUNG do for me?
Helge Hebestreit (Wuerzburg, Germany)  5424

10:55  ERN-LUNG Academy?
Elisabeth Humbert-Dorfmüller (Frankfurt am Main, Germany)  5425

11:05  ERN-LUNG Patients
Liam Galvin (Thurles, Ireland)  5426

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  Coffee and networking
All Speakers  5344

10:30  Why clean air and why now? What is the latest evidence on clean air and lung health?
Barbara Hoffmann (Düsseldorf, Germany)  5345
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<tr>
<td>10:45</td>
<td>Why clean air and why now? Why it matters to respiratory patients?</td>
<td>Kjeld Hansen (Oslo, Norway)</td>
<td>5436</td>
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<tr>
<td>11:00</td>
<td>Why is it important for Milan and Lombardy?</td>
<td>Francesco Forastiere (Roma (RM), Italy)</td>
<td>5436</td>
</tr>
<tr>
<td>11:15</td>
<td>How can we achieve change: communication and events</td>
<td>Pippa Powell (Sheffield (South Yorkshire), United Kingdom)</td>
<td>5438</td>
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<tr>
<td>11:30</td>
<td>How can we achieve change: working in partnership</td>
<td>Alessio Bui (Milan, Italy)</td>
<td>5439</td>
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<tr>
<td>11:45</td>
<td>How can we achieve change: From science to policy, how we can make an impact</td>
<td>Anne Stauffer (Brussels, Belgium)</td>
<td>5440</td>
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<tr>
<td>12:00</td>
<td>How can we achieve change: creating your legacy</td>
<td>Gloria Pellone (Milan, Italy)</td>
<td>5441</td>
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<tr>
<td>12:15</td>
<td>Call to action for clean air to Milan and Europe in light of the Ambient Air</td>
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<td>Quality Directive</td>
<td>All Speakers</td>
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</table>

### 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)

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<tr>
<td>10:30</td>
<td>Introduction</td>
<td>All Speakers</td>
<td>5427</td>
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<tr>
<td>10:35</td>
<td>Anticipating and coping with Seasonal respiratory burdens</td>
<td>Tobias Welte (Hannover, Germany)</td>
<td>5428</td>
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<tr>
<td>10:55</td>
<td>Seasonal burdens: a global patient perspective</td>
<td>Tonya Winders (Hendersonville, United States)</td>
<td>5429</td>
</tr>
<tr>
<td>11:15</td>
<td>The way forward in preventing and managing COPD exacerbations</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
<td>5430</td>
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<tr>
<td>11:35</td>
<td>Assessing and caring for the respiratory consequences of wildfires</td>
<td>Christine Jenkins (McMahons Point (NSW), Australia)</td>
<td>5431</td>
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<tr>
<td>11:55</td>
<td>Role of the International Respiratory Coalition</td>
<td>Carlos Robalo Cordeiro (Coimbra, Portugal)</td>
<td>5432</td>
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<tr>
<td>12:10</td>
<td>Panel discussion: identifying needs and creating a strategy for national IRC</td>
<td>Judith Garcia-Aymerich (Barcelona, Spain), Chantal Raherison-Semjen (Pointe-à-Pitre (Guadeloupe), France), Ellen Ricke (Hillegom, Netherlands), Chris Compton (Brentford, Middlesex, United Kingdom), Christine Harrison (Vernier, Switzerland), Dimitris Kontopidis (ATHENS, Greece)</td>
<td>5433</td>
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### 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)

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<td>11:00</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<td>Session</td>
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<tr>
<td>ERS Stand/World Village</td>
<td><strong>Session 80</strong></td>
<td>09:00 - 09:30</td>
<td>ALAT World Village Session All Speakers</td>
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<tr>
<td>ERS Stand/World Village</td>
<td><strong>Session 81</strong></td>
<td>09:45 - 10:15</td>
<td>KTS World Village Session All Speakers</td>
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<tr>
<td>ERS Stand/World Village</td>
<td><strong>Session 153</strong></td>
<td>13:00 - 14:00</td>
<td>Meet with the ECMC representatives: ERS opportunities for ECMs/Basic and translational sciences (Assembly 3) within the ERS All Speakers</td>
</tr>
<tr>
<td>ERS Stand/World Village</td>
<td><strong>Session 91</strong></td>
<td>15:00 - 15:30</td>
<td>SRP World Village Session All Speakers</td>
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<td>ERS Stand/World Village</td>
<td><strong>Session 94</strong></td>
<td>15:45 - 16:15</td>
<td>PCCP World Village Session All Speakers</td>
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<td>No Room</td>
<td><strong>Session 82</strong></td>
<td>16:30 - 17:00</td>
<td>TTS World Village Session All Speakers</td>
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<td>TTS World Village Session All Speakers</td>
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## Session world village: BeRS World Village Session

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<td>17:15</td>
<td>BeRS World Village Session</td>
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<td>17:15</td>
<td>BeRS World Village Session</td>
<td>All Speakers</td>
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<td>12:00</td>
<td>Meet with the ECMC representatives</td>
<td>Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey), Karen Moor (Rotterdam, Netherlands)</td>
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<td>13:00</td>
<td>Meet with the ECMC representatives: How to increase your visibility and network as ECM</td>
<td>Susanne Vijverberg (Amsterdam, Netherlands), Joana Cruz (Leiria, Portugal), Thomas Gille (Bobigny, France)</td>
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<td>15:00</td>
<td>ARIR World Village Session</td>
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<td>HTS World Village Session</td>
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<td>88</td>
<td>JRS World Village Session</td>
<td>09:00</td>
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<td>89</td>
<td>ATS World Village Session</td>
<td>09:45</td>
<td>All Speakers</td>
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<td>430</td>
<td>Meet with the ECMC representatives: How to get involved in ERS activities as an Early Career Member</td>
<td>12:00</td>
<td>All Speakers</td>
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<td>KATRD World Village Session</td>
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<td>All Speakers</td>
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<td>ASSOBRAFIR World Village Session</td>
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<td>All Speakers</td>
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<td>93</td>
<td>EPPS World Village Session</td>
<td>16:30</td>
<td>All Speakers</td>
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INDUSTRY SESSIONS
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*  

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<tr>
<td>07:15</td>
<td>Welcome</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
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<tr>
<td>07:20</td>
<td>Progression of Underlying Disease in Pediatric Severe Asthma</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
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<tr>
<td>07:35</td>
<td>Panel Discussion - All faculty</td>
<td>All Speakers</td>
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<tr>
<td>07:45</td>
<td>Assessing Disease Activity to Better Define On-Treatment Clinical Remission in Pediatric Severe Asthma</td>
<td>Sharon Dell (Vancouver, British Columbia, Canada)</td>
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<td>08:05</td>
<td>Question and Answer - All faculty</td>
<td>All Speakers</td>
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### 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 Insmed*  

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<td>Chair’s Introduction and Program Overview</td>
<td>Christoph Lange (Borstel, Germany)</td>
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<tr>
<td>07:30</td>
<td>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</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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<tr>
<td>07:45</td>
<td>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</td>
<td>David E. Griffith (Denver, United States)</td>
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<tr>
<td>08:00</td>
<td>Completing the Journey from Diagnosis to Cure in MAC Lung Disease: Practical Approaches to Ensure Drug Toleration, Minimize Side Effects, and Optimize Regimen Adherence with Inhaled Antimicrobial Formulations—Translating Trial-Based Results to Real World, Side Effect-Mitigating Patient Care</td>
<td>Christoph Lange (Borstel, Germany)</td>
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### 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*  

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<td>08:00</td>
<td>Hands On</td>
<td>Enrico Storti (Cremona, Italy), Mirko Zanatta (Valdagno, Italy)</td>
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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*  

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<tr>
<td>08:00</td>
<td>Impact of Mask Choice on CPAP therapy outcomes</td>
<td>Pedro Rodrigues Genta (São Paulo (SP), Brazil)</td>
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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 Ehrams-Tosi (Uster, Switzerland)

10:30 The curves of AirView for ventilation and ResScan and how to interpret information
Claudia Crimi (Catania (CT), Italy)

10:48 How to discover any issues and when to consult ResScan
OLIVIER SAGNARD (Saint Priest, France)

11:00 Hands On

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)

10:30 Hospital perspective: Improving workflow using automated ventilation technologies
Maxime Patout (Paris, France)

10:45 Home perspective: Improving workflow using automated ventilation technologies
Swapna Mandal (London, United Kingdom)

11:00 Hands On
Julie Yarascavitch (Encinitas, United States)

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)

12:15 Welcome and Introduction
Mario Tozzi (Italy)

12:25 From BPD to COPD: early origins of chronic lung diseases
Anne Greenough (London, United Kingdom)

12:35 Different approach in listening to people with respiratory diseases. The Human Factor Study
Nicola Scichilone (Palermo (PA), Italy)

12:55 How small airway diseases are relevant for the patients? Asthma and COPD insights
Monica Kraft (New York, United States)

13:05 Summary and close
Mario Tozzi (Italy)

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)

12:15 Welcome, introduction and opening remarks
Mona Bafadhel (London, United Kingdom)
12:17 COPD through a different lens: the implications of COPD-driven cardiopulmonary risk
Paola Rogliani (Roma (RM), Italy)

12:32 Panel discussion | Expanding our view of COPD: looking at the lungs and beyond
Daiana Stolz (Freiburg, Germany)

12:42 Focusing on proactive management: preventing exacerbations and reducing mortality with triple therapy
Mona Bafadhel (London, United Kingdom)

12:58 Reflections from a cardiologist: the importance of mortality reduction
Chris Gale (Leeds, United Kingdom)

13:03 Panel discussion | Visualising the future: driving a proactive and multidisciplinary approach
Daiana Stolz (Freiburg, Germany)

13:13 Summary and close
Mona Bafadhel (London, United Kingdom)

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 Welcome and introductions
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:20 Realising Clinical Remission: the true impact of delayed intervention
Tonya Winders (Hendersonville, United States), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:25 Challenging the consensus: implementing a predict and prevent approach to care
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Tonya Winders (Hendersonville, United States), Peter Gibson (Newcastle, Australia)

12:40 Panel discussion: Clinical Remission: how do we make it happen in practice? - All faculty
All Speakers

12:55 Anti-IL-5 in an evolving treatment paradigm
Enrico Marco Heffler (Milano, Italy)

13:10 Summary and close
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

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 Welcome and Opening Remarks
Francesco Blasi (Milan, Italy)

12:20 The Public Health Impact of Pneumococcal Vaccination in Adults with Pulmonary Diseases
Eva Polverino (Barcelona, Spain)

12:40 Making a Strong Recommendation for Pneumococcal Vaccination
Gernot G.U. Rohde (Frankfurt am Main, Germany)

13:00 Faculty Discussion and Q&A Session - All faculty
All Speakers

13:14 Closing Remarks
Francesco Blasi (Milan, Italy)
### 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)

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<tbody>
<tr>
<td>12:15</td>
<td><strong>Introduction</strong></td>
<td>Fabiano Di Marco (Milan, Italy)</td>
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<td>932</td>
</tr>
<tr>
<td>12:20</td>
<td><strong>The Gold Standard for starting treatment in COPD</strong></td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
<td></td>
<td>933</td>
</tr>
<tr>
<td>12:35</td>
<td><strong>Inhaled corticosteroids in COPD: who and when?</strong></td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td></td>
<td>934</td>
</tr>
<tr>
<td>12:50</td>
<td><strong>Optimal Strategies in Asthma Management</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
<td></td>
<td>935</td>
</tr>
<tr>
<td>13:05</td>
<td><strong>Q&amp;A - All faculty</strong></td>
<td>All Speakers</td>
<td></td>
<td>936</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>12:15</td>
<td><strong>Welcome &amp; Introduction</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td></td>
<td>937</td>
</tr>
<tr>
<td>12:18</td>
<td><strong>The role of the airway epithelium as a critical immune-functioning organ</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td></td>
<td>938</td>
</tr>
<tr>
<td>12:28</td>
<td><strong>Bronchial and nasal epithelium: are they the same?</strong></td>
<td>Marco Caminati (Verona (VR), Italy)</td>
<td></td>
<td>939</td>
</tr>
<tr>
<td>12:38</td>
<td><strong>The epithelium: from pathogenesis to the clinic, and the use of biomarkers</strong></td>
<td>Delbert Dorscheid (Vancouver (BC), Canada)</td>
<td></td>
<td>940</td>
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<tr>
<td>12:48</td>
<td><strong>The role of epithelial cytokines in asthma control and remission</strong></td>
<td>Pascal Chanez (Marseille, France)</td>
<td></td>
<td>941</td>
</tr>
<tr>
<td>12:58</td>
<td><strong>Learnings from the epithelium: implications for patient care and future opportunities</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td></td>
<td>942</td>
</tr>
<tr>
<td>13:14</td>
<td><strong>Symposium close</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td></td>
<td>943</td>
</tr>
</tbody>
</table>

### 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)

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<tbody>
<tr>
<td>12:15</td>
<td><strong>Welcome and introduction: importance of holistic approach to patient care</strong></td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td></td>
<td>944</td>
</tr>
<tr>
<td>12:25</td>
<td><strong>Case study 1: Your COPD patient</strong></td>
<td>Barbara Yawn (Blaine, United States)</td>
<td></td>
<td>945</td>
</tr>
<tr>
<td>12:37</td>
<td><strong>Case study 2: Your Asthma patient</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
<td></td>
<td>946</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<tr>
<td>12:49</td>
<td>Role of pulmonologists in the prevention of vaccine-preventable diseases</td>
<td>Rosario Menendez Villanueva (Valencia, Spain)</td>
<td></td>
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</tr>
<tr>
<td>13:01</td>
<td>Panel discussion and Q&amp;A session - All faculty</td>
<td>All Speakers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:11</td>
<td>Summary and close</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
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</tr>
</tbody>
</table>

**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)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Welcome and introduction</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>12:50</td>
<td>Navigating the COVID-19 disease landscape</td>
<td>Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:00</td>
<td>How are data guiding the management of COVID-19?</td>
<td>Tobias Welte (Hannover, Germany), Robert Gottlieb (Dallas, United States)</td>
</tr>
<tr>
<td>13:25</td>
<td>Finding our way with individualised treatment - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:40</td>
<td>Summary and meeting close</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
</tbody>
</table>

**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)

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Opening Remarks - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:50</td>
<td>Understanding the Patient Phenotypes of Type 2 Asthma</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>13:00</td>
<td>Beyond Control With Dupilumab in Type 2 Asthma</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
</tr>
<tr>
<td>13:10</td>
<td>Is Freedom From OCS-Dependence Possible? Review of the Evidence for Dupilumab</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
</tr>
<tr>
<td>13:20</td>
<td>Panel DiscussionReconsidering Long-Term Goals Beyond Control for Severe Asthma Management - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:30</td>
<td>Audience Q&amp;A - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:40</td>
<td>Closing Remarks - All faculty</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**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)
<table>
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<tr>
<th>Time</th>
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<th>Title</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Welcome Introduction</td>
<td>Welcome &amp; introduction Susanna Esposito (Milano (MI), Italy)</td>
<td></td>
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<td>1365</td>
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<tr>
<td>12:50</td>
<td>Session 1</td>
<td>Understanding the potential of bacterial lysates exposure for the prevention of childhood recurrent respiratory tract infections</td>
<td>ERIKA RÉNATE MARIE VON MUTIUS (Muenchen, Germany)</td>
<td></td>
<td>1366</td>
</tr>
<tr>
<td>13:10</td>
<td>Session 2</td>
<td>Role of immunomodulation in children with recurrent respiratory tract infections and wheezing</td>
<td>Manuel Soto Martinez (San José, Costa Rica)</td>
<td></td>
<td>1367</td>
</tr>
<tr>
<td>13:30</td>
<td>Session 2</td>
<td>Summary &amp; concluding remarks</td>
<td>Susanna Esposito (Milano (MI), Italy)</td>
<td></td>
<td>1368</td>
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<tr>
<td>13:35</td>
<td>Q&amp;A</td>
<td>Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td></td>
<td>1369</td>
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<tr>
<td>14:00</td>
<td>Session 161</td>
<td>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 in the diagnosis and management of lower airway dysfunction in physically active patients and athletes. Organised by GANSHORN Medizin Electronic GmbH</td>
<td>John Dickinson (Canterbury, United Kingdom), James H. Hull (London, United Kingdom)</td>
<td>Amber 5+6</td>
<td>1407</td>
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<tr>
<td>14:00</td>
<td>Workshop</td>
<td>Introduction of the Eucapnic Voluntary Hyperpnea (EVH) Test: How is the test done and what are the indications. Presentation of current scientific findings.</td>
<td>James H. Hull (London, United Kingdom)</td>
<td></td>
<td>1407</td>
</tr>
<tr>
<td>14:20</td>
<td>Workshop</td>
<td>Comparison of spirometry and oscillometry as a tool for grading the bronchoconstriction</td>
<td>John Dickinson (Canterbury, United Kingdom)</td>
<td></td>
<td>1408</td>
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<tr>
<td>14:30</td>
<td>Workshop</td>
<td>A live-demonstration of the EucapSys EVH device, use of oscillometry as a diagnostic tool and the possibility for hands-on usage.</td>
<td>James H. Hull (London, United Kingdom)</td>
<td></td>
<td>1409</td>
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<tr>
<td>14:00</td>
<td>Session 162</td>
<td>Industry Skills Lab Workshop: CPAP therapy and cardiovascular outcomes - what have we learned from real-life cohorts? Organised by ResMed</td>
<td>Sophia E. Schiza (Heraklion, Greece), Andreas Palm (Uppsala, Sweden)</td>
<td>Amber 7+8</td>
<td>1410</td>
</tr>
<tr>
<td>14:00</td>
<td>Workshop</td>
<td>CPAP therapy and cardiovascular outcomes.</td>
<td>Frédéric Gagnadoux (Orvault, France)</td>
<td></td>
<td>1410</td>
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<tr>
<td>14:18</td>
<td>Workshop</td>
<td>Phenotype and patient centric approaches with CPAP therapy</td>
<td>Raphael Heinzer (Lausanne, Switzerland)</td>
<td></td>
<td>1411</td>
</tr>
<tr>
<td>15:30</td>
<td>Session 177</td>
<td>Industry Skills Lab Workshop: Make a Lung-Term Impact: Strengthen Your Procedure Skills in Interventional Pulmonology Organised by OLYMPUS EUROPA SE &amp; CO. KG</td>
<td>Mohammed Munavvar (Preston (Lancashire), United Kingdom), Ales Rozman (Golnik, Slovenia)</td>
<td>Amber 5+6</td>
<td>1515</td>
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<tr>
<td>15:30</td>
<td>Workshop</td>
<td>EBUS-TBNA: Handling all procedure steps safely and efficiently</td>
<td>António Apolinário Bugalho De Almeida (Lisboa, Portugal)</td>
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<td>1515</td>
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<tr>
<td>15:30</td>
<td>Workshop</td>
<td>Peripheral bronchoscopy: Plan, access and identify peripheral lesions for successful sampling</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<td>1516</td>
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<tr>
<td>15:30</td>
<td>Workshop</td>
<td>Emphysema and air leak treatment with EVIS X1: Elevating the standard of therapeutic interventions</td>
<td>Matthias Hecker (Gießen, Germany)</td>
<td></td>
<td>1517</td>
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</tbody>
</table>
15:30 Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity
Mohammed Munavvar (Preston (Lancashire), United Kingdom)

15:30 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 Evidence to practice
Claudia Crimi (Catania (CT), Italy)

15:48 Clinical practice through case studies
Line Storgaard (Aabybro, Denmark)

16:06

16:24

17:30 Industry evening symposium: A Journey Through the Spectrum of Pulmonary Fibrosis
Organised by Boehringer Ingelheim International GmbH
Chairs: Luca Richeldi (Roma, Italy)

17:30 Welcome and introduction
Luca Richeldi (Roma, Italy)

17:40 Diagnosis and treatment of pulmonary fibrosis: where are we now?
Vincent Cottin (Lyon, France)

17:55 Interstitial lung abnormalities: a call to action?
Sara Tomassetti (Florence, Italy)

18:10 Progressive pulmonary fibrosis: the end of the spectrum?
Elisabetta Renzoni (London, United Kingdom)

18:25 Research in pulmonary fibrosis: where are we going?
Fernando J. Martinez (New York, United States)

18:40 Q&A - All faculty
All Speakers

17:30 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 Opening Remarks - All faculty
All Speakers

17:35 COPD a Progressive Airway Disease Shaped by Exacerbations
Frank Sciurba (Pittsburgh, United States)

17:50 Characterization of COPD: Emerging Phenotypes and Endotypes
MeiLan K. Han (Ann Arbor, United States)

18:05 Panel Discussion Extending Beyond the Pink Puffer and Blue Bloater: What Role Do Novel Phenotypes Play in the Clinic? - All faculty
All Speakers

18:15 Understanding Inflammatory Pathways Driving the Pathophysiology of COPD
Kenneth R. Chapman (Toronto (ON), Canada)
### 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)

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<tr>
<td>17:30</td>
<td>Welcome and introduction: The virtuous cycle of patient partnerships, improved outcomes, and sustainable respiratory care</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>17:40</td>
<td>Why climate change and environmental sustainability is everybody's problem</td>
<td>Rachel Huxley (Melbourne, Australia)</td>
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<tr>
<td>17:50</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>18:00</td>
<td>How sustainable global pharmaceutical regulations are impacting supply chains: What this could mean for your patients</td>
<td>John Pritchard (Newtown Linford, United Kingdom)</td>
</tr>
<tr>
<td>18:10</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:15</td>
<td>Combining sustainable interventions with optimal patient outcomes: Lessons learned from adult-onset asthma phenotypes</td>
<td>Hannu Kankaanranta (Seinäjoki, Finland)</td>
</tr>
<tr>
<td>18:25</td>
<td>The UK view on sustainable clinical decision-making in respiratory care</td>
<td>Alexander Wilkinson (Hertfordshire, United Kingdom)</td>
</tr>
<tr>
<td>18:35</td>
<td>The Nordic view on sustainable clinical decision-making in respiratory care</td>
<td>Christer Janson (Uppsala, Sweden)</td>
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<tr>
<td>18:45</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>18:55</td>
<td>Summary and close</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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### Yellow 1+2+3  
**Session 208** 17:30 - 19:00

*Organised by Janssen Pharmaceutica NV*

**Chairs:** Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)

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<tr>
<td>17:30</td>
<td>Welcome and introductions</td>
<td>Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)</td>
</tr>
<tr>
<td>17:35</td>
<td>Unravelling unexplained dyspnoea</td>
<td>Athénaïs Boucly (Le Kremlin Bicêtre, France)</td>
</tr>
<tr>
<td>18:05</td>
<td>Initial management and follow-up of PAH</td>
<td>Vasile Foris (Graz, Austria)</td>
</tr>
<tr>
<td>18:25</td>
<td>Individualising treatment in patients with PAH and comorbidities</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
</tr>
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</table>
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)

17:35 GOLD 2023 update: Implications for pharmacological COPD management
Alberto Papi (Cona, Ferrara, Italy)

17:50 Patient burden of living with COPD: Putting timely treatment optimisation into practice
Jadwiga Wedzicha (London, United Kingdom)

18:00 Evolutions in molecular pharmacology to maximise patient benefits
Claus Vogelmeier (Marburg, Germany)

18:15 Device selection principles in COPD management to optimise patient outcomes
David M. G. Halpin (Exeter, United Kingdom)

18:25 From theory to practice: Real-world evidence of triple therapy in COPD management
David M. G. Halpin (Exeter, United Kingdom)

18:40 Q&A - All faculty
All Speakers

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)

17:35 Managing severe asthma: treatment guidelines and clinical perspectives
Renaud Louis (Liège, Belgium)

17:45 RWE for severe asthma: background therapy patterns before and after biologic use
Cláudia Catarina Ferreira Chaves Loureiro (Coimbra, Portugal)

18:05 Interactive discussion: how should the reduction of background treatment be approached in patients with well-controlled asthma? - All faculty
All Speakers

18:35 Background treatment reduction: how far can we go in severe asthma?
Stephanie Korn (Mainz, Germany)

18:50 Q&A and close
All Speakers

Industry evening symposium: Dr Jekyll and Mr Hyde: the two faces of bronchiectasis
Organised by Insmed Netherlands BV

Chairs: Tobias Welte (Hannover, Germany)

17:30 Introduction and patient case study overview
Tobias Welte (Hannover, Germany)
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<thead>
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<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Year</th>
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<tbody>
<tr>
<td>17:45</td>
<td></td>
<td>Delving deeper into this patient’s pathophysiology</td>
<td>Anne O'Donnell (Washington, United States)</td>
<td>2012</td>
</tr>
<tr>
<td>17:55</td>
<td></td>
<td>Management of infection: the key driver of bronchiectasis</td>
<td>Charles Haworth (Cambridge, United Kingdom)</td>
<td>2013</td>
</tr>
<tr>
<td>18:10</td>
<td></td>
<td>Bronchiectasis is an inflammatory condition</td>
<td>Eva Polverino (Barcelona, Spain)</td>
<td>2014</td>
</tr>
<tr>
<td>18:20</td>
<td></td>
<td>Management of inflammation: the key driver of bronchiectasis</td>
<td>Pieter Goeminne (Bornem, Belgium)</td>
<td>2015</td>
</tr>
<tr>
<td>18:40</td>
<td></td>
<td>Panel discussion &amp; summary - All faculty</td>
<td>All Speakers</td>
<td>2016</td>
</tr>
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</table>

**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)

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<th>Speaker(s)</th>
<th>Year</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>2017</td>
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<tr>
<td>17:35</td>
<td>NCFBE- What to do when things get tricky?</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>2018</td>
</tr>
<tr>
<td>17:53</td>
<td>Severe asthma and AATD– Cause or comorbidity?</td>
<td>Laura Pini (Brescia (BS), Italy)</td>
<td>2019</td>
</tr>
<tr>
<td>18:11</td>
<td>Alpha-1 Antitrypsin deficiency- What’s around the bend?</td>
<td>José Luis López-Campos Bodineau (Sevilla, Spain)</td>
<td>2020</td>
</tr>
<tr>
<td>18:29</td>
<td>Pulmonary rehabilitation: Old questions- new answers!?</td>
<td>Andreas Rembert Koczulla (Schönaun am Königssee, Germany)</td>
<td>2021</td>
</tr>
<tr>
<td>18:47</td>
<td>Final discussion</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>2022</td>
</tr>
<tr>
<td>18:55</td>
<td>ALTA-award ceremony</td>
<td>Marion Trautmann (Frankfurt am Main, Germany)</td>
<td>2023</td>
</tr>
<tr>
<td>18:58</td>
<td>Summary and Close</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>2024</td>
</tr>
</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Chair's welcome and introduction</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
<td>2025</td>
</tr>
<tr>
<td>17:40</td>
<td>From the beginning: Early manifestations of CF</td>
<td>Maria Carmen Luna-Paredes (Madrid, Spain)</td>
<td>2026</td>
</tr>
<tr>
<td>17:55</td>
<td>Through the ages: Tracking lung disease</td>
<td>Mirjam Stahl (Berlin, Germany)</td>
<td>2027</td>
</tr>
<tr>
<td>18:15</td>
<td>Futureproofing CF care in the pulmonology department: A view from Italy</td>
<td>Andrea Gramegna (Milano (MI), Italy)</td>
<td>2028</td>
</tr>
<tr>
<td>18:35</td>
<td>Panel discussion and Q&amp;A Looking to the future: The evolving needs of CF - All faculty</td>
<td>All Speakers</td>
<td>2029</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Speaker</td>
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</tr>
<tr>
<td>18:55</td>
<td>Summary and close</td>
<td>Stefano Aliberti (Milano MI, Italy)</td>
<td></td>
</tr>
</tbody>
</table>
### 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)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Hands on 2 x transbronchial cryobiopsy, 2 x central airway obstruction</td>
<td>Jürgen Hetzel (Switzerland), Pallav L. Shah</td>
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<tr>
<td></td>
<td></td>
<td>(London, United Kingdom)</td>
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</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>10:30</td>
<td>What evidence-based medicine says about ASV therapy</td>
<td>Michael Arzt (Regensburg, Germany)</td>
</tr>
<tr>
<td>10:48</td>
<td>The indication of use of ASV therapy</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Introduction to CPAP Therapy and Telemedicine</td>
<td>Stefania Redolfi (Cagliari, Italy)</td>
</tr>
<tr>
<td>10:35</td>
<td>Improving sleep apnea management using technological advancements</td>
<td>Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)</td>
</tr>
<tr>
<td>11:00</td>
<td>Hands On</td>
<td>Faycal Abdenbi (Goussainville, France), Mikel</td>
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<td></td>
<td>Azpiazu Blocona (Vitoria-Gasteiz, Spain)</td>
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</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>12:15</td>
<td>The next era in severe asthma management</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
</tr>
<tr>
<td>12:20</td>
<td>The role of TSLP in driving severe asthma</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
<tr>
<td>12:35</td>
<td>Targeting TSLP in severe asthma</td>
<td>Michael E. Wechsler (Denver, United States)</td>
</tr>
<tr>
<td>12:50</td>
<td>Clinical experience with targeting TSLP - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:05</td>
<td>Audience Q&amp;A and close</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
</tr>
</tbody>
</table>

### Silver
#### Session 275
12:15 - 13:15

**Industry Lunchtime Symposium: Targeting COPD With Type 2 Inflammation: Emerging Biologic Landscape**  
*Organised by Sanofi Regeneron*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>12:15</td>
<td>Welcome and Objectives</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
<td>2644</td>
</tr>
<tr>
<td>12:20</td>
<td>Contextualizing Clinical Consequences of COPD Through Disease Pathology</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
<td>2645</td>
</tr>
<tr>
<td>12:30</td>
<td>Heterogeneity of Inflammatory Pathways in COPD</td>
<td>Stephanie Christenson (San Francisco, United States)</td>
<td>2646</td>
</tr>
<tr>
<td>12:40</td>
<td>The Evolving Clinical Landscape in COPD and Implications for Disease Management</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>2647</td>
</tr>
<tr>
<td>13:00</td>
<td>Panel Discussion and Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td>2648</td>
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<tr>
<td></td>
<td><strong>Coral 4+5</strong></td>
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<td></td>
<td><strong>Session 276 12:15 - 13:15</strong></td>
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<tr>
<td></td>
<td>Industry Lunchtime Symposium: The next phase in proactive asthma management?</td>
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<td></td>
<td>Steps towards patient-focused personalised care</td>
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<td></td>
<td><strong>Organised by GSK</strong></td>
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</tr>
<tr>
<td>12:15</td>
<td>Introduction and welcome</td>
<td>Anurita Majumdar (Singapore, Singapore)</td>
<td>2649</td>
</tr>
<tr>
<td>12:20</td>
<td>Unmet needs in asthma management: APPaRENT calls for progress</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
<td>2650</td>
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<tr>
<td>12:35</td>
<td>Clinical views on asthma control: Patient traits that affect treatment fates</td>
<td>Gabriel Garcia (Ciudad Autónoma Buenos Aires, Argentina)</td>
<td>2651</td>
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<tr>
<td>12:50</td>
<td>Exploring patient factors: Personalising asthma care through shared decision-making</td>
<td>Kim Lavoie (Montréal (QC), Canada)</td>
<td>2652</td>
</tr>
<tr>
<td>13:00</td>
<td>Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td>2653</td>
</tr>
<tr>
<td>13:10</td>
<td>Summary and close</td>
<td>Anurita Majumdar (Singapore, Singapore)</td>
<td>2654</td>
</tr>
<tr>
<td></td>
<td><strong>Coral 3</strong></td>
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<tr>
<td></td>
<td><strong>Session 277 12:15 - 13:15</strong></td>
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<tr>
<td></td>
<td>Industry Lunchtime Symposium: Pulmonary Arterial Hypertension in the Patient with Comorbidities</td>
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<td><strong>Organised by MSD</strong></td>
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<tr>
<td>12:15</td>
<td>Outcomes in PAH patients with comorbidities</td>
<td>Marius M. Hoepner (Hannover, Germany)</td>
<td>2655</td>
</tr>
<tr>
<td>12:25</td>
<td>Characteristics and treatment of the PAH patient with comorbidities- US perspective</td>
<td>Mardi Gomberg-Maitland (Chicago, United States)</td>
<td>2656</td>
</tr>
<tr>
<td>12:35</td>
<td>Relevance of comorbidities on initial combination therapy in pulmonary arterial hypertension</td>
<td>Roberto Badagliacca (Rome, Italy)</td>
<td>2657</td>
</tr>
<tr>
<td>12:45</td>
<td>Challenges faced in clinical decision making when PAH patients present with cardiopulmonary comorbidities</td>
<td>Jean-Luc Vachiery (Bruxelles, Belgium)</td>
<td>2658</td>
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<tr>
<td>12:55</td>
<td>ESC/ERS perspective on the treatment algorithm of the PAH patient with comorbidities</td>
<td>Stephan Rosenkranz (Köln, Germany)</td>
<td>2659</td>
</tr>
<tr>
<td>13:00</td>
<td>Round Table Q&amp;A/discussion</td>
<td>Stephan Rosenkranz (Köln, Germany)</td>
<td>2660</td>
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</table>
### 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)

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<tr>
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<tbody>
<tr>
<td>12:15</td>
<td>Welcome</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)</td>
<td></td>
<td>2661</td>
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<tr>
<td>12:20</td>
<td>IL-5 and eosinophil interactions in asthma disease progression</td>
<td>Kathleen Buchheit (Boston, United States)</td>
<td></td>
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</tr>
<tr>
<td>12:30</td>
<td>The impact of IL-5 on structural airway remodelling in asthma</td>
<td>Konstantinos Porpodis (Thessaloniki, Greece)</td>
<td></td>
<td>2663</td>
</tr>
<tr>
<td>12:40</td>
<td>The impact of IL-5 on mucus plugging in asthma</td>
<td>Jens Vogel-Claussen (Hannover, Germany)</td>
<td></td>
<td>2664</td>
</tr>
<tr>
<td>12:50</td>
<td>The impact of IL-5 on lung function in asthma</td>
<td>Salman Siddiqui (London, United Kingdom)</td>
<td></td>
<td>2665</td>
</tr>
<tr>
<td>13:00</td>
<td>Q&amp;A and concluding comments</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)</td>
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</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>12:15</td>
<td>Welcome and introduction</td>
<td>Kostas Syrigos (Athens, Greece)</td>
<td></td>
<td>2667</td>
</tr>
<tr>
<td>12:20</td>
<td>Case study 1: Maximising early detection of lung cancer: enhancing screening approaches</td>
<td>Neal Navani (London, United Kingdom)</td>
<td></td>
<td>2668</td>
</tr>
<tr>
<td>12:30</td>
<td>Case study 2: Optimising diagnostic workup of early-stage NSCLC</td>
<td>Stefan Barath (Staffanstorp, Sweden)</td>
<td></td>
<td>2669</td>
</tr>
<tr>
<td>12:40</td>
<td>Case study 3: The importance and impact of accurate clinical staging of lung cancer</td>
<td>Lina Zuccatosta (Torrette (AN), Italy)</td>
<td></td>
<td>2670</td>
</tr>
<tr>
<td>12:50</td>
<td>Panel discussion and Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td></td>
<td>2671</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:15</td>
<td>Welcome address, housekeeping, opening with interactivity</td>
<td>Stephen Holmes (Somerset, United Kingdom)</td>
<td></td>
<td>2672</td>
</tr>
<tr>
<td>12:20</td>
<td>Digital technologies and health economics – what is there to gain?</td>
<td>Job F.M. van Boven (Groningen, Netherlands)</td>
<td></td>
<td>2673</td>
</tr>
<tr>
<td>12:30</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
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<td>2674</td>
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<tr>
<td>12:35</td>
<td>Unpacking the theory – what does the data tell us?</td>
<td>Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
<td></td>
<td>2675</td>
</tr>
<tr>
<td>12:45</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
<td></td>
<td>2676</td>
</tr>
</tbody>
</table>
12:50 Clinical experience – what have we seen so far?  
Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)  
2677

13:00 Audience Q&A - All faculty  
All Speakers  
2678

13:10 Closing address, closing interactivity  
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 Welcome and introduction  
Christine Jenkins (McMahons Point (NSW), Australia)  
3073

12:55 Global strategy for the prevention and management of asthma  
Eric D. Bateman (Cape Town, South Africa)  
3074

13:05 Keynote session: ICS-formoterol Anti-Inflammatory Reliever (AIR)  
Richard Beasley (Wellington, New Zealand)  
3075

13:15 Improving asthma care through implementation of the SENTINEL program: findings from the pilot site  
Michael Crooks (East Riding of Yorkshire, United Kingdom)  
3076

13:25 A call to action: time to change the SABA culture  
Alberto Papi (Cona, Ferrara, Italy)  
3077

13:35 Q&A session and close - All faculty  
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 Welcome and introduction  
Francesco Blasi (Milan, Italy)  
3079

12:50 The risk is still there: The ongoing burden of COVID-19  
Francesco Blasi (Milan, Italy)  
3080

13:00 Helping to protect against the risk: The role of adapted COVID-19 vaccines  
Gili Regev-Yochay (Boston, United States)  
3081

13:15 Strategies for populations at increased risk: The role of COVID-19 treatment  
Rosario Menendez Villanueva (Valencia, Spain)  
3082

13:30 Panel Q&A session: COVID-19: What role can respiratory experts play? - All faculty  
All Speakers  
3083

13:40 Closing remarks  
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)
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Introduction</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
<td>3085</td>
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</tr>
<tr>
<td>12:50</td>
<td>When the ILD patient gets more symptomatic - consider PH!</td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
<td>3086</td>
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</tr>
<tr>
<td>13:10</td>
<td>PH-ILD treatment: why, who and how?</td>
<td>David Montani (Le Kremlin-Bicêtre, France)</td>
<td>3087</td>
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<tr>
<td>13:30</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
<td>3088</td>
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<tr>
<td>12:45 - 13:45</td>
<td>Yellow 1+2+3</td>
<td>Session 305</td>
<td>Industry Lunchtime Symposium: Rethinking MAC lung disease treatment and care</td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:45</td>
<td>Meet our expert faculty</td>
<td>All Speakers</td>
<td>3090</td>
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</tr>
<tr>
<td>12:50</td>
<td>Why should we test our patients for MAC lung disease? - All faculty</td>
<td>All Speakers</td>
<td>3091</td>
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</tr>
<tr>
<td>13:05</td>
<td>Why you shouldn’t wait longer than six months for culture conversion - All faculty</td>
<td>All Speakers</td>
<td>3092</td>
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</tr>
<tr>
<td>13:20</td>
<td>How should you treat your patients with limited treatment options? - All faculty</td>
<td>All Speakers</td>
<td>3093</td>
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<tr>
<td>13:35</td>
<td>Looking to the future - All faculty</td>
<td>All Speakers</td>
<td>3093</td>
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<tr>
<td>14:00 - 14:45</td>
<td>Amber 5+6</td>
<td>Session 316</td>
<td>Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis</td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:00</td>
<td>Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis</td>
<td>Rossana Vigliarolo (Roma (RM), Italy), Krisstopher Richard Flores (Poggio Mirteto (RI), Italy)</td>
<td>3138</td>
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</tr>
<tr>
<td>14:00 - 14:45</td>
<td>Amber 7+8</td>
<td>Session 317</td>
<td>Industry Skills Lab Workshop: Mucus Management with Simeox therapy in non-CF Bronchiectasis: from hospital to home</td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:05</td>
<td>Simeox therapy in non-CF Bronchiectasis: Indications and Recommendations</td>
<td>Joanna Milkowski-Dymanowska (Łódź, Poland)</td>
<td>3139</td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>Non-CF Bronchiectasis patients treated with Simeox therapy at Hospital and Home: Results of Multicentric Study</td>
<td>Aleksander Kania (Kraków, Poland)</td>
<td>3140</td>
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<tr>
<td>14:25</td>
<td>Importance of Mucus Clearance in Non-CF Bronchiectasis: Clinical Cases</td>
<td>Vittoria Comellini (Bologna (BO), Italy)</td>
<td>3141</td>
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<tr>
<td>14:35</td>
<td>Simeox Hands-on / Live Demonstration</td>
<td>All Speakers</td>
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**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)

15:30  
Real evidence, real impact: Boosting commercial value with digital programs that accelerate patient and physician outcomes  
Yury Rozenman (Madison, United States), Susa Monacelli (San Diego, United States), VJ Bala (San Diego, United States), Thomas Brown (Portsmouth, Hampshire, United Kingdom)

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**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)

15:30  
The importance of patient feedback and Patient-Reported Outcome Measures in patient care management  
Erna Sif Arnardóttir (Reykjavik, Iceland)

15:48  
Early experiences of Care Check-In as a patient feedback tool in CPAP therapy  
Sandrine Launois Rollinat (Paris, France)

---

**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)

17:30  
Opening and Introduction to Chronic Cough  
Federico Lavorini (Firenze (FI), Italy)

17:40  
How the Airway Acts to Protect Itself: Cough is Fundamental  
Jacky Smith (Manchester (Greater Manchester), United Kingdom)

17:55  
Extracellular ATP as an Alarmin: Mechanisms and Actions  
Pablo Pelegrin (Murcia, Spain)

18:05  
Chronic Cough and Refractory Chronic Cough: Extracellular-ATP Cough Signal  
Lorcan McGarvey (Belfast, United Kingdom)
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
Alberto Papi (Cona, Ferrara, Italy)

17:35  “Who’s at risk?”
Janwillem W. H. Kocks (Groningen, Netherlands)

17:50  Patient perspectives
Ruth Tal-Singer (Media, United States)

18:05  Prevention of RSV-LTRD
Alberto Papi (Cona, Ferrara, Italy)

18:35  Q&A panel discussion - All faculty
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 Miravitlles (Barcelona (CT), Spain)

17:30  Chairman’s introduction
Marc Miravitlles (Barcelona (CT), Spain)

17:40  LABA/LAMA combination: not just a simple bronchodilation
Claudio Micheletto (S.Giovanni Lupatoto, Italy)

18:05  Is it time for a more holistic approach in COPD?
Jutta Beier (Wiesbaden, Germany)

18:30  Chairman’s take home messages and conclusions
Marc Miravitlles (Barcelona (CT), Spain)

18:50  Q&A
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
Vanessa M. McDonald (Newcastle (NSW), Australia)

17:35  Winds of change in airways diseases
Fernando J. Martinez (New York, United States)

17:55  Treatable Traits in practice: Exploring the role of the multidisciplinary team
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?
Samantha Walker (London, United Kingdom)

18:45  Q&A - All faculty
All Speakers
### 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)

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<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Toxic partnership of air pollution and climate change on respiratory health</strong></td>
<td>Kian Fan Chung (London, United Kingdom)</td>
<td>3702</td>
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<tr>
<td>17:50</td>
<td><strong>Climate Change: Changing Respiratory Health</strong></td>
<td>Sundeep Santosh Salvi (Pune (Maharashtra), India)</td>
<td>3703</td>
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<tr>
<td>18:10</td>
<td><strong>Respiratory infections in post pandemic era</strong></td>
<td>Gary Wong (Shatin, Hong Kong)</td>
<td>3704</td>
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<tr>
<td>18:30</td>
<td><strong>Key lessons, outstanding questions, and future directions regarding climate change, infections and respiratory health in a post-pandemic world</strong></td>
<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
<td>3705</td>
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<tr>
<td>18:50</td>
<td><strong>Q&amp;A - All faculty</strong></td>
<td>All Speakers</td>
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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)

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<tr>
<td>17:30</td>
<td><strong>Welcome</strong></td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
<td>3707</td>
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<td>17:35</td>
<td><strong>Presentation of Patient Cases</strong></td>
<td>Vibeke Backer (Copenhagen, Denmark)</td>
<td>3708</td>
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<td>17:40</td>
<td><strong>Advancing Asthma Management Beyond Symptom Control</strong></td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
<td>3709</td>
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<tr>
<td>17:55</td>
<td><strong>Panel Discussion - All faculty</strong></td>
<td>All Speakers</td>
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<td>18:05</td>
<td><strong>How Achievable is Clinical Remission on Biologic Therapy?</strong></td>
<td>Francesca Antonietta Puggioni (Rozzano (MI), Italy)</td>
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<td>18:25</td>
<td><strong>Panel Discussion and Mini-debate - All faculty</strong></td>
<td>All Speakers</td>
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<td>18:40</td>
<td><strong>Type 2 Biomarkers as Predictive and Prognostic Tools to Guide Management</strong></td>
<td>Vibeke Backer (Copenhagen, Denmark)</td>
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<tr>
<td>18:48</td>
<td><strong>Panel Discussion and Q&amp;A - All faculty</strong></td>
<td>All Speakers</td>
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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. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)

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<tr>
<td>17:30</td>
<td><strong>Welcome and introduction to the faculty and symposium topics</strong></td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
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<td>17:32</td>
<td>Identifying unmet needs in rare lung diseases</td>
<td>Luca Richeldi (Roma, Italy)</td>
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<td>17:40</td>
<td>Challenges and progress in predicting disease trajectories. Part I: AATD</td>
<td>Noel Gerard McElvaney (Dublin, Ireland)</td>
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<tr>
<td>17:50</td>
<td>Challenges and progress in predicting disease trajectories. Part II: IPF</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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<tr>
<td>18:00</td>
<td>Camouflage: How asthma obscures the diagnosis of AATD</td>
<td>Filipa Costa (Coimbra, Portugal)</td>
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<tr>
<td>18:10</td>
<td>Discussion Part I</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
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<tr>
<td>18:20</td>
<td>Imaging challenges in lung fibrosis</td>
<td>Simon Walsh (London, United Kingdom)</td>
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<td>18:30</td>
<td>New tools to advance imaging in rare lung diseases</td>
<td>Elizabeth Estes (Saugatuck, United States)</td>
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<tr>
<td>18:40</td>
<td>Implications for management of rare lung diseases</td>
<td>Luca Richeldi (Roma, Italy)</td>
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<tr>
<td>18:50</td>
<td>Discussion Part II</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
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<tr>
<td>18:59</td>
<td>Summary and closing remarks</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
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### 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)

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<td>17:30</td>
<td>Welcome and introduction</td>
<td>Vincent Cottin (Lyon, France)</td>
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<td>17:35</td>
<td>Challenges and opportunities in recognising and managing patients with ILD</td>
<td>Vincent Cottin (Lyon, France)</td>
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<td>17:50</td>
<td>ILDs: diagnostic pathways and differential diagnosis</td>
<td>Wim A. Wuyts (Leuven, Belgium)</td>
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<td>18:05</td>
<td>Clinical evidence for the management of the rare disease ASMD</td>
<td>Maurizio Scarpa (Udine, Italy)</td>
</tr>
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<td>18:20</td>
<td>Pulmonologists perspective: management of pulmonary manifestations of the rare disease ASMD</td>
<td>Francesco Bonella (Düsseldorf, Germany)</td>
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<tr>
<td>18:35</td>
<td>Panel discussion, Q&amp;A - All faculty</td>
<td>All Speakers</td>
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ERS International Congress 2023

**INDUSTRY SESSIONS**

**MONDAY 11 SEPTEMBER, 2023**
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 Welcome and introduction  
Alberto Papi (Cona, Ferrara, Italy)  

07:20 Panel Discussion Pertussis in adults: should we be concerned? - All faculty  
All Speakers  

07:30 Panel Discussion The coughing adult: is pertussis a consideration? - All faculty  
All Speakers  

07:40 Panel Discussion Epidemiological data on pertussis in adults: a chicken and egg conundrum? - All faculty  
All Speakers  

07:50 Panel Discussion Adult immunisation for pertussis control: what are the challenges? - All faculty  
All Speakers  

08:00 Audience Q&A - All faculty  
All Speakers  

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 Insmed  
Chairs: Doreen Addrizzo-Harris (New York, United States)  

07:15 Welcome and Introductions  
Doreen Addrizzo-Harris (New York, United States)  

07:20 Taking Stock of the Burden of NCFBE  
Doreen Addrizzo-Harris (New York, United States)  

07:30 On the Path to Early NCFBE Diagnosis: Identifying Risk Factors and Employing Current Guidelines  
Pieter Goeminne (Bornem, Belgium)  

07:45 Improving Upon the Current NCFBE Standard of Care: The Role of Emerging Therapies Aimed at Inhibiting NSP Activation  
Stefano Aliberti (Milano (MI), Italy)  

08:05 Panel Discussion, Audience Q&A, and Closing Remarks - All faculty  
All Speakers  

Amber 7+8  
Session 373  
08:00 - 08:45  
Industry Skills Lab Workshop: HUMIDIFIED HIGH FLOW - CLINICAL INNOVATIONS  
Organised by FISHER&PAYKEL SAS - FRANCE  
Chairs: Stefano Nava (Bologna (BO), Italy)  

08:00 Effect of Asymmetric Cannula on PaCO2 for stable COPD Patients  
Lara Pisani (Bologna (BO), Italy)  

08:15 Danish Respiratory Guidelines for long-term Humidified High Flow Treatment  
Ulla Møller Weinreich (Ålborg, Denmark)  

08:35 The role of HHF on secretion management  
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 Interpretation of the Cardiopulmonary Exercise Test
Piergiuseppe Agostoni (Milan, Italy)

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 Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis
Giuseppe Paciocco (Monza (MI), Italy), Krisstopher Richard Flores (Poggio Mirteto (RI), Italy)

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 Co-chairs’ welcome and introduction
John R Hurst (London, United Kingdom)

12:20 Facing the challenges for healthcare in the 21st century: health equity, system resilience and the environment
Christine Jenkins (McMahons Point (NSW), Australia)

12:35 Paving the way for environmentally sustainable respiratory care
Alberto Papi (Cona, Ferrara, Italy)

12:50 Ensuring access to essential medicines: why partnership with governments and authorities is the only way to achieve patient-centric environmentally sustainable respiratory care
Omar S. Usmani (London, United Kingdom)

13:05 Audience Q&A / summary and close - All faculty
All Speakers

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 Introduction and welcome
Giorgio Walter Canonica (Milano (MI), Italy)

12:20 First ICS/LABA regimen for your moderate asthma patients – is it an obvious choice?
Dave Singh (Manchester, United Kingdom)

12:35 What predicts exacerbation risk in real life? FF/VI vs other ICS-containing regimens
Pierluigi L. Paggiaro (Pisa (PI), Italy)

12:50 Putting evidence into practice – a discussion and summary
Giorgio Walter Canonica (Milano (MI), Italy)

13:00 Q&A - All faculty
All Speakers
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** Welcome and introduction  
  Susanna Esposito (Milano (MI), Italy)

- **12:20** Pneumococcal disease in children in the post-pandemic era  
  Susanna Esposito (Milano (MI), Italy)

- **12:35** Unique challenges of pneumococcal disease prevention in adults  
  Francesco Blasi (Milan, Italy)

- **12:50** Understanding population-specific needs in pneumococcal vaccination  
  Mark van der Linden (Aachen, Germany)

- **13:05** Discussion and closing remarks - All faculty  
  All Speakers

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** Debate - All faculty  
  All Speakers

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** Welcome and Introductions  
  Jennifer Nuzzo (Providence, United States)

- **12:48** Recent history and future of viral pandemics  
  Gavin Smith (Singapore, Singapore)

- **13:03** Lessons learned: COVID-19 case study  
  Eva Polverino (Barcelona, Spain)

- **13:18** mRNA technology and preparing for the future  
  John McLaughlin (Wayne, United States)

- **13:33** Q&A session - All faculty  
  All Speakers

- **13:43** Conclusions and close  
  Jennifer Nuzzo (Providence, United States)

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** Welcome and introduction  
  David Price (Singapore, Singapore)

- **12:55** Panel discussion: How can we address the burden of unplanned hospitalisations?  
  Mona Al-Ahmad (Kuwait, Kuwait)
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<th>Organizer</th>
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<tr>
<td>13:10</td>
<td>Panel discussion: How can we integrate learnings from cardiology to improve hospital discharge and prevent readmission?</td>
<td></td>
<td>Mohit Bhutani (Edmonton (AB), Canada)</td>
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<tr>
<td>13:25</td>
<td>Panel discussion: Beyond acute care: how can we optimise transition of care?</td>
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<td>David Price (Singapore, Singapore)</td>
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<td>13:40</td>
<td>Summary and close</td>
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<td>David Price (Singapore, Singapore)</td>
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<td><strong>Amber 7+8</strong></td>
<td><strong>Session 467</strong></td>
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<tr>
<td>14:00</td>
<td>Industry Skills Lab Workshop: East meets West - global best practices</td>
<td>Organised by Erbe Elektromedizin GmbH</td>
<td>Chairs: Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)</td>
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<td><strong>Hands on</strong></td>
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<td>2 x transbronchial cryobiopsy, 2 x central airway obstruction</td>
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<tr>
<td>14:00</td>
<td>Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)</td>
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<td><strong>Amber 7+8</strong></td>
<td><strong>Session 482</strong></td>
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<td><strong>HHF improves breathing efficiency in COPD patient recovering from exacerbation.</strong></td>
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<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>15:45</td>
<td><strong>Benefit of long-term therapy with HHF in Bronchiectasis patients at home.</strong></td>
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<td>Giuseppe Fiorentino (Napoli (NA), Italy)</td>
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<td>16:00</td>
<td><strong>Go with the flow - Recent developments?</strong></td>
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<td>Jens Bräunlich (Leipzig, Germany)</td>
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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 (Cona, Ferrara, Italy), Christine Jenkins (McMahons Point (NSW), Australia)

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<td>09:00</td>
<td>Co-Chairs’ welcome</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
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<td>09:05</td>
<td>Defining trajectories of good lung health – how do we get everyone on track?</td>
<td>James Allinson (London, United Kingdom)</td>
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<tr>
<td>09:20</td>
<td>Panel discussion and Q&amp;A</td>
<td>Towards good lung health – what do we do now?</td>
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<tr>
<td>09:35</td>
<td>COPD: it’s not just about the lungs!</td>
<td>Mona Bafadhel (London, United Kingdom)</td>
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<tr>
<td>09:50</td>
<td>Panel discussion and Q&amp;A</td>
<td>How can we improve the management of COPD to reduce cardiopulmonary risk?</td>
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<tr>
<td>10:05</td>
<td>Summary and closing remarks</td>
<td>Christine Jenkins (McMahons Point (NSW), Australia)</td>
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