<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:30 - 11:00</td>
<td>Public: Opening press conference for Breathe Clean Air Milan</td>
</tr>
</tbody>
</table>

ERS International Congress 2023

DETAILED PROGRAMME
FRIDAY 08 SEPTEMBER, 2023
OSCE examination: Thoracic ultrasound training programme Part 3 - OSCE examination - by invitation only

**Aims:** By invitation ONLY

**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 Smensseim (Hoofddorp, Netherlands)

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<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td><strong>TUS Part 3 OSCE examination: Round 1</strong></td>
<td>Jouke T. Annema (Amsterdam, Netherlands), 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)</td>
</tr>
<tr>
<td>09:10</td>
<td><strong>TUS Part 3 OSCE examination: Round 2</strong></td>
<td>Jouke T. Annema (Amsterdam, Netherlands), 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)</td>
</tr>
<tr>
<td>10:20</td>
<td><strong>TUS Part 3 OSCE examination: Round 3</strong></td>
<td>Jouke T. Annema (Amsterdam, Netherlands), 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)</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>TUS Part 3 OSCE examination: Round 4</strong></td>
<td>Najib M. Rahman (ABINGDON, United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom), Dinesh Addala (Oxford, United Kingdom), Jouke T. Annema (Amsterdam, Netherlands), Steven Walker (Bristol (Avon), United Kingdom), Eihab Bedawi (Sheffield, United Kingdom)</td>
</tr>
<tr>
<td>13:40</td>
<td><strong>TUS Part 3 OSCE examination: Round 5</strong></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>
</tr>
<tr>
<td>14:50</td>
<td><strong>TUS Part 3 OSCE examination: Round 6</strong></td>
<td>Rahul Bhatnagar (Bristol, United Kingdom), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Jesper Rømhild Davidsen (Odense C, Denmark), Radhika Banka (Mumbai (Maharashtra), India), Casper Falster (Odense, Denmark), Lars Konge (Virum, Denmark)</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>TUS Part 3 OSCE examination: Round 7</strong></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), Eihab Bedawi (Sheffield, United Kingdom)</td>
</tr>
<tr>
<td>17:10</td>
<td><strong>TUS Part 3 OSCE examination: Round 8</strong></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), Rahul Bhatnagar (Bristol, United Kingdom)</td>
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<tr>
<td>18:20</td>
<td><strong>OSCE Round 9</strong></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), Rahul Bhatnagar (Bristol, United Kingdom)</td>
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**Purple Session 08:00 - 18:00**

**NEXT: Networking Excellence Training Programme (NEXT) - by invitation only**

**Aims:** By invitation only - The ERS NEXT programme provides a comprehensive training programme for ERS early career abstract presenters

**Chairs:** Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

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<tr>
<th>Time</th>
<th>Event Description</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>09:00</td>
<td><strong>Welcome and overview of the day</strong></td>
<td>Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France), Carlos Robalo Cordeiro (Coimbra, Portugal)</td>
</tr>
<tr>
<td>09:15</td>
<td><strong>Ice-breaker - ECMC</strong></td>
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</tbody>
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## ERS International Congress 2023

### Detailed Programme

**Saturday 09 September, 2023**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Presentation skills - Ubik media</td>
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<tr>
<td>10:00</td>
<td>Presentations skills - Breakout</td>
</tr>
<tr>
<td></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>11:20</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:45</td>
<td>Moderating sessions - Ubik Media</td>
</tr>
<tr>
<td>13:00</td>
<td>Mentoring lunch</td>
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<tr>
<td>14:30</td>
<td>Keynote: Manuscript writing and publishing</td>
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<td></td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>14:50</td>
<td>Manuscript writing/publishing - Breakout</td>
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<td></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>15:30</td>
<td>Panel discussion: Time management and work/life balance</td>
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<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>16:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>16:45</td>
<td>Leadership in respiratory medicine</td>
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<td></td>
<td>Mina Gaga (Athens, Greece)</td>
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<tr>
<td>17:15</td>
<td>Feedback and key take-home messages</td>
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<tr>
<td></td>
<td>Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)</td>
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### Studio (White) Session 08:30 - 08:45

**News from the studio: Welcome from chairs**

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

**08:30 Discussion and Q&A**

### Blue 1+2 Session 09:00 - 11:10

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

**Expanding your ultrasound skills beyond the pleura and lungs**

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

**Tag(s):** Clinical

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

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

**09:00 Welcome and introduction**

**09:10** Focused cardiac ultrasound (FoCUS)

Casper Falster (Odense, Denmark)

**09:40** Limited compression ultrasonography (LCU) of the deep veins for DVT assessment

Casper Falster (Odense, Denmark)

**10:10** Coffee break

**10:20** US assessment of the diaphragm

Søren Helbo Skaarup (Aarhus C, Denmark)

**10:50** Interactive case discussion session I

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

**Case-based skills workshop: Academy of paediatric respiratory medicine - Round 1 workshops**
### Chairs:
Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters and Details</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Introduction to the workshops</td>
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<tr>
<td>09:15</td>
<td>Endoscopy</td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
</tr>
<tr>
<td>09:15</td>
<td>Lung function tests</td>
<td>Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)</td>
</tr>
<tr>
<td>09:15</td>
<td>Imaging and ultrasound</td>
<td>Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)</td>
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#### Session 09:15 - 10:45

**Language session: Chinese Programme 2023**

**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)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:15</td>
<td>Vaccination and its protective role in COVID-19</td>
<td>Jieming Qu (Shanghai, China)</td>
</tr>
<tr>
<td>09:30</td>
<td>Lung cancer screening</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
</tr>
<tr>
<td>09:45</td>
<td>COPD Management in China: the current status, advance and challenge</td>
<td>Fuqiang Wen (Chengdu, China)</td>
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<tr>
<td>10:00</td>
<td>Tele-health in COPD management</td>
<td>Rebecca Disler (Melbourne, Australia)</td>
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<tr>
<td>10:15</td>
<td>Discussion and Q&amp;A</td>
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#### Session 09:30 - 13:00

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

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

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

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

**Tag(s):** Clinical

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters and Details</th>
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</thead>
<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>
</tr>
<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
<td></td>
</tr>
<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>
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<tr>
<td>10:20</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>Time</td>
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<td>Presenter &amp; Location</td>
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<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>
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<tr>
<td>10:50</td>
<td>Discussion and Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>Telemedicine for SDB diagnosis, treatment and follow-up</td>
<td>Johan Verbraecken (Edegem (Antwerp), Belgium)</td>
</tr>
<tr>
<td>11:20</td>
<td>Discussion and Q&amp;A</td>
<td></td>
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<tr>
<td>11:30</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Group assignment</td>
<td>Sophia E. Schiza (Heraklion, Greece), Manuel Sanchez De La Torre (Lleida, Spain), Johan Verbraecken (Edegem (Antwerp), Belgium), Esther Irene Schwarz (Zürich, Switzerland)</td>
</tr>
</tbody>
</table>

**Brown 3**

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

**Postgraduate course: PG5 The use of lung function in early detection of disease**

**Advances in lung function testing and the role for Artificial Intelligence**

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

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

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

**Tag(s):** Clinical

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

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

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

**Red 1+2**

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

**Postgraduate course: PG6 Mediastinal staging: The what and the how**
### Postgraduate course: PG2 Lung ageing in health and disease: From molecular mechanisms to (patho)physiological alterations

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

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

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

**Tag(s):** Basic science

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

**Chairs:** Mareike Lehmann (Marburg, Germany), Corry-Anke Brandsma (Groningen, Netherlands)
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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Overview of lung aging</td>
</tr>
<tr>
<td></td>
<td>Silke Meiners (Sülfeld, Germany)</td>
</tr>
<tr>
<td>09:45</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>09:55</td>
<td>The pros and cons of cellular senescence</td>
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<td></td>
<td>Serge Adnot (Creteil, France)</td>
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<tr>
<td>10:10</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>10:20</td>
<td>The epigenetic clock: a reprogrammable biomarker of ageing</td>
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<td></td>
<td>Ken Raj (United Kingdom)</td>
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<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>10:45</td>
<td>Telomeres and DNA damage</td>
</tr>
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<td>Jonathan Baker (London, United Kingdom)</td>
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<tr>
<td>11:00</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>11:10</td>
<td>Break</td>
</tr>
<tr>
<td>11:40</td>
<td>Aging of the immune system</td>
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<td>Speaker to be confirmed</td>
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<tr>
<td>11:55</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>12:05</td>
<td>Common drivers of ageing in COPD and comorbidities</td>
</tr>
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<td></td>
<td>Niki L. Reynaert (Maastricht, Netherlands)</td>
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<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>12:30</td>
<td>Group assignment: Pro/Con debate on Lung aging in health and disease</td>
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<td></td>
<td>Silke Meiners (Sülfeld, Germany), Serge Adnot (Creteil, France), Niki L. Reynaert (Maastricht, Netherlands), Ken Raj (United Kingdom), Jonathan Baker (London, United Kingdom), Speaker to be confirmed</td>
</tr>
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</table>

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

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

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

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

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

**Tag(s):** Clinical

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

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

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation?</td>
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<tr>
<td></td>
<td>Fida Charif (Beirut, Lebanon)</td>
</tr>
<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>10:00</td>
<td>Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE?</td>
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<td>David Jiménez Castro (Madrid, Spain)</td>
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<tr>
<td>10:20</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>10:30</td>
<td>Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop?</td>
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<td>Speaker to be confirmed</td>
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</tbody>
</table>
### Coral 3 Session 09:30 - 13:00

**Postgraduate course: PG4 Masterclass in asthma**

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

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

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

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Diagnosis of asthma</td>
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<tr>
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<td>Renaud Louis (Liège, Belgium)</td>
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<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>10:00</td>
<td>Assessing and monitoring asthma and its phenotypes</td>
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<tr>
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<td>Stylianos Loukides (Athens, Greece)</td>
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<tr>
<td>10:20</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>10:30</td>
<td>Pharmacological treatment and current controversies</td>
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<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
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<tr>
<td>10:50</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>11:00</td>
<td>Comorbidities in asthma</td>
</tr>
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<td></td>
<td>Florence Schleich (Liège, Belgium)</td>
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<tr>
<td>11:20</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>11:30</td>
<td>Break</td>
</tr>
<tr>
<td>12:00</td>
<td>Interactive cases by early career members</td>
</tr>
<tr>
<td></td>
<td>Augusta Beech (Manchester, United Kingdom), Renaud Louis (Liège, Belgium), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium), Mona Al-Ahmad (Kuwait, Kuwait)</td>
</tr>
</tbody>
</table>

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

**Primary care session: Working against tobacco and air pollution, the other big pandemic**

**Primary care in the best position to treat tobacco addiction and other negative environmental changes for respiratory health**

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

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Respiratory physiotherapist
### Chairs: Hilary Pinnock (Edinburgh, United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td><strong>The role of primary health care in scarce-resource environments</strong>&lt;br&gt;Speaker to be confirmed</td>
</tr>
<tr>
<td>09:45</td>
<td><strong>Not just a clinical problem. The role of public health departments and politicians</strong>&lt;br&gt;Joan B Soriano (Madrid, Spain)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Not only tobacco but biomass burning, pollution or carbon print</strong>&lt;br&gt;Sundeep Santosh Salvi (Pune (Maharashtra), India)</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Is vaping an effective treatment for cigarette dependence and does it promote nicotine addiction in non-smokers?</strong>&lt;br&gt;Peter Hajek (London, United Kingdom)</td>
</tr>
<tr>
<td>10:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
</tr>
</tbody>
</table>

### Amber 3+4 Session 10:00 - 10:45

**Case-based skills workshop: Academy of paediatric respiratory medicine - Round 2 workshops**<br>
**Chairs:** Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)

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

### Coral 1 Session 10:45 - 16:30

**Patient: ELF Patient Organisation Networking Day**<br>
**Chairs:** Kjeld Hansen (Oslo, Norway), Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00</td>
<td><strong>Welcome</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway), Mikaela Odemyr (Järved, Sweden)</td>
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<tr>
<td>11:10</td>
<td><strong>ERS President Address</strong>&lt;br&gt;Carlos Robalo Cordeiro (Coimbra, Portugal), Monika Gappa (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>11:20</td>
<td><strong>Introduction to session and speakers</strong></td>
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<tr>
<td>11:25</td>
<td><strong>Keynote speaker 1 - PPI in research</strong>&lt;br&gt;Michal Shteinberg (Haifa, Israel)</td>
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<tr>
<td>11:30</td>
<td><strong>Patient organisation presentations x 2 x 10 mins</strong></td>
</tr>
<tr>
<td>11:50</td>
<td><strong>Panel discussion and Q&amp;A</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway), Michal Shteinberg (Haifa, Israel)</td>
</tr>
<tr>
<td>12:10</td>
<td><strong>Breakout small discussion groups</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway)</td>
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<tr>
<td>13:00</td>
<td><strong>Plenary</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway)</td>
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<tr>
<td>13:15</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:00</td>
<td><strong>ELF awards: Best patient-centred abstract winners</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway)</td>
</tr>
<tr>
<td>14:15</td>
<td><strong>Introduction to session and speakers</strong>&lt;br&gt;Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland)</td>
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<tr>
<td>14:20</td>
<td><strong>Keynote: Mental Health &amp; Respiratory Disease: Chronic Obstructive Pulmonary Disease as prime example</strong>&lt;br&gt;Andreas Von Leupoldt (Leuven, Belgium)</td>
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<tr>
<td>14:40</td>
<td>Patient organisation presentations x 2 x 10 mins</td>
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<tr>
<td>15:00</td>
<td>Panel discussion and Question and Answer</td>
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<tr>
<td>15:20</td>
<td>Breakout small group discussion</td>
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<tr>
<td>16:10</td>
<td>Plenary</td>
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<tr>
<td>16:25</td>
<td>Take home messages</td>
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<td></td>
<td><strong>Amber 3+4</strong></td>
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<tr>
<td>11:00</td>
<td>Session</td>
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<td></td>
<td><strong>Case-based skills workshop: Academy of paediatric respiratory medicine - Round 3 workshops</strong></td>
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<td></td>
<td><strong>Chairs:</strong> Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
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<tr>
<td>11:00</td>
<td>Endoscopy</td>
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<td>11:00</td>
<td>Lung function tests</td>
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<td>11:00</td>
<td>Imaging and ultrasound</td>
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<td></td>
<td><strong>Blue 1+2</strong></td>
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<tr>
<td>11:10</td>
<td>Session</td>
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<tr>
<td></td>
<td><strong>Postgraduate course: PG1 Thoracic Ultrasound: Session II</strong></td>
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<tr>
<td></td>
<td>Thoracic ultrasound in specific clinical settings</td>
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<tr>
<td></td>
<td><strong>Disease(s):</strong> Interstitial lung diseases, Thoracic oncology</td>
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<td></td>
<td><strong>Tag(s):</strong> Clinical</td>
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<td></td>
<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Radiologist, Thoracic surgeon, Physician in Pulmonary Training</td>
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<td><strong>Chairs:</strong> Søren Helbo Skaarup (Aarhus C, Denmark), Radhika Banka (Mumbai (Maharashtra), India)</td>
</tr>
<tr>
<td>11:10</td>
<td>Use of thoracic ultrasound in an intensive care unit</td>
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<tr>
<td>11:40</td>
<td>Use of thoracic ultrasound in an interstitial lung disease clinic</td>
</tr>
<tr>
<td>12:10</td>
<td>Lunch break</td>
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<tr>
<td>12:40</td>
<td>Use of evidence-based training principles in thoracic ultrasound in a department</td>
</tr>
<tr>
<td>13:10</td>
<td>Interactive case discussion session II</td>
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<tr>
<td>13:30</td>
<td>Coffee break</td>
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<td></td>
<td><strong>Studio (White)</strong></td>
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<tr>
<td>11:15</td>
<td>Session</td>
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<td></td>
<td><strong>Language session: French programme 2023</strong></td>
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<td></td>
<td><strong>A joint ERS/SPLF session</strong></td>
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<tr>
<td></td>
<td><strong>Aims:</strong> This session will be delivered in French and translated in English.</td>
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<tr>
<td></td>
<td><strong>Disease(s):</strong> Respiratory infections, Thoracic oncology</td>
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<tr>
<td></td>
<td><strong>Tag(s):</strong> Clinical</td>
</tr>
<tr>
<td></td>
<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, General practitioner, Medical Student, Respiratory critical care physician, Physiologist, Scientist (basic, translational), Thoracic oncologist</td>
</tr>
<tr>
<td></td>
<td><strong>Chairs:</strong> Jesus Gonzalez Bermejo (Montlignon, France), Thomas Gille (Bobigny, France)</td>
</tr>
</tbody>
</table>
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)

Marc Humbert (Le Kremlin-Bicêtre, France)

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

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

Coral 4+5 Session 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

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

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

11:15 Obstructive sleep apnoea. Easy to identify and diagnose in primary care settings
Cláudia Sofia De Almeida Vicente Ferreira (Coimbra, Portugal)

11:30 Chronic cough. New algorithms to deal with this common condition
Imran Satia (Hamilton, Canada)

11:45 The importance of primary care in curbing antibiotic resistance
Oliver Van Hecke (Oxford, United Kingdom)

12:00 Interstitial lung disease. Never forget to think about it in primary care
Maria Molina Molina (Barcelona, Spain)

12:15 Discussion and Q&A

Amber 3+4 Session 13:00 - 13:45
Case-based skills workshop: Academy of paediatric respiratory medicine - Round 4 workshops

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

**Language session: Italian programme 2023**

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

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

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

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

**Tag(s):** Clinical

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosanti 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 fibrosanti / 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>
</tbody>
</table>

**14:15 Discussion and Q&A**

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

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

**Advanced thoracic ultrasound**

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

**Tag(s):** Clinical

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

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

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</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>
</tr>
<tr>
<td>14:40</td>
<td>Interactive case discussion session III</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
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### Amber 3+4 Session 13:45 - 14:30

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>13:45</td>
<td>Bronchial asthma and wheezing disorders</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)</td>
</tr>
</tbody>
</table>
### Red 1+2 Session 14:00 - 17:30

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

**Aims:**
- To discuss the best practices in noninvasive respiratory support therapies for patients with acute and chronic respiratory failure; to review new developments in noninvasive respiratory support therapies (from high-flow nasal oxygen therapy to noninvasive ventilation).
- To improve the success rate in acute hypoxemic respiratory failure.
- To optimize the patient-ventilator interaction.
- To assess the exercise response and exercise rehabilitation in clinical practice.

**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>Presentation</th>
<th>Speaker</th>
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</thead>
<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></td>
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<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>
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<tr>
<td>14:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td></td>
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<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></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></td>
</tr>
<tr>
<td>16:00</td>
<td><strong>Break</strong></td>
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</tr>
<tr>
<td>16:30</td>
<td><strong>Group assignment: How to improve the success of noninvasive respiratory support therapies</strong></td>
<td>Martin Dres (Paris, France), Annalisa Carlucci (San Donato Milanese (MI), Italy), Alexandre Demoule (Paris, France), Michelle Chatwin (London, United Kingdom)</td>
</tr>
</tbody>
</table>

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

**Postgraduate course: PG8 Advanced cardiopulmonary exercise testing**

**CPET in health and cardio-respiratory disease**

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

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

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

**Tag(s):**
- Clinical

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

**Chairs:**
- Pierantonio Laveneziana (Paris, France), William Stringer (Long Beach, United States)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:00</td>
<td>The pulmonary gas exchange response to exercise in health and disease</td>
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<td>Paolo Palange (Rome, Italy)</td>
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<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>14:30</td>
<td>Respiratory mechanics and exertional dyspnoea in health and disease</td>
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<td>Michele Schaeffer (Leuven, Belgium)</td>
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<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>15:00</td>
<td>Group assignment: Advanced cardiopulmonary exercise testing</td>
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<td></td>
<td>Paolo Palange (Rome, Italy), Michele Schaeffer (Leuven, Belgium),</td>
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<td></td>
<td>Pierantonio Laveneziana (Paris, France)</td>
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<tr>
<td>15:30</td>
<td>Break</td>
</tr>
<tr>
<td>16:00</td>
<td>Modalities available for assessing the exercise response and exercise</td>
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<td>rehabilitation</td>
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<td>Sally J. Singh (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>16:20</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>16:30</td>
<td>Exercise testing in children with respiratory diseases</td>
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<td></td>
<td>Erik H. J. Hulzebos (Utrecht, Netherlands)</td>
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<tr>
<td>16:50</td>
<td>Discussion and Q&amp;A</td>
</tr>
<tr>
<td>17:00</td>
<td>Group assignment: Advanced cardiopulmonary exercise testing</td>
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<tr>
<td></td>
<td>Sally J. Singh (Leicester (Leicestershire), United Kingdom), Erik H. J.</td>
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<td>Hulzebos (Utrecht, Netherlands), Pierantonio Laveneziana (Paris, France)</td>
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**Brown 1+2  Session  14:00 - 17:30**

Postgraduate course: **PG11 Cryotherapy in the paediatric airway**

**Indication and application of cryo-probes in the paediatric airway**

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

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

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

**Tag(s):** Clinical

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:00</td>
<td>New advantages in paediatric interventional bronchoscopy: cryotherapy</td>
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<tr>
<td></td>
<td>Alfin Vicencio (New York, United States)</td>
</tr>
<tr>
<td>14:20</td>
<td>Foreign body removal by means of cryocatheters</td>
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<td></td>
<td>Rhia Shah (New York City, United States)</td>
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<tr>
<td>14:40</td>
<td>Restoration of airway patency: indication and technique</td>
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<td>Erik B. Hysinger (Cincinnati, United States)</td>
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<td>15:00</td>
<td>Navigation of the probe: differences due to different probe sizes</td>
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<td>Sarabon Tahura (Dhaka, Bangladesh)</td>
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<td>15:20</td>
<td>Break</td>
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<td>15:50</td>
<td>Group assignment: Cryotherapy in paediatric airway</td>
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<td>Alfin Vicencio (New York, United States), Sarabon Tahura (Dhaka,</td>
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<td>Bangladesh), Rhia Shah (New York City, United States), Erik B.</td>
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<td>Hysinger (Cincinnati, United States)</td>
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**Coral 3  Session  14:00 - 17:30**

Postgraduate course: **PG10 Masterclass in chronic obstructive pulmonary disease**
Aims: to describe methods for diagnosing, assessing and managing patients with chronic obstructive pulmonary disease (COPD); to present methods for assessing and treating patients with different COPD phenotypes and monitoring the effects of treatment of COPD based on recent updates.

Disease(s): Airway diseases
Method(s): Cell and molecular biology General respiratory patient care Physiology
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist
Chairs: Apostolos Bossios (Stockholm, Sweden), Vanessa M. McDonald (Newcastle (NSW), Australia), Alexander Mathioudakis (Stockport, United Kingdom)

14:00 Diagnosis of COPD
Daiana Stolz (Freiburg, Germany)

14:20 Discussion and Q&A

14:30 Assessing and monitoring COPD and its phenotypes
MeiLan K. Han (Ann Arbor, United States)

14:50 Discussion and Q&A

15:00 Pharmacological treatment and current controversies
Konstantinos Kostikas (Ioannina, Greece)

15:20 Discussion and Q&A

15:30 Comorbidities in COPD
Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)

15:50 Discussion and Q&A

16:00 Break

16:30 Interactive cases by early career members
Alexander Mathioudakis (Stockport, United Kingdom)

Coral 2  Session  14:00 - 17:30
Postgraduate course: PG13 The joy and challenges of diagnosing interstitial lung diseases
ILD diagnosis 2023

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

Disease(s): Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology Pulmonary function testing
Tag(s): Clinical
Target audience: General practitioner, Nurse, Radiologist, Physician in Pulmonary Training, Adult pulmonologist/Clinician
Chairs: Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

14:00 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)

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

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

16:00 Break
16:15 The challenges to diagnose: cystic lung disease
Vincent Cottin (Lyon, France)

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

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

17:00 The grand finale: multidisciplinary case discussions
Michael Kreuter (Heidelberg, Germany), Marlies S. Wijzenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France), Lauren Troy (Camperdown (NSW), Australia), Julia Wälscher (Essen, Germany), Nicola Sverzellati (Parma (PR), Italy)

Brown 3 Session 14:00 - 17:30

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

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

Disease(s): Paediatric respiratory diseases  Respiratory critical care  Respiratory infections
Method(s): General respiratory patient care  Public health  Respiratory intensive care
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

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

14:00 Introduction

14:10 The Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia (REMAP-CAP)
Lennie P. G. Derde (Utrecht, Netherlands)

14:30 Discussion and Q&A

14:35 POS-VAP: implementation of clinical trials on VAP through an appropriate and flexible infrastructure
Ana Catalina Hernandez Padilla (Limoges, France)

14:55 Discussion and Q&A

15:00 The management of respiratory infections in primary care: POS-ARI-PC
Christopher Butler (Oxford (Oxfordshire), United Kingdom)

15:20 Discussion and Q&A

15:25 The lessons learned from COVID-19 pandemic: how to get prepared for the future
Herman Goossens (Edegem (Antwerp), Belgium)

15:45 Discussion and Q&A

15:50 Break

16:20 Group assignment: How to get a successful European project on respiratory infections
Lennie P. G. Derde (Utrecht, Netherlands), Christopher Butler (Oxford (Oxfordshire), United Kingdom), Herman Goossens (Edegem (Antwerp), Belgium), Ana Catalina Hernandez Padilla (Limoges, France)

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

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

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)

14:45 Non-CF bronchiectasis
Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)
14:45 Sleep disorders
Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)

Blue 1+2 Session 15:10 - 17:00
Postgraduate course: PG1 Thoracic Ultrasound: Session IV
Advanced ultrasound guided procedures
Disease(s) : Interstitial lung diseases, Thoracic oncology
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon
Chairs : Najib M. Rahman (ABINGDON, United Kingdom), Christian B. Laursen (Odense, Denmark)

15:10 Ultrasound guided biopsy of the pleura
Dinesh Addala (Oxford, United Kingdom)

15:35 Ultrasound guided biopsy of lymph nodes
Anand Sundaralingam (Oxford, United Kingdom)

16:00 Break

16:10 Ultrasound guided biopsy of the lung
Speaker to be confirmed

16:35 TUS for advanced procedure guidance
Steven Walker (Bristol (Avon), United Kingdom)

Studio (White) Session 15:15 - 16:45
Language session: Spanish/Portuguese programme 2023
Biological therapy in respiratory diseases. A joint ERS/ALAT/SBPT/SEPAR/SPP session
Aims : to provide an update on the usefulness of biological therapies for the main noninfectious respiratory diseases.
Disease(s) : Airway diseases, Interstitial lung diseases, Thoracic oncology
Method(s) : General respiratory patient care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Thoracic oncologist
Chairs : Carlos Robalo Cordeiro (Coimbra, Portugal), Francisco Arancibia Hernandez (Santiago de Chile, Chile), Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Francisco Garcia Rio (Madrid, Spain)

15:15 Biological therapy for severe asthma
Ignacio Zabert (Neuquén, Argentina)

15:30 Lung cancer: recent therapeutic advances
Margarida Carmona de Pinho Dias (Vila Nova de Gaia, Portugal)

15:45 Role of biological therapy for chronic obstructive pulmonary disease
Fco.De Borja Garcia-Cosio Piqueras (Palma de Mallorca, Spain)

16:00 Biologic treatments for interstitial lung diseases
Bruno Guedes Baldi (São Paulo (SP), Brazil)

16:15 Discussion and Q&A
07:15-08:15
INDUSTRY EARLY MORNING SYMPOSIUM  
SEE PAGE 1

Amber 3+4  
Session 08:00 - 10:20
Skills workshop: SW16 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
Method(s): Imaging  Physiology
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Respiratory critical care physician, Pathologist, Physician in Pulmonary Training, Physiologist, Radiologist

Chairs: Bouchra Lamia (Rouen- Le Havre, France)

08:00 Introduction

08:00 Assessment of diastolic function in COPD patients
Valentina Mercurio (Napoli, Italy)

08:00 Cardiac ultrasound assessment of right heart function
Paul M. Hassoun (Baltimore, United States)

08:00 Cardiac ultrasound for the management of pulmonary embolism
Mario Gerges (Vienna, Austria)

08:00 Hemodynamic consequences of non-invasive ventilation
Bouchra Lamia (Rouen- Le Havre, France)

Amber 1+2  
Session 08:00 - 10:20
Skills workshop: SW1 Pulmonary rehabilitation: extending practice to improve health outcomes — A personalized 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)

08:00 Introduction

08:00 Physical activity assessment and intervention
Heleen Demeyer (Leuven, Belgium)

08:00 Neuromuscular electrical stimulation: in who and how?
Lorna Latimer (Rugby (Warwickshire), United Kingdom)

08:00 How to improve balance and reduce falls in people undergoing pulmonary rehabilitation
Marla Beauchamp (Hamilton, Canada)

08:00 Implementing mindfulness interventions into pulmonary rehabilitation
Ingeborg Farver-Vestergaard (Vejle, Denmark)
08:00-08:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

PS-20 in poster area  Session  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

**Chairs:** Sylvia Hartl (Wien, Austria), Chair to be confirmed

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Cost-saving potential of BIO101 treatment in hospitalized adult patients with severe COVID-19.
Mounia Chabane (Paris, France), Waly Dioh, Serge Camelo, Sandrine Rabut, Rob Van Maanen, Stanislas Veillet

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A retrospective study on the association of COVID-19 vaccination status with hospital outcomes and costs (expenses) among patients admitted in a tertiary government hospital
April Calleja, Andre Angelo Tanque, Norman Maghuyop

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Estimating costs associated with paediatric Respiratory Syncytial Virus infection managed in the hospital setting in England.
Rebecca Butfield (Tadworth, United Kingdom), Jack Said

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A cost and environmental analysis of a vibrating mesh nebuliser
Amy Dymond (York, United Kingdom), Daniela A. Onso, Stuart Mealing

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Health, environmental, and societal impact of asthma care pathway in the UK: A cost-of-illness study
Martina Orlovic (Parma, Italy), Alessandra Madoni, Dimitrios Tzelis, Ines Guerra

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Cost effectiveness analysis of treatments for children with uncontrolled asthma symptoms despite taking inhaled corticosteroids
Giovanna Culeddu (Bangor, United Kingdom), Ian Sinha, Sarah Donegan, Michelle Maden, Sofia Cividini, Katie Rose, Olivia Fulton, Stephen Turner, Catrin Tudor Smith, Dyrig A. Hughes

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Development, validation and application of an asthma cost-effectiveness model for value assessment of digital inhaler adherence enhancing strategies

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Direct health care cost of Chronic Obstructive Pulmonary Disease (COPD) in Morocco: a cost of illness study.
Soumaya Benmaamar (FEZ, Morocco), Btissame Es-Sabbahi, Mohamed Teghi Heiba, Mohamed Omari, Ibtissam El Harch, Mohammed Youbi, Latifa Belakhkel, Loubna Abousselham, Hafid Hachri, Imane El Menchawy, Samira El Fakir, Mohammed Chakib Benjelloun, Nabil Tachfouti

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**ANALYSIS OF THE CLINICAL CHARACTERISTICS AND COMORBIDITIES OF PATIENTS WITH COPD AND HOME MECHANICAL VENTILATION**
Marina Galdeano Lozano (Montacada I Reixach (Barcelona), Spain), Adriana Martin Pascual, Carmen Fernandez Arias, Ariadna Ning Moranco Pallaruelo, Guillen Hernandez Guillamet Hernandez Guillamet, Francesc Lopez Segui, Agnes Hernandez Biette, Irene Aldas Criado, Antoni Marin Muniz, Monica Matute Villacis, Ignasi Garcia Olive, Jorge Abad Capa

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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

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

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

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

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PS-6 in poster area  Session  08:00 - 09:30
Poster session: From bench to bedside: translational studies in airway diseases
**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, Physiology, Public health, General respiratory patient care, Pulmonary rehabilitation, Imaging

**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 Perteveva, 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 Såtholm, 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 Rotrekl

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

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

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

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

**In vitro antibiofilm activity of hexylresorcinol lozenges against oropharyngeal pathogens**
Katja Hill (Cardiff, United Kingdom), Priyanka Sharma, Charlotte Richards, Jennifer Adams, Lydia Powell, Elaine Ferguson, Graucoutinho, Thomas Hallett, Anuradha Kallaykaran, David Thomas

**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.**
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Maria Ferraro, Valentina Lazzara, Paola Pinto, Filippo Catalano, Maria Rosaria Bonsignore

**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

**Eosinophil depletion decrease cardiovascular dysfunction in an emphysema with exacerbation rat model**
Axel Bellanger (Montpellier, France), Pierre Edouard Grillet, Isabelle Vachier, Quentin Wynands, Elodie Desplanche, Anne Virsolv, Fares Gouzi, Arnaud Bourdin, Olivier Cazorla
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

Late Breaking Abstract - Safety and Efficacy of RLS-0071 on Neutrophils and Inflammatory Mediators in a Phase-1b Inhaled LPS Study
Jens Hohlfeld (Hannover, Germany), Olaf Holz, Meike Müller, Saskia Carstensen, Linda Dell, Jessica Goss, Pamela Hair, Philipp Badorrek, Kenji Cunnion, Ulrich Thienel

PS-18 in poster area
Poster session: Interventional bronchoscopy: advances in probes, needles and more

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

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

** Chairs:** Peter I. Bonta (Amsterdam, Netherlands), Chair to be confirmed

Endoscopic aspergilloma management for non-surgical patients
Elaine Dumoulin (Calgary (AB), Canada), Christina Thornton, Chrystal Chan, Paul Maceachern, Christopher Mody

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

Does stent shape affect results in Post-Intubation Tracheal Stenosis?
Hanna Dawood (Athens, Greece), Nektarios Anagnostopoulos, Evangelia Koukaki, Andriana Papaioannou, Grigoris Stratakos

Prognostic factors after airway stenting for malignant tracheo- or broncho-oesophageal fistulas.

Diagnostic yield and safety of Trans-Bronchial Cryo-Biopsy from right upper lobe
Elad Guber (Kfar saba, Israel), Ayal Romem, Hadas Gilboa, David Shitrit

Endobronchial cryobiopsy shortens the time to cancer diagnosis.
Kristian Brat (Brno, Czech Republic), Nela Stastna, Michaela Heroutova, Ivan Cundrle Jr

Utility of cryobiopsy in peripheral pulmonary lesions for next-generation sequencing
Yuji Matsumoto (Tokyo, Japan), Hideaki Furuse, Tatsuya Imabayashi, Keiigo Uchiumi, Takaaki Tsuchida

Diagnostic utility and safety of non-intubated cryobiopsy using a 1.1-mm cryoprobe for peripheral pulmonary lesions
Toshiyuki Nakai (Osaka, Japan), Tetsuya Watanabe, Kauhiroh Yamada, Misako Nishimura, Atsushi Miyamoto, Yoshiya Matsumoto, Kenji Sawa, Kanako Sato, Kazuhisa Asai, Yuji Matsumoto, Yu Mikami, Tomoya Kawaguchi

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

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

Identification of EGFR mutations in transbronchial cryobiopsies
Sergio Alejandro Munchaca (TLALPAN, Mexico), Olivia Sanchez Cabralt, Cira Santillan Diaz

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

The safety and practices of performing endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) without an anaesthesiology team: experience from a tertiary centre
Grger Salai (Zagreb, Croatia), Robert Gecevic, Ivona Kovacevic, Ivan Marasovic, Darjan Ranilovic, Tajana Stoos Veic, Divo Ljubicic
Endobronchial ultrasound guided transvascular needle aspiration for lung tumor diagnosis
Maciej Gnass (Myślenice, Poland), Piotr Gniady, Agnieszka Knapczyk, Damian Czyżewski, Piotr Krudy, Alina Szymczyk, Piotr Kocoń, Artur Bartecek, Artur Szlubowski

High flow nasal cannula (HFNC) during EBUS TBNA – enough evidence so far? A real world study.
Sonja Badovinac (Zagreb, Croatia), Goran Glodic, Stela Majetić, Denis Baričević, Dražena Srđić, Filip Popović, Feda Džubur, Marta Koršić, Miroslav Samaržija

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 Sripasart, Virissorn Wongsrichanalai, Poonehavist Chantranuwatana, Nophol Leelayuwatanakul

Tissue coagulum clot cellblock from EBUS-TBNA for the diagnosis of necrotic lung and mediastinal lesions.
Chun Ian Soo, 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

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 Lavorini, Sara Tomassetti

Multicentric retrospective study on the implementation of CryoEBUS for the study of mediastinal lymphadenopathy.
Pere Trias Sabria (Barcelona, Spain), Virginia Pajares, Marta Plana, Marta Diez-Ferrer, Lara Piñan, Núria Baixeras, Pere Serra, Laura López Vilaró, Eduard Barrió, Carmen Centeno Clemente, Rachid Tazi-Mezailek, Felipe Andreo, Antoni Rosell Gratacós, Alfons Torrego, Salud Santos Pérez, Rosa López-Lisboa

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

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

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

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

Interstitial Lung Disease (ILD): Longitudinal exploration of patient experiences of home spirometry

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

The effectiveness of the Intensive Tobacco Cessation Programme: a multi-professional approach
Lucía Méndez González (Santa Maria da Feira, Portugal), Cristina Leite, Francisca Teixeira Lopes, Catia Caneiras, Jorge Ferreira
**Sind Post-COVID: Impact on Physical and Functional Respiratory Capacity**
Lucía Méndez González (Santa Maria da Feira, Portugal), Susana Pereira, Cristina Alves, Catia Caneiras, Filipa Ferreira, Jorge Ferreira

**Impact and clinical benefit of nebulized antibiotics in patients with chronic bronchial infection without cystic fibrosis**
Sally Santistevie Lostes (Ileida, Spain), Marcela Suarez, Esther Gracia-Lavedan, Alfredo Jover Saenz, Maria Zuil, Juan A. Schoenenerberger Arnaiz, Arturo Morales Portillo, Ferran Barbé, Jessica González

**Octreotide as a Therapeutic Option for Refractory Chronic Cough: A Retrospective Case Series**
Kayleigh Brindle (Cottingham, United Kingdom), Mengru Zhang, Natalie Carter, Alyn Morice

**Self-assessment of health in adult patients with cystic fibrosis after the introduction of triple CFTR modulator therapy**
Tihana Odobasic Palkovic (Zagreb, Croatia), Ivana Lalic Cickovic, Tomislava Milinkovic, Dolores Bzik, Gorana Levacic, Andreja Sajnic, Irena Godic, Andrea Vukic Dugac

**Transthoracic biopsy - importance and complications**
Ivana Lukić Franolić (Zagreb, Croatia), Sandra Karabatić, Andreja Šajnić

**Developing an audit tool for assessing suitability for self-administration of asthma biologic therapies.**
Paula Hallahan (Dublin 7, Ireland), Claire Sheridan

**Efficacy of respiratory training in pulmonary function of idiopathic pulmonary fibrosis: a Meta-analyses**
Javier Martín Núñez (Granada, Spain), Alba Navas Otero, Sofia Hernández Hernández, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Geraldine Valenza Peña, Marie Carmen Valenza

**The “vicious circle” of chronic cough. The patient experience – A qualitative synthesis.**
Kayleigh Brindle (Cottingham, United Kingdom), Alyn Morice, Carter Natalie, Dominic Sykes, Mengru Zhang, Andrea Hilton

**Endobronchial valve (EBV) treatment for emphysema: a qualitative study of patients’ expectations**
Camilla Askov Mousing (Randers SØ, Denmark), Ingeborg Farver-Vestergaard, Anders Lokke, Kathrine Bock, Thomas Decker Christensen, Morten Bendixen, Elisabeth Bendstrup, Lotte Hasling Kodbol Jørgensen, Karoline Litrup King

**Evaluation of outpatient clinic for non-malignant respiratory palliation - An interdisciplinary collaboration**
Stephanie Paag Svane (Odense C, Denmark), Sofie Lock Johansson, Ingrid Louise Titlestad, Mette Barlebo Froesig, Siri Stistrup Rasmussen, Sabine Gill, Helle Marie Christensen

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**PS-14 in poster area Session 08:00 - 09:30**

**Poster session: Bronchiectasis registries, cohorts and subgroups**

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

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

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

**The microbiology of bronchiectasis in Europe: Data from the European Bronchiectasis Registry (EMBARC)**
James D. Chalmers (Dundee (Angus), United Kingdom), Eva Polverino, Megan Crichton, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Pierre Regis Burgel, Charles Haworth, Michael Loebinger, Katerina Dimakou, Marlene Murris, Robert Wilson, Adam Hill, Rosario Menendez, Toni Torres, Tobias Welte, Francesco Blasi, Josie Altenburg, Michal Shteinberg, Wim Boersma, Stuart Elborn, Pieter Goeminne, Stefano Aliberti

**The airway microbiome in Bronchiectasis-COPD overlap: data from the EMBARC-BRIDGE study**
Holly R. Keir (Dundee (Angus), United Kingdom), Alison J. Dicker, Hollian Richardson, Ellie Kewin, Lidia Pereira Soriando, Jennifer Pollock, Yan H Giam, Megan Crichton, Hayoung Choi, Erin Cant, Simon Finch, Christopher J. Fong, Francesco Blasi, Amelia Shoemark, Oriol Sibila, Stefano Aliberti, James D Chalmers

**Inflammatory Endotypes, Microbiome and Exacerbation Risk in Bronchiectasis: A European Multicentre Study**
Amelia Shoemark (Dundee (Angus), United Kingdom), Hayoung Choi, Soorack Ryu, Holly Keir, Yan Hui Giam, Alison Dicker, Lidia Pereira, Hollian Richardson, Jeffrey Huang, Erin Cant, Francesco Blasi, Jennifer Pollock, Michal Shteinberg, Simon Finch, Stefano Aliberti, Oriol Sibila, James Chalmers

**The bronchiectasis exacerbation definition in a real-world setting: data from the EMBARC registry**
Mattia Nigro (Opera (MI), Italy), Megan Crichton, Pieter C. Goeminne, Natalie Lorent, Katerina Dimakou, Oriol Sibila, Rosario Menendez, Michal Shteinberg, Francesco Blasi, Tobias Welte, Eva Polverino, James D. Chalmers, Stefano Aliberti
International validation of the Bronchiectasis Health Questionnaire (BHQ): data from the EMBARC-BRIDGE study
Arietta Spinou (London, United Kingdom), Megan L. Crichton, Amelia Shoemark, Stefano Aliberti, Josje Altenburg, Francesco Blasi, Clare Clarke, Sanjaya H Chotirmall, Raja Dhar, Pieter Goeminne, Charles Haworth, Michael Loebinger, Natalie Lorent, Eva Polverino, Felix Ringshausen, Michal Shteinberg, Oriol Sibila, Tobias Welte, James D. Chalmers

Alpha-1 antitrypsin deficiency genotypes in a large international cohort study of bronchiectasis (EMBARC BRIDGE)
Felix C. Ringshausen (Hannover, Germany), Natalie Lorent, Anthony De Soyza, Oriol Sibila, Eva Polverino, Josje Altenburg, Megan L. Crichton, Michal Shteinberg, Pieter C. Goeminne, Francesco Blasi, Tobias Welte, Stefano Aliberti, Amelia Shoemark, James D. Chalmers

Bronchiectasis in Patients with Chronic Lymphocytic Leukemia
Ori Wand (Kfar Sava, Israel), Dovev Cohen, Alexandra Osadchy, Lilach Israeli-Shani, Keren Cohen-Hagai, David Shitrit

Clinical phenotypes of bronchiectasis exacerbation: data from the EMBARC exacerbation substudy
Mattia Nigro (Opera (MI), Italy), Megan Crichton, Pieter C. Goeminne, Natalie Lorent, Katerina Dimakou, Oriol Sibila, Rosario Menendez, Michal Shteinberg, Francesco Blasi, Tobias Welte, Eva Polverino, James D. Chalmers, Stefano Aliberti

Bronchiectasis as a prognostic factor in patients with alpha 1 antitrypsin deficiency?
Maria Beatriz Dias Ferraz (Porto, Portugal), Tiago Oliveira, Bárbara Ramós, Maria Sucena, Inês Sanches, Catarina Lacerda, Raquel Marçoa, Ivone Pascoal

Alpha1antitrypsine (AAT) in sputum: is it a useful biomarker in Bronchiectasis (BE)?
Letizia Traversi (Cittiglio, Italy), Ianire Gallego, Javier Perez-Miranda, Almudena Felipe, Antonio Alvarez, David Clofent, Mario Culebras, Maria Luiza De Souza Galvão, Karina Loor, Eva Polverino

A cohort series; referral bias and unmet needs in inflammatory bowel disease associated bronchiectasis
Georgia Tindle (Newcastle Upon Tyne, United Kingdom), Paul McCallion, John Davison, Katy Hester, Anthony De Soyza

Identification of a subgroup of non cystic fibrosis (CF) bronchiectasis patients with asthmatic traits
Roberta Pancani (PISTA, Italy), Valerie Wandaël, Giulia Lenzini, Davide Chimera, Francesco Pistelli, Federico Lorenzo Dente, Laura Carrozzo

A complete test panel avoids missed PCD diagnosis in adults with mild clinical phenotype
Doriane Calmés (Liège, Belgium), Noémie Bricmont, Bonhiver Romane, Guissard Françoise, Pauly Clara, Hougrand Olivier, Benchimol Lionel, Poirrier Anne-Lise, Docampo Martinez Elisa, Harvengt Julie, Jacquinet Adeline, Seghaye Marie-Christine, Louis Renaud, Kempeneers Céline

What are the radiological, microbiological and biochemical characteristics of bronchiectasis in alpha-1 antitrypsin deficiency? A systematic review
Joshua De Soyza (Birmingham, United Kingdom), Anita Pye, Daniella A. Spittle, Alice M. Turner

Evaluation of the quality of life in patients followed for bronchial dilatation at the Hassan II Hospital in Agadir
Khadija Ait nasser (Agadir, Morocco), Houda Moubachir, Hind Serhane

The Royal Brompton hospital adult primary ciliary dyskinesia (PCD) service: 2 years on
Stevie Peake (London, United Kingdom), Andrew Jones, Ricardo Jose, Elaine Shattock, Michael Loebinger

Sputum colour assessment and clinical outcomes in bronchiectasis: data from the EMBARC Registry

Mannitol vs Hypertonic saline in non-CF bronchiectasis, a systematic review, pairwise, and network meta-analysis of randomized control trials.
Mohamed H. Fathy (New Cairo, Egypt), Mahmoud A. Elnagar, Merihan A. Elbadawy, Ahmed K. Awad

Bronchiectasis associated to connective tissue diseases: a single-center experience
Anna Stainer (Vigevano, Italy), Andrea Gramegna, Edoardo Simonetta, Mattia Nigro, Marco Mantero, Margherita Ori, Francesco Amati, Stefano Aliberti, Francesco Blasi

Phenotypes in adult patients with bronchiectasis: a cluster analysis
Oxana Munteanu (Chişinău (Chişinău), Republic of Moldova), Doina Rusu, Aliona David, Leonid Onea, Victor Botnaru

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

PS-15 in poster area
08:00 - 09:30
Session
24
05.07.2023
**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

**Chairs:** George Margaritopoulos (London, United Kingdom)

**Early intervention of antifibrotics along with anti-inflammatory treatment in rapidly progressive interstitial lung disease (RP-ILD) with anti-MDA5 antibody-positive dermatomyositis (MDA5-DM)**

Tomohiro Bando (Seto, Japan), Yasuhiko Yamano, Reoto Takei, Hajime Sasano, Jun Fukihara, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Takeshi Johkoh, Juny Murakawa, Yasushi Kondoh

**Real-life multicentric national observational study of the use of nintedanib in systemic sclerosis-associated interstitial lung disease**

Vincent Koether (Lille, France), David Launay, Martine Reynaud Gaubert, Grégoire Prévot, Luc Mouthon, Raphael Borie, Kinan El Hussein, Paul Decker, Stéphanie Dirou, Elodie Blanchart, Amélie Leurs, Sabine Berthier, Xavier Delbrel, Marie Drel, Christian Agard, Eric Hachulla, Ana Nieves, Denise Aydindag, Snfmi Snfmi, Gfrs Gfrs, Orphalung Orphalung, Vincent Cottin, Yurdagul Uzunhan

**Sustained-release morphine for breathlessness in interstitial lung disease - a crossover study**

Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sabrina Bajwah, David Currow

**Real-world data from 24 UK centres for the use of nintedanib for progressive fibrosing interstitial lung disease**


**Nebulised pirfenidone in non-idiopathic pulmonary fibrosis (IPF) progressive pulmonary fibrosis (PPF): first look at FVC data**

Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deepthi Nair, Courtney Thompson, Felix Woodhead

**Outcomes in real-life nintedanib treatment of progressive fibrosing interstitial lung disease.**

Elisa Calzolari (Genova, Italy), Adriana Callari, Lavinia Martino, Nicola Lanzarone, Vitale Miceli, Patrizio Vitulo

**Role of nintedanib in the treatment of progressive pulmonary fibrosis (PPF) in daily clinical practice.**

Fatima Andres Francho (Sueca (Valencia), Spain), Ignacio Salvador Alvarez Martinez, Mario Andújar Llamazares, Daniel Segura Ayala, Elise Daviana Mennes Petersen, Luis Cabanes López, Laura Novella Sánchez, Jose Ramon Ferrando Gabarda, Maria Meseguer Sisternes, Inmaculada Luich Tortajada, Elsa Naval Sendra

**Real-world of Nintedanib in a Spanish non-IPF progressive pulmonary fibrosis cohort**

Vanessa Vicens Zigmunt (Castelldefels (Barcelona, Spain), Jaume Bordas-Martinez, Miriam Muñoz-Bolaño, João Carmezim-Correia, Ana Belén Llanos-González, Adrià Domingo-Carnice, Dolores Rodriguez-Cumplido, Guadalupe Bermudo-Peloche, Cristian Tebé-Cordomí, Roser Llop-Rius, Maria Molina-Molina

**Impact of oxygenation strategies on outcome in acute exacerbation of interstitial lung disease: A multicenter retrospective study**

Robin Thévenin (Rouen, France), André Gillibert, Nicolas Dognon, Mélanie Drucbert, Laurie Lagache, Mathieu Salaün, Antoine Cuvelier, Christophe Girault, Elise Artaud-Macari

**Efficacy of mycophenolate mofetil in fibrotic hypersensitivity pneumonitis treatment**

Ana Filipa Torres Silva (Raimonda, Portugal), Ana Cláudia Pimenta, Margarida Melo Cruz, Natâlia Melo, Patricia Caetano Mota, André Terras Alexandre, Helder Novais Bastos, Okana Skohatska, Susana Guimarães, Conceição Souto Moura, André Carvalho, Filipa Aguiar, Vanessa Santos, António Morais

**Progression and tolerance of patients with connective tissue disease-related interstitial lung disease (CTD-ILD) on rituximab treatment**

Ana Belén Llanos Gonzalez (La Orotava, Spain), José Carlos García Hernández, Sara García Gil, Elisa Trujillo Martín, Verónica Saray Hernández García, Paula Pérez De Armas, Nelson Mesa León, Juan Alfonso Bonilla Arjona, Marta Elena Gómez Gil, Maria García González, Maria Vanesa Hernández Hernández, José Federico Diaz González, Orlando Acosta Fernández

**Whole Lung Lavage for Pulmonary Alveolar Proteinosis: A Retrospective Analysis of 33 Cases**

Philippe Colares (São Paulo (SP), Brazil), Ana Avila, Paula D’Ambrosio, Roberta Sales, Helio Minamoto, Paulo Pego-Fernandes
Clinical, demographic and functional evaluation of patients with hypersensitivity pneumonitis and their comparison based on current diagnostic criteria

Guilherme Das Posses Bridi (São Paulo (SP), Brazil), Bianca Freire Da Silva, Marieta Cabral Amaral Da Cunha, Douglas Silva Queiroz, José Leomidas Alves-Jr, João Marcos Salge, Celso R F De Carvalho, Ronaldo Adib Kairalla, Rogerio De Souza, Bruno Guedes Baldi

Effect of vasodilator therapy on clinical and hemodynamics of patients with pulmonary arterial hypertension, connective tissue disease related pulmonary fibrosis

Sumaiya Hafiz (Abu Dhabi, United Arab Emirates), Naureen Khan, Hosam Alazazzi, Stuti Mulls, Hamdan Alawadhi, Jihad Mallat, Hani Sabbour, Khaleed Saleh

Online Mindfulness-Based Interventions (MBI) for palliative care: reducing dyspnea, depression, anxiety, and stress in patients with interstitial lung disease assisted at the UFMG University Hospital

Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Siliana Maria Duarte Miranda, Gabriela Patrus Ananias De Assis Pires, Andrew Nogueira Albuquerque Leal, Luiz Fernando Ferreira Pereira, Sara Pinho Cunha Paiva

Treatment and clinical course of hypersensitive pneumonitis – single center experience

Marko Banić (Zagreb, Croatia), Martina Batarilo Hadar, Dina Rnjak, Mateja Janković Makek, Dina Mihelčić Korte, Feđa Đžubur, Dubravka Pelicarić, Goran Glodić, Andreja Močan, Tea Lovrić, Lorna Ćorak, Miroslav Samražija, Ana Hećimović

Nintedanib for patients with CTD related pulmonary fibrosis: real-life data.

Eirini Vasarmidi (Heraklion (Crete), Greece), Pierre-Antoine Juge, Eleni Bibaki, Nikolaos Tzanakis, Raphael Borie, Philippe Dieude, Bruno Crestani, Katerina Antoniou

Real-life analysis of adherence to anti-fibrotic therapy in patients with progressive pulmonary fibrosis in Romania – a specialized center-based cohort study

Flavia-Gabriela Martis (Arad (Arad), Romania), Daniel Traila, Ovidiu Fira Mladinescu

Efzofitimod: a novel therapeutic candidate for SSc-ILD

Zhiwen Xu (San Diego, United States), David Siefker, Michaela Ferrer, Elizabeth Yu, Lauren Guy, Kaitlyn Rauch, Sofia Klop-Savino, Leslie Nangle

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

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

Response to biologics and clinical remission in the adult GAN severe asthma cohort.

Katrin Milger-Kneidinger (Munich, Germany), Hendrik Suhling, Dirk Skowasch, Annette Holtdirk, Nikolaus Kneidinger, Jürgen Behr, Hartmut Timmermann, Christian Schulz, Olaf Schmidt, Rainer Ehmnn, Marek Lommatzsch, Eckard Hamelmann, Marco Idzko, Christian Taube, Roland Buhl, Stephanie Korn

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

A real-life comparison of patients with severe eosinophilic asthma treated with benralizumab or mepolizumab

Torben Smidth-Hansen (Stavtrup, Denmark), Helle H Andersen, Lene M Pedersen, Tina Skjold, Johannes Schmid

Mepolizumab long-term safety in severe eosinophilic asthma

Ian Douglas Pavoid (Oxford (Oxfordshire), United Kingdom), Robert Chan, Peter Howarth, Martin Gilson, Robert G Price, Jorge F Maspero

Dupilumab may be beneficial for severe asthma patients with high FeNO And low blood eosinophil counts in real world observational study.

Tatsuhiko Uno (saitama prefecture, Japan), Yuki Hoshino, Tomoyuki Soma, Yoshitaka Uchida, Takeshi Asado, Reina Ishii, Kazuki Katayama, Hitoshi Iemura, Takahiro Uchida, Shun Shinomiya, Sachiko Miyauchi, Kazuyuki Nakagome, Hitodeshi Nakamura, Makoto Nagata

A modified COMSA score is a good tool to identify responders and non-responders to mepolizumab in severe asthma

Valentyna Yasinska (Rönninge, Sweden), Maria Sparreman-Mikus, Johan Kolmert, Lars I. Andersson, Andrei Malinovschi, Christer Janson, Barbro Dahlén, Sven-Erik Dahlén

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 Ehmnn, 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, Johanns Schmid

Factors predictive of poor adherence to treatment in patients with asthma
Aboubekr Imzil (Agadir, Morocco), Ossama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youness Essaid, Fatiha Bounoua, Khadija Ait Nasser, Houssame Enncar, Sofiya Farhat, Hanane Ikrour, 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 Feminche, 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 (Montréal, 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

Assessment 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), Mitsuru 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, Min Jeong, Min Ju Pyo, Keun-Ai Moon, Sin-Jeong Kim, Kyoomoon 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 Bañas Conejero, Geoffrey Chupp, Robert G Price, Alejandro Raimondi, Shiyuan 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 Schiffsers, Maarten Van Herck, Vivian Niehaus, Sonja Zehetmayer, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal
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 Tsuboshima, Takahiro Ochi

Patient reported outcome measures (PROMS) following multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgery.
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Ioannis Kyriensis, Elli Keramida, Elena Bellou, Fotis Kyriakou, Nikolaos Anastasiou

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

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

PROGNOSTIC FACTORS IN OPERATED THYMOMA.
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Ioannis Kyriakou, Konstantinos Potaris

Surgical management of neurogenic chest tumor
Kaouther Ben Amara (Ariana, Tunisia), Kaouther Ben Amara, Amina Abdelkebir, Habib Bessrour, Mahdi Abdennadher, Sarra Zairi, Hazem Zrbi, Adel Marghli

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

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?
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Elissavet Babaliari, Elli Keramida, Fotis Kyriakou, Panagiotis Demertzis, Konstantinos Potaris

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

Lung cancer screening "through" the COVID19 pandemic. A retrospective study.
Mariem Hadj Dahmane (Argenteuil, Tunisia), Abdou Rabi Richard, Bassel Dakhil, Patrick Bagan, Hanifa Boukhir

Hybrid surgical treatment of a complicated intralobar sequestration in an adult male
Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Stylianos Michelis, Anna Theodorou, Georgios Gkantinas, Evangelos Fergadis, Maria Trimandili, Theodoros Fouchyridis, Efthathio Metaxas, Ioannis Stamatatos, 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
Habib Bessrour (Ariana, Tunisia), Sarra Zairi, Nidhal Balloumi, Mehdi Abdennadher, Hazem Zrbi, Mariem Affes, Aida Ayedi, Sonia Ouerghi, Adel Marghli

A rare case of Pulmonary Lymphangioma
Shivalingamswamy Salimath (Bangalore (Karnataka), India), Harish G M, Sathish C, Anjali Parvathy, Nithin S Lal, Sanjai Narayanasamy

Surgery for primary mediastinal seminoma after chemotherapy: report of 3 cases
Kaouther Ben Amara (Ariana, Tunisia), Mahdi Abdennadher, Hazem Zrbi, Sarra Zairi, Amina Abdelkebir, Ameni Ben Mansour, Emma Brahem, Adel Marghli

Enlarged pneumonectomy for non-small cell lung cancer: 10-year experience
Asma Saad (Ariana, Tunisia), Mahdi Abdennadher, Takwa Abdelfatah, Hazem Zrbi, Amani Ben Mansour, Aida Ayadi-Kkaddour, Sarra Zairi, Adel Marghli

Sterno-clavicular joint infection: presentation and management
Sarra Zairi (Tunis, Tunisia), Chiraz Albouzidi, Mahdi Abdennadher, Emma Brahem, Nizar Fitouhi, Mariem Affes, Amina Abdelkabir, Hazem Zrbi, Sonia Ouerghi, Saoussen Hantous, Tahar Mestiri, Adel Marghli
**Poster session: Determinants of lung health**

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

**Method(s):** Epidemiology, Public health, Pulmonary function testing, Endoscopy and interventional pulmonology

**Chairs:** Om Prakash Kurmi (Coventry, United Kingdom), Abigail Whitehouse (London, United Kingdom)

- **Asthma in a region with high exposure to agricultural products**
  Youness Essaid (Agadir, Morocco), Houda Moubachir, Hind Serhane

- **Short-term association of environmental exposures with nitric oxide concentration in exhaled air**
  Lorena Torroni (Verona, Italy), Francesca Locatelli, Pierpaolo Marchetti, Sandra Baldacci, Claudio Gariazzo, Sara Maio, Mario Olivieri, Gianluca Spiteri, Massimo Stafoglia, Camillo Silibello, Giovanni Vieggi, Giuseppe Verlato, Alessandro Marcon

- **Long-term exposure to air pollution and risk of acute lower respiratory infections: evidence from the Danish Nurse Cohort**
  Jiawei Zhang (Copenhagen, Denmark), Youn-Hee Lim, Rina So, Laust H. Mortensen, George Maria Napolitano, Thomas Cole-Hunter, Stéphane Tuñíer, Marie Bergmann, Matija Maric, Seyed Mahmood Taghavi Shahr, Jørgen Brandt, Matthias Ketzel, Steffen Loft, Zorana Jovanovic Andersen

- **Green Areas and PM2.5 exposure could be associated with Asthma and COPD?**
  Francine Maria Almeida (São Paulo (SP), Brazil), Tiana Carla Lopes Moreira, Lucas Miranda Oliveira, Renato Fraga Righetti, Fernanda Degobbii Tenorio Quirino Santos Lopes, Airlene P Alencar, Nelson Gouveia, Thais Mauad, Paulo A Lotufo, Isabela Bensenor, Itamar Souza Santos, Iolanda Fátima Lopes Calvo Tibério

- **The gender-specific associations between greenness, air pollution and lung function in asthmatic patients**
  Tsu-Ñai Wang, Fang-Yu Kuo, Pei-Shih Chen, Yuan-Chung Lin

- **Global prevalence and determinants of chronic cough**
  Hazim Abozid (Wien, Austria), Jaymini Patel, Sylvia Hartl, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Emiel Fm Wouters, Andre F.S. Amaral

- **Effects of COVID-19 preventive measures on indoor air quality**

- **Air pollution and ethnicity associated with prevalence of small airways obstruction in a Caucasian population-based study**
  Brice Touilloux (Fribourg, Switzerland), Alessio Casutt, Cedric Bongard, Benoit Lechartier, Minh Khoa Truong, Christophe Von Garnier

- **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 Frohm, Jørgen Brandt, Francisco Gomez Real, Simone Accordini, Iana Markevych, Cecily Svanes, Ane Johannessen

- **Obesity and asthma incidence in individuals exposed to agricultural spaces**
  Ilaria Stanisci (Pisa, Italy), Anna Angino, Sofia Tagliaferro, Giuseppe Sarno, Giovanni Vieggi, 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 Adelisoye, 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 Samaržija, 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, Cattia C 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, Slajgiana 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 Bjerrehave Nielsen (Aalborg, Denmark), Signe Juul Riddersholm, Ulla Møller Weinreich

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

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

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

Selective inhibition of Histone deactylases 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

HS135, A Novel Activin and GDF Trap, is Highly Efficacious in Models of Group 1 and Group 2 Pulmonary Hypertension (PH)
Gauthier Schang (Montreal, Canada), Mathilde Poujol De Molliens, Emilie Brulé, Ariane Sours, Cristina Chauvet, Jean-François Denis, Vannakambdi Ganesh, Gilles Tremblay, Julia Schoelermann, Maureen O'Connor-Mccourt
Empagliflozin improves mitochondrial biogenesis and ameliorates vascular remodeling in experimental pulmonary arterial hypertension
Erik Duijvelaar (Amsterdam, Netherlands), Keimei Yoshida, Xiao-Qing Sun, Beaap Neep, Xiaoke Pan, Takayuki Jujo, Yu Yoshida, Jurjan Aman, Frances Sarah Handoko-De Man, Harm Jan Bogaard

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

The Fibronectin-Binding Integrins System as a Contributor to PAH Pathogenesis
Sarah-Eve Lemay (Quebec, Canada), Mónica S Montesinos, Yann Grobs, Tetsuro Yokokawa, Tsukasa Shimauchi, Sandra Breuils-Bonnet, Sandra Martineau, Alice Bourgeois, Mabrouka Salem, Charlie Theberge, Reem El Kabbout, Charlotte Romanet, Min Lu, Xinqiang Huang, James E Dowling, Adrian S Ray, François Potus, Steeve Provencher, Olivier Boucharat, Sébastien Bonnet

SMAD5 as a novel gene for familial pulmonary arterial hypertension
Ding Cao (Heidelberg, Germany), Yuriy Sirenko, Ganna Radchenko, Henning Gall, Ayat Ahmed, Susanne Theiß, Simon Haas, Memoona Shaukat, Zoe Saßmannshausen, Nicola Benjamin, Panagiota Xanthoulis, Satenik Harutyunova, Benjamin Egenlauf, Kattrin Hinderhofer, Ekkehard Grünig, Magdalena Laugsch, Christina Eichstaedt

Alpha-B crystallin regulates apoptosis in idiopathic pulmonary arterial 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

The matrikine Ac-PGP mediates the pathogenesis of pulmonary hypertension
Xin Xu (Birmingham, United States), Mojtaba Abdul Roda, Dongqi Xing, Jindong Li, Carmel McNicholas-Bevensee, Gregory A Payne, Liliana Viera, Rakesh Patel, J. Michael Wells, Gert Folkerts, J. Edwin Blalock, Amit Gaggar

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

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-19 in poster area
Session
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

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

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

The impact of pre-testing on post-test bronchoscopy competence in a simulation setting.
Eveline Gerretsen (Maastricht, Netherlands), Marleen Groenier, Erik Van Der Heijden, Walther Van Mook, Jouke Annema, Frank Smeenk

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

Flexible bronchoscopy course with simulation improves confidence for junior medical trainees
Harry Mitchell (London, United Kingdom), Rahul Mogal, Andrew Barlow
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, Alessandro Ghiani, Christoph Andritschky, Armin Schneider, Patrick Gehrig, Simone Britsch, Mascha O. Fiedler, Joachim Szecsenyi, Felix J.F. Herth

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 Lilke, Olaf Buntemeyer, Simone Janssen, Axel Kempa, Claus Neurohr, Armin Schneider, Joachim Szecsenyi, Elena Biehler, Thomas Fleischauer, Felix J.F. Herth, Julia D. Michels

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

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

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

Inhaler technique in a pediatric emergency department: Impact of an educational intervention among healthcare professionals in Greece
Elpis Hatzagiorgou (Panorama, Thessaloniki, Greece), Athina Karageorgiou, Fotios Kyrvasillis, Elisavet-AAnna Chrysochou, John Tsanakas

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 Behan, Myrofora Goutaki, Amelia Shoemark, Jeanette Boyd

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

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

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

The impact of COVID-19 on early career members (ECMs): an ERS ECM survey
Thomas Gille (Bobigny, France), Maxime Patout, Niki Ubags, Sheila Ramjug, Jana De Brandt, Tiago Alfarco, Merel Hellemans, Lowie E G Vanfleteren, Joana Cruz, Catharina C. Moor, Carolina Gotera, Orianne Dumas, Marc Humbert, Anita Simonds

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

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

Internationally use of objective structured clinical examination (OSCEs) in respiratory training: an ERS early career member survey
Etienne-Marie Jutant (Paris, France), Lucile Sese, Maeva Zysman, Thomas Gille, Jonathan Messika, Bernard Maître, Maxime Patout

PS-7 in poster area Session 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
Chairs: Louise Donnelly (London, United Kingdom)
Endothelial dysfunction markers in patients with chronic obstructive pulmonary disease
Olga Sadovenko (Kharkiv, Ukraine)

Phenotypes and cluster analysis as predictors of survival in a real-life COPD cohort (RETRO-POPE Study)
Vladimir Koblizek (Hradec Králové, Czech Republic), Branislava Milenkovic, Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr, Miroslav Ilic, Jelena Jankovic, Vojislav Cupurdija, Jiri Jarkovsky, Boris Popov, Arschang Valipour

Airway epithelial TSLP production is increased in COPD patients
Lynda SABER CHERIF (Reims, France), Maeva-A Devilliers, Jeanne-Marie Perotin, Julien Ancel, Delepine Gonzague, Myriam Polette, Gaetan Deslee, Valérien Dormoy

FENO50 stability over a 2-year period in relation to COPD outcomes
Marieann Högmøn (Uppsala, Sweden), Christer Janson, Andreas Palm, Björn Ställberg, Kristina Bröms, Karin Lisspers, Maria Härdstedt, Andrei Malinovschi

Airway epithelial TSLP production is increased in COPD patients
Lynda SABER CHERIF (Reims, France), Maeva-A Devilliers, Jeanne-Marie Perotin, Julien Ancel, Delepine Gonzague, Myriam Polette, Gaetan Deslee, Valérien Dormoy

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

Hyperkalemia is an underestimated risk factor in COPD: a retrospective study from two Phase 3 trials
Jakka Mäenpää (Möln达尔, Sweden), Isobel Anderson, Caroline A. Owen, Ulrika Emerath, Rod Hughes, Stefan Sultana, Ronan Heeney, Tomas Carroll, Mark Murphy, Noel Gerard Mcelvaney

Functional characterization of FoxP3+ regulatory T cells in Chronic Obstructive Pulmonary Disease
Anjana Talwar (Noida (Uttar Pradesh), India), Meghashree Sampath, Geetanjali Bade, Randeep Guleria, Sudip Sen, Anant Mohan

Comparison of stable state and historic blood eosinophil counts in COPD patients at the GOLD guideline thresholds.
Arun Prasad (North Shields, United Kingdom), Carlos Echevarria, John Steer, Stephen. C. Bourke

Blood-biomarkers to assess acute respiratory events (ARE) risk in COPD and chronic bronchitis (CB)
Jun Chen (, China), Yanqiu Wu, Tao Wang, Shuling Hu, Fuqiang Wen, Paul Jones, Nanshan Zhong

Associations between serum Humanin levels and outcomes in stable COPD.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Paula Martin-Audera, Juan Agüero-Calvo, Mayte Garcia-Unzueta, Bernardo Alio Lavin, Armando Raul Guerra, Ana Berja, Tamara Quijano, Cristina Ghabdan

Can we predict the prognosis of COPD with a routine blood test?
Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina

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

Dynamics of iron content in bronchoalveolar fluid in COPD patients
Alla Zuban (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Mariana Kulynych-Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Iryna Makoida, Olha Melnyk-Sheremeta

Study to analyze factors responsible for readmission within 90 days in COPD patients in tribal area of central India.
Rudrika Pushpraj Bhatle (Jabalpur, India), Sandeep Singh, Sanjay Bharty

The role of RNA binding proteins in eosinophilic COPD.
Ilektra Voulgareli (Αθηνα, Greece), Maria Semitekolou, Ioannis Morianos, Myrto Blizou, Spyridon Papiris, Georgios Hillas, Petros Bakakos, Stylianos Loukides

Novel spirometric parameters of the flow volume curve in COPD.
James Dean (Holmes Chapel, United Kingdom), Stephen Fowler, Dave Singh

Influence of tobacco-smoking on serum amyloid A (SAA) level in stable COPD patients.
Bohdana Basina (Dnipropetrovsk, Ukraine), Daria Koval

Clinical significance of serum oxidative stress in COPD patients
Keitaro Nakamoto (Tokyo, Japan), Masato Watanabe, Masaoki Saito, Keisuke Kasuga, Chika Miyaoaka, Yuki Yoshida, Aya Hirata, Hiroki Nunokawa, Junpei Aso, Yasuo Nakamoto, Manabu Ishida, Kojoiro Honda, Saori Takata, Takeshi Saraya, Masafumi Shimoda, Yoshiaki Tanaka, Mikio Satome, Ken Ohta, Haruyuki Ishii

Could red cell distribution width predict COPD severity?
Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina
PS-5 in poster area

Poster session: New insights in positive airway pressure therapy

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

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

Chairs: Matteo Bradicich (Zollikerkberg, Switzerland)

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

Usefulness of nocturnal oximetry (NOxi) following positive airway pressure (PAP) initiation
Clara Bianquis (Saint-Prix, France), Vanessa Bironneau, Cécile Londner, Carole Philippe, Inès Zaïen, Valérie Attali, Garance Vaillant, Bérénice Soyez, Stéphane Attard, Gum Suk Cabrillac, Isabelle Arnulf, Justine Frija-Masson, Maxime Patout

TRANSCUTANEOUS CAPNOGRAPHY AS A MONITOR OF POSITIVE AIRWAY PRESSURE TREATMENT
Jorge Rodriguez Sanz (ZARAGOZA (SPAIN), Spain), Maria Aguado Aguado, Marta Miranda Carpi, Luisa Margarita Cabrera Pimentel, Teresa Martín Carpi

Prevention of obstructive apnea events with machine learning
Hamed Hanafi (Halifax (NS), Canada), Julia Paffile, Meagan Sinclair, Kamal El-Sankary, Scott Lowe, Sageev Oore, Stephen Driscoll, Thomas Penzel, Ingo Fietze, Sanjay Patel, Reena Mehra, Debra Morrison

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

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

Evaluation of CPAP adherence in non-obese and obese obstructive sleep apnoea patients
Liam Chilton (Hull, United Kingdom), Harriet Hearne, Shoaib Faruqi

Factors influencing the CPAP therapeutic adherence in women with obstructive sleep apnea (OSA)
Bárbara Gracia Hernández (Huelva, Spain), Alberto Gonzalez Hernández, Ana Belén Rodríguez Gómez, Jessiva Ivana Hilares Vera

Compliance with continuous positive airway pressure in the military: a Tunisian study
Hana Mrassi (Tunis, Tunisia), Islam Mejri, Marwa Kacem, Chiraz Aichaouia, Samira Mhamdi, Zied Moatemri

Early predictors of long-term PAP compliance
Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce

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

Heathy adherer effect and positive airway pressure therapy of obstructive sleep apnea
Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizur, François Goupil, Thierry Pigean, Laurene Leclair-Visonneau, Philippe Masson, Aécy Bizieux-Thaminy, Nicole Meslier, Sandrine Kerbrat, Frédéric Gagnadoux

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

Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea
Amal Saidani (Bizerte, Tunisia), Fateh Kadardar, Sofiene Haboubi, Mouna Hacheni, Wiem Satouri, Hedi Ben Slima
Peak airflow-triggered adaptive servo-ventilation improves sleep structure of patients with heart failure and sleep apnea
Shoichiro Yatsu (Toronto, Canada), Christian M. Horvath, John S. Floras, Alexander G. Logan, Clodagh M. Ryan, T. Douglas Bradley

SUBJECTIVE HRQOL IN PATIENTS WITH SLEEP APNOEA SYNDROME WHO UNDERWENT PAP THERAPY IN A REHABILITATION SETTING: A FOLLOW-UP STUDY
Francesco Fanfulla (Pavia (PV), Italy), Antonia Pierobon, Martina Vigorè, Eugenia Taurino, Gemma Grassi, Valeria Torlaschi, Marina Maffoni, Rita Maestroni, Roberto Maestri

Sleep apnea and psoriasis: a multidisciplinary approach
Patrizia Pochetti (Vercelli, Italy), Beatrice Ragnoli, Beatrice Bacco, Ginevra Pertusi, Mario Malerba

Insights from a hospitalised domiciliary NIV (DNIV) population: the use of DNIV data.
Lynn McDonnell (London, United Kingdom), Stephanie Mansell, Rhiannon Parry, Swapna Mandal

Ventilation mask choice: development of a custom made test bench
Baptiste Rouchié (Bagneux, France), Clara Virbel-Fleischman, Yann Retory, Alexandra Schmidt, Giorgio Mattana, Benoit Piro, Emilie Bequignon, Bruno Louis, Steeve Reisberg

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-12 in poster area Session 08:00 - 09:30
Poster session: Best posters in respiratory physiotherapy

Disease(s) : Respiratory critical care Interstitial lung diseases Airway diseases Thoracic oncology
Method(s) : Pulmonary rehabilitation General respiratory patient care Public health Pulmonary function testing Transplantation

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

Effects of pulmonary rehabilitation on cough-related quality of life in people with chronic respiratory disease
Ana Sofia Brites Grave (Alcobaça, Portugal), Maria Aurora Mendes, Dina Brooks, Alda Marques, Ana Oliveira

Can we use creative dance as exercise training for chronic obstructive pulmonary disease? A randomized controlled trial
Meltem Kaya (İstanbul, Turkey), Hulya Nilgun Gurses, Fatmanur Okyaltırık

Effects of pulmonary rehabilitation in hematopoietic stem cell transplantation recipients: A randomized controlled study
Meral Bosnak Guclu (Ankara, Turkey), Selin Bayram, Gülşah Barğı, Zeliha Çelik

Effects of self-management interventions in people with interstitial lung disease - systematic review and meta-analysis
Ana Oliveira (Aveiro, Portugal), Steve Freitas Dos Santos, Alda Marques, Patricia Rebelo, Dina Brooks, Adam Benoit

Effectiveness of inspiratory muscle training in chronic respiratory diseases: an overview of systematic reviews of clinical randomised trials
Elena Gimeno-Santos (Barcelona, Spain), Rodrigo Torres-Castro, Saul Caicedo-Trujillo, Ruviñat Gutierrez-Arias, Xavier Alsina-Restoy, Luis Vasconcello-Castillo, Agustín R. García, Pamela Seron, Martijn Spruit, Isabel Blanco, Jordi Vilaro

The effect of incentive spirometry in addition to comprehensive chest physiotherapy on length of hospital stay and hemodynamic responses in patients with COPD exacerbation
Hilal Denizoglu Külli (İstanbul, Turkey), Meltem Kaya, Hikmet Uçgun, Melih Zeren, Fatmanur Okyaltırık, Hulya Nilgun Gurses

Effects of non-invasive ventilation on exercise performance in heart failure patients: a double blind, randomized cross-over trial
Rodrigo Torres Castro (Barcelona, Spain), Guillermo Mazzucco, Leonardo Intelangelo, Ana Lista-Paz, Paola Chichizola, Juan Pablo Escañante, Gonzalo Veiga, Leire Mendiluce-Ochandorena, Ane Arbillaga Etxarrri

Efficacy of community long-term ventilation for obstructive lung disease associated with chronic hypercapnic respiratory failure: a service evaluation
Bethan Clayton (Manchester, United Kingdom), Verity Ford, Aashish Vyas

Self-selected music listening during pulmonary rehabilitation in people with COPD: a multi-centre, randomised controlled trial.
Annemarie Lee (Melbourne (VIC), Australia), Stacey Butler, Peter Jung, Jeanette Tamplin, Imogen Clark, Roger Goldstein, Dina Brooks
Characteristics and benefits of responders to a behavioral intervention to increase physical activity in asthma: preliminary data from a pragmatic study
Fabiano de Lima (São Paulo, Brazil), Adriana Lunardi, David Pinheiro, João Victor De Souza, Rafael Stelmach, Rosana Agondi, Pedro Giavina-bianchi, Regina Carvalho-Pinto, Celso Carvalho

EFFECTS OF EXPIRATORY MUSCLE TRAINING IN PATIENTS WITH BRONCHIECTASIS
Ayşenur Yilmaz (Denizli, Turkey), Orçin Telli Atalay, Gökşel Altınışik

Comparison of the Effects of Video Game-Based Breathing Exercises and Conventional Breathing Exercises in Children and Adolescents with Non-Cystic Bronchiectasis
Hikmet Uçğun (Istanbul, Turkey), Hulya Nilgun Gurses, Erkan Cakir

Physical activity on physiotherapy days versus non-physiotherapy days after an AECOPD
Marieke Wuyts (Laeken, Belgium), Fien Hermans, Sofie Breuls, Stephanie Everaerts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters

The Borg Cycle Strength Test (BCST) for prescribing supramaximal high-intensity interval training (HIIT) in COPD
Jana De Brandt (Umeå, Sweden), Johan Jakobsson, Mattias Hedlund, Anna-Clara Rullander, Thomas Sandström, André Nyberg

A comparison of upper extremity functional capacity in lung transplant recipients and healthy controls
Ebru Çalış Kutukçu (Ankara, Turkey), Ulas Ar, Erdal Yekeler

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

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

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

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

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

PS-1 in poster area
Session 08:00 - 09:30
Poster session: Emerging evidence in COVID-19

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

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

COVID-19 and pregnancy: experience of observations in the perinatal center in 2021-2022 years
Natalia Kravchenko (Dnipro, Ukraine), Hanna Harahulia, Olha Cherkasova, Ludmila Havrysh, Kateryna Kaira

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

COVID 19 pneumonia in young subject: what’s special?
Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen ketata, Wafa Medi, Rahma Sellami, Racem Ammar, Hamida Kwas

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
Follow-up of COVID-19 survivors: 3 years after
NADA Boutbagha (Agadir, Morocco), Abdelkarim Khannous, Fatiha Bounoua, Sofia Farhat, Hannane Ikrou, Younes Essaid, Aboubaker Imzil, Oussama Halloumi, Khadia Aitnasser, Abdelmajid Oulahbib, Houssame Ennaceri, Houda Moubachir, Hind Serhane

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

Small airways obstruction is present in Covid-19 pneumonia’s acute period.
Immanuels Taivans (Riga, Latvia), Gunta Strazda, Normunds Jurka, Valentina Gordjushina

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 Jalan

Oxygenation Parameters as Predictors of Clinical Outcomes in Moderate Covid-19 Infection: A Retrospective Cohort Study
Eliezer James Aguila (Pasig, Philippines), Tim Trinidad

Two years mortality in patients with impaired glucose tolerance after COVID-19 pneumonia
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov

Factors associated with poor prognosis and increased costs in COVID-19 pneumonia
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov

SARS-CoV-2 pneumonia: contribution of the PSI score in the prediction of hospital mortality
Hend Ouertani (Tunis, Tunisia), Haifa Zaib, Khouloud Chaabi, Emna Ben Jemia, Jihen Ben Amar, Wafa Aissi, Hichem Aouina

Development of vanishing lung syndrome in patients with COVID-19 pneumonia
Galyna Gumeniuk (Kyiv, Ukraine), Viktoria Ignatieva, Mykola Gumeniuk, Maryna Polianska, Mykola Lynnyk, Svitlana Opiunik, Inna Zvol, Oleh Yakovenko

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

Predicting clinical worsening among hospitalized patients with COVID-19
Lancelot Pinto (Mumbai (Maharashtra), India), Pb Aswin, Ananya Prabhughate, Aditi Erande, Zair Udawadia, Jai Mullerpattan, Ayesha Sunavala, Radhika Banka, Pooja Mirchandani, Manali Kamble

Neutrophil/lymphocyte ratio and mortality of hospitalized COVID-19 patients: a cohort study
Robson Prudente (Botucatu (SP), Brazil), Estefânia Franco, Luiz Machado, Luis Brizola, Maércio Santos, Edris Savadkouhi, Camila Colombo, Mariana Dorna, Suzana Tanni

Small airways disease and lung parenchyma post COVID-19: 9 month follow up
Katarzyna Plewka-Barcik (Warsaw, Poland), Krzysztof Klos, Renata Rozynska, Ewa Pietruszka, Magdalena Zabicka, Marta Kania-Pudlo, Artur Malborski, Karina Jahnz-Rozyk, Andrzej Chcialowski

Contribution of chest tomography (CT) in the evaluation of post- covid-19 sequelae
Selsabil Dabousi (Tunis, Tunisia), Ameni Naourra, Samira Mhamedi, Safa Marzouki, Houda Snoussi, Chiraz Aichaouia, Zied Moetemri

The rs16969968 tobacco smoking-related single-nucleotide variant is associated with clinical markers in patients with severe COVID-19
Gloria Pérez Rubio (México, Mexico), Ramcés Falfán-Valencia, Daniela Valencia-Pérez Rea, Ingrid Fricke-Galindo, Ivette Buendia-Roldán, Leslie Chávez-Galán, Karol Nava-Quiroz, Jesús Alanis-Ponce

Diagnostic performance of D-dimer in pulmonary embolism in patients with COVID19
Haifa Zaib, Khouloud Chaabi, Hend Ouertani, Safia Othmani, Emna Ben Jemia, Jihen Ben Amar, Hana Hedhlí, Hichem Aouina

PS-3 in poster area Session 08:00 - 09:30
Poster session: Chronic obstructive pulmonary disease diagnosis and management in primary care
Disease(s) : Airway diseases, Respiratory critical care
Method(s) : General respiratory patient care, Epidemiology, Pulmonary function testing, Public health, Pulmonary rehabilitation
Sex differences in mortality among COPD patients: the French Palomb Cohort.
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouaalaya, Laurent Falque, Laurent Nguyen, Annaig Ozier, Alain Bernady, Émilie Berteaud, Julien Casteigt, Frédéric Le Guillou, Jean Moinard, Mohamed Staali, Cécilia Nocent, Mathieu Molimard, Chantal Raherison-Senjjen

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 Feuchtnner, 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 KHENNOUN (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), Steph Taylor, Marko Topalovic, Richard Russell, Rachel 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 (ENAXI study): an interim analysis
Gaëtan Deslee (Reims, France), Nolwenn Poccardi, Caroline Fabry-Vendrand, Delphine Leynaud, Gabriel Thabut, Caroline Etete-Pitaer, Adrien Coriat, Idir Ghout, Henri Lecle

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
Piyanwan Kuwalairat (Chumphon, Thailand), Soodrutarat Ratanapapas

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

Patient perspectives on treatment preference and adherence to treatment for chronic obstructive pulmonary disease
Miguel Román Rodríguez (Palma De Mallorca, Spain), Ilona Mcmullan, Michelle Warner, Christopher Compton, Raj Sharma, Ruth Tal-Singer, Meilan Han

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

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

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 Tsiouda, Anatoli Theodoridou, Ourania Kollsida, Aggeliki Rapti, Dimitrios Petridis, Konstantinos Porpodis, Georgios Babalis, Savvas Petanidis, Diamantis Chloros

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 Mepherson, Jane Moir, Donald Noble, Samuel Owusu Achiaw, Elaine Rankine, Bethany Stanley
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

Mortality and readmission after COPD exacerbation-related hospitalization: an individual patient data meta-analysis

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-2 in poster area  Session  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
Chairs : Audrey Borghi Silva (São Carlos (SP), Brazil)

CPET in Long COVID (LC) patients (pts) with dyspnea and fatigue
Paraskevi Katsanou (Athens, Greece), Archodoula Adonoglou, Adreas Asimakos, Stavroula Spetsioti, Pandelis Gounopoulos, Eleni Kostantinidou, Dimitris Spagoulakis, Stavros Patrinos, Adonis Kodaxakis, Aspasia Mavronassou, Martha-Spyridoula Katsarou

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

Effects of manual therapy and inspiratory muscle training on respiratory functions, fatigue and activities in children with muscular disease
Burcu İşkcı (ZEYTİNBURNU, Turkey), Ahu Gizem Akkuş, Yasemin Buran Çırák, Gül Deniz Yılmaz Yeľvar, Nurgül Dürüstcan Elbaş, Yunus Emre Tüntüneken, Kübra Kardesş

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 Médralin, Guillaume Prieur, Fairuz Boujibar, Thomas Similowski, Jean-François Muir, Antoine Cuelvier, Maxime Patout

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

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

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

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

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
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

Effect of Baduanjin combined with singing therapy on respiratory function of COPD patients
Qiao Qiao (Changchun, China), Hongjing Lin

Strength, effort tolerance and muscle fatigue in COPD patients under Long Term Oxygen Therapy: role of different obstruction severity
Alessandro Cavicchia (Verona, Italy), Michele Vitacca, Beatrice Salvi, Laura Bertacchini, Massimo Venturelli, Mara Paneroni

Immediate Effects of Thoracic Manual Therapy on Pulmonary Function in Stroke Patients
Yunus Emre Tutuneken (İstanbul, Turkey), Eminet Atici, Yasemin Buran Çırak, Kubra Kardes, Nurgül Dürüstkan Elbaşi, Burcu Isıkçı, Kenan Gül

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-Yañez, 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, Rocio Iglesias, Laura Carrizo, Martin 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 Fauández Silva, Paula Vera Tapia, Gonzalo Moscoso Altamira, Barbara Moyá Torres, Maria Jose Miranda Miño, Ignacio Oyarzun Aguirre

Biomarkers differentiating acute heart failure from COPD exacerbations: not much evidence
Sanne H B van Dijk (Einschede, Netherlands), Marjolein G J Brusse-Keizer, Charlotte C Bucsán, Eline H Ploumen, Wendy J C Van Beurden, Job Van Der Palen, Carine J M Doggen, Anke Lenferink

Investigation of Disease Status, Dyspnea Severity, and Disease Symptoms According to Exercise Habits in Patients with Chronic Obstructive Pulmonary Disease Completing Pulmonary Rehabilitation Program
Melissa Köprülüoğlu (İzmir, Turkey), İlknur Naz, Hulya Doğan Şahin

Findings from a modified six-minute walk test (m-6MWT) in patients attending the long COVID clinic
Emma Denneny (London, United Kingdom), Robert Chapman, Rebecca Evans, Ewen Brennan, Rebecca Livingston, Rebecca Gore, Helen Purcell, Jeremy Brown, 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-4 in poster area

Session 08:00 - 09:30
Poster session: New concepts in pulmonology

Poster(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

Chairs : Jonathan Baker (London, United Kingdom)

Alveomic fingerprinting of acute inflammation in the human lung
Stuart Dickson (Glasgow, United Kingdom), Antonella Pellicoro, Erin Gaughan, Thomas Craven, Jessica Ghobrial, Sarah Kelly, Ahad Abdalla, Hazel Stewart, Tarek Haloubi, Tom Michael Quinn, Bethany Mills, Renske Hoekstra, Manu Shankar-Hari, Kevin Dhaliwal

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

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, Rajender Nandigama, Clemens Ruppert, Andreas Guenther, Ali Önder Yildirim, Rajkumar Savai, Marek Bratkuhn, Grazyna Kwapiszewska

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

Nicola Compagnone (San Cipriano d'Aversa, Italy), Patrizia Rovere-Querini, Rebecca De Lorenzo, Cecilia Bussolari, Giacomo Pacioni, Giordano Vitali, George Cremona

Biomonitoring purposes of micronucleated alveolar macrophages in lung cancer screening
Svetlana Zunic (Beograd, Republic of Serbia)

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

Induction of epithelial cell 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 Koenighoff, 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 Kadefors, Linda Elowsson, José Carlos Rodriguez-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 Krasnodembskaya (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 Czechitzky, Louise Donnelly, Peter Barnes

Impaired STAT3 function increases susceptibility to LPS-induced lung injury in hyper-IgE syndrome
Verena Haefner (Neuherberg, Germany), David Kutschke, Carola Voss, Christine Hollauer, Christine Wolf, Ali Önder Yildirim, Renate Effner, Ellen Renner, Tobias Stoeger, Beate Hagl

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

Tartrate-resistant acid phosphatase activity and apoptotic clearance by alveolar macrophages of rabbits on an oil diet and with pulmonary emphysema
Snežana Zunic (Belgrade, Republic of Serbia), Svetlana Zunic

**PS-9 in poster area**

**Session**

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

**Chairs:** Chair to be confirmed
Characterisation and burden of eosinophilic granulomatosis with polyangiitis in European patients by disease phase
Lee Baylis (Apex, United States), Jeremiah Hwee, Lynn Huynh, Rafael Alfonso-Cristancho, Anamika Khanal, Mei Sheng Duh, Waseem Ahmed

Prevalence and disease burden of alpha-1 antitrypsin deficiency in Germany
Prasad Gawade (Boston, United States), Kuen-Cheh Yang, Ina Jacic, Christina Scirica, Zheng-Yi Zhou, Wenxi Tang

An update from the Irish national alpha-1 antitrypsin deficiency targeted detection programme
Ronan Heeney (Dublin, Ireland), Orla Cahalane, Ilaria Ferrarotti, Stefania Ottaviani, Geraldine Kelly, Cedric Gunaratnam, Gerry McElvaney, Tomás Carroll

Screening of alpha-1 antitrypsin mutations at the day hospital of pneumology with oral swab
Ana Mendes Silva (Barcelona, Spain), Paula Pujal, Astrid Crespo, Ingrid Solanes, Anna Pelegri

The incidence of sarcopenia is higher in the group of COPD subjects than non-COPD subjects
Chih-Ming Lin (Taipei, Taiwan), Jhih-Jhen Wu, Huan-Ting Lin, Shih-Wei Huang

Isolated small airways obstruction predicts future chronic airflow obstruction: Preliminary findings
Ben Knox-Brown (NEWMARKET, United Kingdom), James Potts, Cosetta Minelli, Jaymini Patel, Peter Burney, Andre Amaral

The trend of Medication use and Mortality in chronic obstructive pulmonary disease in Korea: A nationwide cohort study 2002-2013
Jinhyung Cho (Seoul, Republic of Korea), Young Sam Kim

Persistence of asthma from 8-28 years – a population-based cohort study
Linnéa Almqvist (Boden, Sweden), Martin Andersson, Helena Backman, Eva Rönmark, Lineea Hedman

Rhinovirus specific IgG responses and respiratory health in children and adults of the EGEA cohort
Marion Maucelin (Grenoble, France), Alicia Guillin, Katarzyna Niespodziana, Anne Boudier, Thomas Schlederer, Maja Bajic, Raphaël Vernet, Rachel Nadif, Jean Bousquet, Emmanuelle Bouzigon, Rudolf Valeta, Valérie Siroux

Sub-phenotypes and asthma outcomes by cluster analysis among elderly patients
Tsu-Nai Wang, Yu-Chun Lin, Meng-Chih Lin, Chao-Chien Wu

Maternal asthma during pregnancy and offspring type 1 diabetes – a Swedish population-based cohort study
Awad I. Smew (Stockholm, Sweden), Amanda Wikström, Cecilia Lundholm, Gustaf Rejnö, Bronwyn K. Brew, Catarina Almqvist

Sleep-related symptoms among asthmatics in the RHINESSA study
Rajesh Shigdel (Bergen, Norway), Ronas Shakya, Sarala Banjara, Eva Lindberg, Bryndís Benediktsdottir, Óssur Emilsson, Nils Oskar Jógi, José Luis Sánchez Ramos, Francisco Javier Callejas González, Cecile Svanes, Francisco Gomez Real, Chamara Senaratna, Vivi Schlünssen, Thorarinn Gislason, Randi J Bertelsen

Chronic OCS use and biologics uptake in asthma: real-world data (RWD) insights
Michael Cushion (Biggleswade, United Kingdom), Mary Brown

Genes involved in IL6-related pathways and asthma: the EGEA and FEAS studies
Laurent Orsi (Paris, France), Taina K. Lajunen, Patricia Margaritte-Jeannin, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Rachel Nadif*, Marie-Hélène Dizier*

The prevalence of severe asthma and severe eosinophilic asthma in Finland
Lauri Lehtimäki (Tampere, Finland), Arja Viinanen, Pinja Ilmarinen, Juha Mehtälä, Tero Ylisaukko-Oja, Juhana J Idänpään-Heikkilä, Hannu Kankaanranta

Association between SNPs in candidate genes and mixed granulocytic asthma in adults
Antonino Margagliotti (Verona, Italy), Lucia Calciano, Valentina Lando, Cristina Bombieri, Giovanni Malerba, Mario Olivieri, Simone Accordini

Depression from childhood to early adulthood and association with respiratory symptoms
Gang Wang (Stockholm, Sweden), Jenny Hallberg, Ellen Vercalsteren, Natalia Hernandez-Pacheco, Sandra Ekström, Bronwyn K Brew, Catarina Almqvist, Inger Kull, Anna Bergström, Erik Melén, Donghao Lu

Risk factors of early dying among in-hospital community-acquired pneumonia deaths
Ezequiel Pessoa (Lisbon, Portugal), Cristina Bárbara, Andréia Costa, Paulo Nogueira

Trends in outpatient azithromycin prescribing in respiratory diseases
Victor Pera (Rotterdam, Netherlands), Helen Panen, Maria A.J. De Ridder, Lies Lahousse, Guy G. Brusselle, Peter R. Rijnbeek, Katja M.C. Verhamme
The impact of the war in Ukraine on the prevalence of multidrug-resistant tuberculosis in Poland: an epidemiological overview and overview of countermeasures implemented.

Adam Nowinski (Warszawa, Poland), Askar Yedilbayev, Joanna Ladomirska, Andrei Dadu, Tatiana Makarevich, Stefan Wesołowski, Paloma Cuchi, Maria Korzeniewska-Kosela

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<th>PS-16 in poster area</th>
<th>Session 08:00 - 09:30</th>
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<td><strong>Poster session:</strong> Clinical problems in rare interstitial lung diseases</td>
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<td><strong>Disease(s):</strong> Intersitial lung diseases, Airway diseases, Thoracic oncology</td>
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<td><strong>Method(s):</strong> Epidemiology, General respiratory patient care, Imaging, Public health, Endoscopy and interventional pulmonology, Cell and molecular biology, Pulmonary function testing, Transplantation</td>
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<td><strong>Chairs:</strong> Clairelyne Dupin (Paris, France), Francesco Bonella (Düsseldorf, Germany)</td>
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**Epidemiology of diffuse interstitial lung disease in children in France: The RespiRare cohort**

**Is it possible to predict multisystem Langerhans cell histiocytosis with lung involvement based on radiological findings detected by computed tomography?**
Elżbieta Radzikowska (Warszawa, Poland), Maria Jeskiewicz, Katarzyna Blasinska, Jacek Wakulinski, Małgorzata Sobiecka, Elżbieta Wiatr, Monika Załęska, Renata Langfort, Iwona Bestry

**Drug-induced interstitial lung disease: insights from a referral center**
Vasilina Sotiropoulou (Patras, Greece), Panagiota Tsiri, Theodoros Karampitsakos, Matthais Katasers, Ourania Papaioannou, Tsirikos Georgios, Elettra Koulousousa, Eva Theohari, Ioannis Christopoulos, Dimitrios Komninos, Eili Malakoundidou, Eirini Zarkadi, Fotios Sampsonas, Argyrios Tzouvelekis

**Phenotype-genotype correlations of pediatric patients with biallelic mutations in ABCA3 and SFTPB surfactant-related genes**
Manon Fleury (Paris, France), Alice Hachdouel, Julie Mazeng, Nouha Jedidi, Camille Fletcher, Myriam Benhamida, Pierrick Cros, Christophe Delacourt, Jean-Christophe Dubus, Carole Egron, Ralph Epaud, Michael Fayon, Aude Forgeron, Lisa Giovannini-Chami, Caroline Perisson, Hortense Petat, Marie-Catherine Renoux, Léa Roditis, Caroline Thumerelle, Clémentine Vigier, Aurore Coulomb, Laureline Bertelot, Chiara Siléo, Alix De Becdelievre, Pascale Fanen, Marie Legendre, Camille Louvrier, Nadia Nathan

**Health related quality of life in childhood interstitial lung disease – an ERS Clinical Research Collaboration**
Elias Seidl (München, Germany), Mandy Niemitz, Sarah Stöhr, Nicolaus Schwerk, Martin Wetzke, Julia Carls, Joanna Lange, Katarzyna Krenke, Nagehan Emiralioglu, Nural Kiper, Matthias Griese

**Natural history and outcome of lymphangioleiomyomatosis in Ireland**
Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Helen O'Brien, Yasuhito Sekimoto, Amina Jouida, Michael Keane, Cormac McCarthy

**The value of multidisciplinary team meetings in the diagnosis and management of childhood interstitial lung disease among the RespiRare network**
Julie Cassibba (Paris, France), Lauren Bitton, Camille Fletcher, Manon Fleury, Céline Lustremant, Meryem Sari Hassoun, Sabrina Aberbache, Laureline Bertelot, Chiara Siléo, Marie Legendre, Camille Louvrier, Alix De Becdelievre, Alice Hachdouel, Ralph Epaud, Nadia Nathan

**Lower respiratory tract involvement in recurrent respiratory papillomatosis in a multicentric cohort study**
Thomas Maitre (Paris, France), Romy Ratshiorimanan, Mathieu Dusselier, Gilles Mangiaparan, Minh Triet Ngo, Nicolas Guibert, Clément Fournier, M Matar, Stéphane Jouneau, Arnaud Bourdin, Thomas Egenod, Delphine Wermert, Nicolas Favrot, Olivia Freynet, Valérie Gounand, Raphael Borie, Raffaele Caliandro, Jean François Boitiaux, Julie Manukian, Juliette Camuset, Marc Fortin, Vincent Cottin, Jean Michel Vergnon, Jacques Cadranel

**Clinical characteristics of diffuse cystic lung diseases at a national referral centre**
Helen O'Brien (Ratoath, Ireland), Cara Gill, Marissa O'Callaghan, Evelyn Lynn, Fiona Hickey, Jehangir Khan, Alessandro Franciosi, Michael P Keane, Cormac Mc Carthy
The European ILD Registry algorithm of self assessment (eurILDreg-ASA): pilot study data on prospective, patient-centered capture of symptom burden, quality of life, spirometry, oximetry and exercise capacity
Laurenz Claas (Kassel, Germany), Karen Moor, Maria Molina-Molina, Keerthana Siebert, Silke Tello, Rebecca Borton, Marlies Wijsenbeek-Loureens, Bruno Crestani, Andreas Guenther, Ekaterina Krauss

The diagnostic role of transbronchial lung cryobiopsy (TBLC) in Granulomatous-Lymphocytic Interstitial Lung Disease (GLILD) associated to Common Variable Immunodeficiency (CVID)
Ilaria Menichini (Roma (RM), Italy), Claudia Ravaglia, Sara Picciucci, Alessandra Dubini, Venerino Poletti

Radiological and genetic diversity of inherited ILDs revealed within a regional familial pulmonary fibrosis service
Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom), Helen Parfrey, Mostin Hu, Christine Fiddler, Eamonn Maher

Analysis of Clinical Characteristics of Connective Tissue Disease-Associated Interstitial Lung Disease in 225 Patients: A Prospective Study
Ketfi Abdelbassat (Alger, Algeria), Rama Touahrri, Cherifa Djouadi

Lung Transplant in hypersensitivity pneumonitis patients.
Carolina Santamaria Valencia (Maspalomas, Spain), Iovanna Socorro Ávila, Cristina Ayuela Lacaba, Myriam Aguilar Perez, Christian Garcia Fadul, Rosalia Laporta Hernandez

Diagnostic Criteria Arrangement in Nationwide All ILD Registry with Central MDD in Japan; PROMISE study
Yasuhiro Kondoh (Seto (Aichi), Japan), Taiki Furukawa, Ryo Teramachi, Hironao Hozumi, Takafulsi Suda, Tomoyuki Fujiwasa, Ryoko Egashira, Takeshi Johkoh, Junya Fukuoka, Masatake Kuwana, Takashi Ogura, Yasunari Miyazaki, Masashi Bando, Yoshikazu Inoue, Hiromi Tomioka, Yasuhiko Nishioka, Hirofumi Chiba, Masahito Ebina, Kazuya Ichikado, Naoyumi Hashimoto, Makoto Ishii

Clinical and radiologic differences between patients with combined pulmonary fibrosis and emphysema and a matched emphysema cohort
Tal Ardon (Tel Aviv, Israel), Omer Kersh, Ophir Freund, Tamar Shalmon, Tzilil Hershko, Amir Bar-Shai, Galit Aviram, Avraham Unterman

Diagnostic testing for GLILD in Common Variable Immunodeficiency: A Systematic Review
Heba M Bintalib (London, United Kingdom), Annick A J M Van De Ven, Joseph Jacob, Jesper R. Davidsen, Børre Fevanga, Leif G Hanitsch, John Routes, Marion Malphettes, Joris Van Montfrans, Paul J. Maglioned, Cinzia Milito, Klaus Warnatz, John R Hurst

Prevalence of lung cysts – are we missing incidental cystic lung disease?
Saher Sultan (Nottingham, United Kingdom), Michael Avoseh, Dominic Shaw, Simon Johnson

Level of information of patients with lymphangioleiomyomatosis – room for improvement!
Finn Wilkens (Heidelberg, Germany), Claudia Ganter, Catrin Ender, Heinrike 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

Coral 3  Session  08:30 - 10:00
Symposium: War, climate change, migration and respiratory infections
Aims: to discuss 1) the menaces the world is facing and how adaptive strategies can help to minimise health risks.; 2) policy interventions that can facilitate the mobility of people, enhance well-being and maximise social and economic development in both places of origin and destination

Disease(s): Airway diseases  Paediatric respiratory diseases  Respiratory infections
Method(s): Epidemiology  General respiratory patient care  Public health
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Radiologist, Respiratory physiotherapist, Journalist

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

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

08:45  Climate change and respiratory infections
Carlos Robalo Cordeiro (Coimbra, Portugal)

09:00  Effect of climate changes and migration on infection in the paediatric population
Marijke Proesmans (Leuven, Belgium)
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<tr>
<td>09:15</td>
<td>Coral 1</td>
<td>Symposium: Evolving concepts in the management of nonsmall cell lung cancer</td>
<td>Dennis Falzon (Genève, Switzerland)</td>
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<td>Discussion and Q&amp;A</td>
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**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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<td>08:30</td>
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<td>Choosing between new and established adjuvant regimens perioperatively</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>08:45</td>
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<td>Individualized surgical approach in thoracic lung cancer</td>
<td>Monica Casiraghi (Milan, Italy)</td>
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<tr>
<td>09:00</td>
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<td>Integrating systemic and local therapies in the management of oligometastatic NSCLC</td>
<td>Dragan M. Jovanović (Beograd, Republic of Serbia)</td>
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<td>09:15</td>
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<td>Innovative approaches for pleural effusion in lung cancer</td>
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**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)

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<tr>
<td>08:30</td>
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<td>Progressive pulmonary fibrosis. The burden of disease progression in fibrotic interstitial lung disease</td>
<td>Phil Molyneaux (London, United Kingdom)</td>
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<td>08:45</td>
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<td>Diagnostic challenges and biomarkers to profile progression. Time is gold</td>
<td>Anna Podolanczuk (New York, United States)</td>
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<tr>
<td>09:00</td>
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<td>Cellular and molecular mechanisms involved in progression of pulmonary fibrosis</td>
<td>Moises Eduardo Selman Lama (Mexico, Mexico)</td>
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<tr>
<td>09:15</td>
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<td>Therapeutic approach and challenges in PPF</td>
<td>Elisabeth Bendstrup (Aarhus N, Denmark)</td>
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<td>Discussion and Q&amp;A</td>
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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): 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), 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.

Coral 4+5 Session 08:30 - 10:00

Hot topics: Burden of tobacco farming and use of electronic nicotine delivery systems on the environment and occupational health

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

Disease(s): Airway diseases, Paediatric respiratory diseases.

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

Tag(s): Clinical.

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

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

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

08:45 Environmental damage caused by tobacco farming and manufacturing
Selin Çakmakçı Karakaya (Ankara, Turkey).

09:00 Global burden of tobacco use
Om Prakash Kurmi (Coventry, United Kingdom).

09:15 Greenwashing of the tobacco industry
Elif Dagli (İstanbul, Turkey).

09:30 Discussion and Q&A.

Purple Session 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.
**Gold Session 08:30 - 10:00**

### State of the art session: Airway diseases

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

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

**Disease(s):** Airway diseases

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

**Tag(s):** Translational

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

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

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<th>Time</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>
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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>
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<tr>
<td>09:00</td>
<td>Artificial intelligence and detection, classification and prognosis of thoracic malignancies</td>
<td>Nicola Sverzellati (Parma (PR), Italy)</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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**Session**

**Red 1+2**

**Oral presentation: Novelties in pulmonary hypertension management**

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

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

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Esther Jerita Nossent (Amsterdam, Netherlands)

**Late Breaking Abstract - A long-term follow-up (LTFU) study of sotatercept for pulmonary arterial hypertension (PAH)**

**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, Janeth De Oliveira Pena, Dominik Lautsch, Marius Hoeper

**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-Clausen

**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**
Hilde Jenssen Bjorkekjjer (Kristiansand, Norway), Cosimo Bruni, Patricia Carreira, Paolo Airò, Carmen Pilar Simeón-Aznar, Marie-Elise Truchetet, Alessandro Gioilo, Alexandra Balbir-Gurman, Mickael Martin, Christopher P Denton, Armando Gabrielli, Håvard Fretheim, Imon Barua, Helle Bitter, Øyvind Midtvedt, Torhild Garen, Kaspar Broch, Arne Andreassen, Yoshiya Tanaka, Gabriela Riemekasten, Ulf Müller-Ladner, Marco Matucci-Cerinic, Ivan Castellvi, Elise Siegert, Eric Hachulla, Oliver Distler, Anna-Maria Hoffmann-Vold

**Long-term outcome of patients with combined post- and precapillary pulmonary hypertension**
Anna Titz (Uster, Switzerland), Laura Mayer, Paula Appenzeller, Julian Müller, Simon R. Schneider, Michael Tamm, Andrei M. Darle, Sabina A. Guler, John-David Aubert, Fredéric 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, Aglia Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich

Discussion and Q&A

Yellow 1+2+3  Session  09:30 - 10:45
Oral presentation: Hot topics in intensive care medicine
Disease(s): Respiratory critical care  Airway diseases  Pulmonary vascular diseases
Method(s): Respiratory intensive care  Physiology  Cell and molecular biology
Chairs: Lieuwe D.J. Bos (Amsterdam, Netherlands), Ana Cysneiros (Lisboa, Portugal)

Late Breaking Abstract - CLUSTERING ARDS PATIENTS THROUGH THE FIRST DAYS OF ICU ADMISSION. Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Carles Forne, Lieuwe D. Bos, Marta Camprubi, Aina Aten, 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 Bermejo, Ferran Barbe, Antonio Artigas, Antoni Torres


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

Differences in nosocomial infections in patients on VV-ECMO for COVID-19 and Influenza. Clemens Wiest (Regensburg, Germany), Alois Filip, Mark Fleissmann, Maximilian Mafier, Christoph Fisser, Thomas Mueller, Lars Siegfried Maier, Florian Hitzenbichler, Barbara Schmidt, Dirk Lunz, Thomas Dienemann, Bernd Salzberger, Matthias Lubnow

Vilobelimab’s effect on mortality in severe COVID-19 ARDS patients: Phase 3 RCT. Endry Lim (Amsterdam, Netherlands), Alexander Vlaar, Dijlallii Annane, Martin Wittenrath, Michael Bauer, Leo Heunks, Bruno Mouvrillier, Vasquez Luis Hercilla, Tobias Welte, Pieter Van Paassen, Sanne De Bruins, Matthijs Brouwer, Pieter Tuimman, Jose Saraiva, Marx Gernot, Suzana Lobo, Rodrigo Boldo, Jesus Simon-Campos, Alexander Cornet, Anastasia Grebenyk, Johannes Engelbrecht, Maria Habel, Claus Thielert, James Dickinson, Bruce Burnett, Simon Ruckinger, Robert Zerbi, Dorothee Neukirchen, Renfeng Guo, Diederik Van De Beek, Niels Riedemann

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


Lung microbiota compositions differ between influenza, COVID-19 and bacteria-related acute respiratory distress syndrome. Renaud Prével (Bordeaux, France), Sébastien Imbert, Raphaël Enaud, Mathilde Revers, Arthur Orieux, Florian Lussac-Sorton, Adrian Camino, Alexandre Massri, Laurent Villeneuve, Cédric Carrié, Laurent Petit, Alexandre Boyer, Patrick Berger, Didier Gruson, Laurence Delhaes

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

Discussion and Q&A

Brown 3  Session  09:30 - 10:45
Oral presentation: Non-volitional assessment and new predictions in respiratory physiology
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
Chia Veneroni (Milano (MI), Italy), Alessandro Gobbi, Pasquale Pio Pompilio, Raffaele Dellaca, Salvatore Fasola, Stefania La Grutta, Agustin Leyva, Janos Porszasz, Silvia Romana Stornelli, Leonello Fuso, Christoph Valach, Robab Breyer-Kohansal, Chiarla 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, Pérez 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 Maria Rokx (Nijmegen, Netherlands), Jeanette B. Peters, Hieronymus W. H. Van Hees, Bram Van Den Borst, Alex J. Van 'T Hul, Hanneke A. C. Van Helvoort

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 Jakymeleit, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Oliver Rodgers, James Ball, Paul Hughes, Sitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Lorraine Hardaker, Timi Fihn-Wikander, Rod Hughes, Jim Wild

Weight associates positively with FeNO in adult females but not males in a large healthy population-based sample
Siân Williams (London, United Kingdom), Dermot Ryan, Janwillem Kocks, Jaime Correia De Sousa

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

Discussion and Q&A

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

Oral presentation: Improving respiratory care from a primary care perspective

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 respiratory care in primary care based on analysis of routine primary care data
Anthony Paulo Sunjaya (Sydney, Australia), Allison Martin, Gian Luca Di Tanna, Christopher Gianacas, Clare Arnott, Guy Marks, Christine Jenkins

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

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

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

11:15 Discussion and Q&A

Silver Session 10:15 - 11:45

Clinical trials session: ALERT 1

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

10:15

10:22

10:29

10:36 Wrap-up by discussant and discussion

10:58

11:05

11:12

11:19 Wrap-up by discussant and discussion

11:41 Closing remarks

Coral 3 Session 10:15 - 11:45

Journal session: Cystic fibrosis in the era of highly effective cystic fibrosis transmembrane conductance regulator modulator therapy
Highlights from The Lancet and The Lancet Respiratory Medicine

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

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

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

Tag(s): Clinical

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

Chairs: Rebecca Craven (London, United Kingdom), Andrew Bush (London, United Kingdom), Raquel Duarte (Porto, Portugal)
Gold Session 10:15 - 11:45
Clinical cases: Lungs on fire: airway diseases?

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

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

Tag(s): Clinical

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

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

10:15 Case 1 incl. panel discussion and Q&A - Author: L. Elsey (United Kingdom)
Emer Kelly (Dublin 4, Ireland)

10:37 Case 2 incl. panel discussion and Q&A - Author: B. Martins (Portugal)
Marc Miravitlles (Barcelona (CT), Spain)

10:59 Case 3 incl. panel discussion and Q&A - Author: O. E. Terzi (Turkey)
Emer Kelly (Dublin 4, Ireland)

11:21 Case 4 incl. panel discussion and Q&A - Author: H. Madsen (Denmark)
Marc Miravitlles (Barcelona (CT), Spain)

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

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

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

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

Tag(s): Clinical

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

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

10:15 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 Šhojaee (Richmond, United States)

11:00 Discussion and Q&A
10:30-11:45
INDUSTRY SKILLS LAB WORKSHOP  SEE PAGE 1

ERS Stand/World Village  Session  10:30 - 11:30
Public: Coffee and clean air - 1

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

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

Disease(s): Respiratory critical care
Method(s): Pulmonary rehabilitation  Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist
Chairs: Richard Costello (Dublin 9, Ireland), Anita Simonds (London, United Kingdom)

10:30  Pro  Leo Heunks (Amsterdam, Netherlands)
10:45  Con  Nicholas Hart (London, United Kingdom)
11:00  Discussion and Q&A

Amber 3+4  Session  10:40 - 13:00
Skills workshop: SW17 Cardiac ultrasound in the management of pulmonary disease

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

Disease(s): Pulmonary vascular diseases  Respiratory critical care
Tag(s): Clinical
Chairs: Paul M. Hassoun (Baltimore, United States)

10:40  Introduction
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 (Rouen- Le Havre, France)

Amber 1+2  Session  10:40 - 13:00
Skills workshop: SW2 Pulmonary rehabilitation: extending practice to improve health outcomes
A personalised medicine approach
Aims: to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

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

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

Tag(s): 
- Clinical

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

Chairs: Sarah Houben-Wilke (Horn, Netherlands)

10:40 Introduction

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)

Brown 1+2 Session

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

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!
Julie Maes (Leuven, Belgium), Ahmed Elmahy, 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

Machine learning can predict patterns of pulmonary function
Michael Tisi (Toronto, Canada), Joyce Wu, Zoltan Hantos, Shahrokh Valae, 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, Maximilian Thomas

Defining and grading an obstructive ventilatory disease: ATS/ERS interpretive strategies of 2005 vs 2021
Balsam Barkous (ARIANA, Tunisia), Khouloud Kchaou, Chaima Brika, Sirine Jamli, Soloua Ben Khamsa Jameleddine
Normative lung clearance index (LCI) values using a commercial open circuit washout device in children from White British and Indian Subcontinent ethnic groups
Christopher Hine (Birmingham (West Midlands), United Kingdom), Maya Desai, Elizabeth Sapey, Jane C Davies, Prasad Nagakumar

Normative reference equations for breathlessness intensity during CPET in people aged ≥40 years: the CanCOLD study
Magnus Ekström (Lund, Sweden), Pei Zhi Li, Hayley Lewhwaite, Jean Bourbeau, Wan Tan, Linus Schiöler, Andrew Broetto, Michael Stickland, Dennis Jensen

Discussion and Q&A

Blue 1+2 Session 11:00 - 12:15
Oral presentation: Risks of hospitalisation and mortality from chronic lung diseases
Disease(s): Airway diseases
Method(s): Epidemiology Public health Cell and molecular biology
Chairs: Om Prakash Kurmi (Coventry, United Kingdom)

Late Breaking Abstract - Colostrum microbiome and childhood allergy
Caroline Lodge (Melbourne (VIC), Australia), Adrian Lowe, Xin Dai, Michael Abramson, Dharmage Shyamali

Profiles of pregnancy and early-life urban and lifestyle exposures and respiratory health in children
Alicia Guillien (LA TRONCHE, France), Rémy Slama, Maribel Casas, Leda Chatzi, Montserrat De Castro, Berit Granum, Regina Grazuleviciene, Barbara Heude, Jordi Julvez, Norun Krog, Léa Maitre, Rosemary Mceachan, Mark Nieuwenhuijsen, Bente Ofedal, Catherine Thomsen, Jose Urquiiza, Marina Vafeiadi, John Wright, Martine Vrijheid, Xavier Basagaña, Valérie Siroux

Risk of asthma in offspring of asthmatic fathers versus mothers: A population-based study of 21,000 individuals in Denmark
Morten Dahl (Køge, Denmark), Suzan Al-Shuweli, Eskild M. Landt, Christina Ellervik, Henrik E. Poulsen, Ramar Mohankumar, Alexey Fedulov

Gabapentinoids and the risk of severe exacerbations in patients with chronic obstructive pulmonary disease
Alvi Rahman (Montreal, Canada), Sophie Dell’Aniello, Erica Moodie, Madeleine Durand, Janie Coulombe, Jean-François Boivin, Pierre Ernst, Christel Renoux

Long-term outcomes between adults with and without breathlessness: a UK cohort study
Urvee Karsanji (London, United Kingdom), Claire A Lawson, Emily Petherick, Jennifer K Quint, Kamlesh Khunti, Michael C Steiner, Rachael A Evans

Fetal exposure to vitamin D and risk of altered lung function and asthma throughout childhood: a meta-analysis of 14,000 children
Júlia Sangüesa (Sant Cugat del Vallès, Spain), Tarik Karramas, Mariona Bustamante, Dolores Pelegrí, Raquel Granell, Matt Boyton, Rachel Foong, Jennie Carson, Rae-Chi Huang, John Curtin, Martine Vrijheid, Maribel Casas, Liesbeth Duijts

Treatment intensity level as a proxy for severity of COPD: A nationwide cohort study
Marie Dam Lauridsen (Århus N, Denmark), Emil Fosbol, Soren Paaske Johnsen, Ulla Weinreich Møller, Jan Valent

Respiratory symptom clusters and cause-specific mortality in a representative adult population
Danni Lisl (Gothenburg, Sweden), Lowie Vanfleteren, Rani Basna, Linnea Hedman, Linda Ekerljung, Fredrik Nyberg, Göran Wennergren, Anne Lindberg, Hannu Kankaanranta, Eva Rönmark, Bright Nwaru, Helena Backman

Long-term air pollution exposure and risk of SARS-CoV-2 infection: A UK-wide cohort study
Hajar Hajmohammadi (London, United Kingdom), Mohammad Talaei, Daniela Fecht, Wei Yi Wang, Giulia Vivaldi, Sian Faustini, Alex Richter, Seif Shaheen, Adrian Martineau, Aziz Sheikh, Ian Mudway, Christopher Griffiths

Lifetime body mass index trajectories and lung function and chronic obstructive pulmonary disease in the Tasmanian longitudinal health study (TAHS)
Gulshan Ali (melbourne, Australia), Dinh Bui Bui, Haydn Walters, Jennifer Perret, Bircan Erbas, Paul Thomas, Caroline Lodge, Garun Hamilton, Bruce Thompson, David Johns, John Hopper, Gayan Bowatte, Michael Abramson, Adrian Lowe, Shyamali Dharmage

Discussion and Q&A

Brown 3 Session 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

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

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**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 Lønninga, Aase Bengaard Andersen, Christian Morberg Wejsø, Victor Naseloth Dahl

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**Tuberculosis drives impaired lung function: a systematic review and meta-analysis**

Sharejna Ratnakumar (London, United Kingdom), Sally Hayward, Emma Denny, Lucy Goldsmith, Rebecca Evans, William Checkley, Delia Goletti, Caterina Ong, Mateusz Gotowiec, Junkai Zhu, Jon Friedland, Joanna Porter

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**Relationship between metformin use and mortality in tuberculosis patients with diabetes: a nationwide cohort study**

Eun Ki Chung (Seoul, Republic of Korea), Dawoon Jeong, Jeonghak Mok, Doosoo Jeon, Hye-Yeon Kang, Heejin Kim, Hkeesun Kim, Hongjo Choi, Young Ae Kang

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**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, Pranabalashis Haldar

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**Programmatic management of bedaquiline-pretomanid-linezolid regimens in Georgia.**

Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Tamar Togonidze, Lali Mikashvili

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**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

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**Discussion and Q&A**
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 Aucrco Zimermam, Danilo Tadao Wada, Andrea De Cássia Vernier 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, Clo Riiibbens, Béatrice André, Renaud Louis,leticia Gallardo Estrella, Jonne Engelbergs, 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, Patricia Caetano Mota, David Coelho, Melany Gonçalves, Andrea Coelho, Oksana Sokhata, Marilia Beltrão, Susana Guimarães, Conceição Souto Moura, André Carvalho, Luís 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 Bjørkekjær, Mike Becker, Cathrine Brunborg, Cosimo Brunio, Phuong Phuong Diep, Ruscandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Óyvind Midveldt, Carina Miha, Óyvind Molberg, Olivier 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. Gislé Jenkins, Philippe Dieue, Cosetta Minelli

Discussion and Q&A

Yellow 1+2+3 Session 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

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

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

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

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

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

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

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

**Lung regeneration for inherited interstitial pulmonary fibrosis using a novel combinatorial AAV gene therapy**
Pauline BARDIN (Paris, France), Liqun Xu, Yanlong Pei, Kennedy Nangle, Arul Vadivel, Shumei Zhong, Emily Martin, Tim Weaver, Sarah Wootton, Bernard Thébaud

**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

**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, Maëva Zysman, Patrick Berger, Isabelle Dupin

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**Discussion and Q&A**

### Studio (White) Session 11:45 - 13:20

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

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

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Journalist

**Chairs:** Monika Gappa (Düsseldorf, Germany), Susanne Vijverberg (Amsterdam, Netherlands)

11:45 Asthma care in low-resource settings: towards solutions
Refiloe Masekela (Pretoria, South Africa)

12:00 Imaging in paediatric respiratory diseases: where are we now?
Pierluigi Ciet (Rotterdam, Netherlands)

12:15 Discussion and Q&A

12:30 Break

12:35 Primary ciliary dyskinesia: diagnosis and management
Amelia Shoemark (Dundee (Angus), United Kingdom)

12:50 Preterm birth and long-term consequences
Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)

13:05 Discussion and Q&A

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**12:15-13:15**

**INDUSTRY LUNCHTIME SYMPOSIUM**

**PS-1 in poster area Session 12:30 - 14:00**

**Poster session:** Rehabilitation of chronic respiratory diseases
**Disease(s)**: Airway diseases, Interstitial lung diseases, Thoracic oncology

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

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

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

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

**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 Fernades De Carvalho, Kaire Alves De Araujo, Fabiola Matos Da Cruz, Rosana Câmara Agondi, Milton Arruda-Martins, Iolanda De Fátima Lopes Calvo Tibério, Beatriz Manguereira Saraiva-Romanholo

**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

**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 Zaouali, Yassine Trabelsi

**Comparison of the effects of pulmonary and cognitive telerehabilitation in severe COPD**
Amine Atac (Istanbul, Turkey), Esra Pehlivan, Furlya Senem Karaahmetoglu, Zeynep Betul Ozcan, Halit Cinarka, Mustafa Cakruct, Kursad Nuri Baydilli, Erdogan Cetinkaya

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

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

**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**
Pavl 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 Brightton (London, United Kingdom), Catherine J Evans, Morag Farquhar, Katherine Bristowe, Aleksandra Kata, Jade Higman, Margaret Ogden, Claire M Nolan, Deokhee Yi, Wei Gao, Maria Kouloupolou, Sharmeen Hasan, Karen Ingram, Stuart Clarke, Kishan Parmar, Eleni Baldwin, Claire J Steves, William C Man, Matthew Maddocks

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

**Co-designing chronic lung disease education resources with Aboriginal Health Workers (AHWs) and exercise physiologists (EPs)**
David P Meharg (Camperdown, Australia), Sarah M Dennis, Justin McNab, Kylie G Gwynne, Christine R Jenkins, Graeme P Maguire, Stephen Jan, Tim Shaw, Zoe Mckcuough, Boe Rambaldini, Vanessa Lee, Debbie Mccowen, Jamie Newman, Scott Monaghan, Hayley Longbottom, Sandra J Eades, Jennifer A Alison
### 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 (Pérenchies, France), Olivier Le Rouzic, Cecile Chenivesse, 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 Zuwalack

### 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 Rutten, 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

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<td>Rahma Ben Jazia (Sousse, Tunisia), Dhouda Ben Braiek, Safa Ben Mansour, Yosri Ben Ali, Hend Zorgati, Haifa Sfar, Oussama Saadaoui, Amani Kacem, Anis Maatallah, Jhene Ayachi</td>
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<td>Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Tatiana Posharina, Helena Liira, Päivi Piirilä</td>
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Audrey Borghi Silva (São Carlos (SP), Brazil), MURILO OLIVEIRA, Bianca Domingos, Guilherme Back, Cássia Goulart, Audrey Borghi-Silva

Unexplained lung function differences in dyspnoic non-hospitalised Long-COVID (NLHC) patients and asymptomatic fully recovered COVID-19 controls - the EXPLAIN study
Kher Ng (London, United Kingdom), James Grist, Laura Saunders, Guilhem Collier, Avianna Laws, Gabriele Abu Eid, Nina Kainth, Scarlett Strickland, Lotta Gustafsson, Silly Thomas, Lily Dryhurst-Pearce, Laurie Smith, Violet Matthews, Kenneth Jacob, Jenny Rodgers, Amayn Elbainy, 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
Hamish Mcauley (Leicester, United Kingdom), Cara Flynn, George Mills, Molly Baldwin, Charlotte E Bolton, Christopher E Brightling, Omer Elneima, Paul L Greenhalgh, William D-C Man, Sally J Singh, Michael Steiner, Louise V Wain, Janet M Lord, Rachael A Evans, Neil J Greening

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

Long term pulmonary sequelae of COVID-19 pneumonia among recovered healthcare workers using High Resolution Chest CT scan and mMRC score
Gayle Francez Monique Tandoc (Baguio City, Philippines), Maria Luella De Leon, Bernard Demot, Cajulao Thea Pamela, Haya Larry, Dulay Tyrone, Pagalan 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, Tatiana Posharina, Helena Liira, Päivi Piirilä

Long COVID symptoms in intensive care unit survivors, a prospective study

Long term changes in pulmonary function among ICU COVID19 survivors

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

Exercise tolerance in patients with long COVID-19 syndrome: a combined cardiopulmonary exercise testing and echocardiographic study
Angelos Vontetsianos (ATHENS, Greece), Nikolaos Chynkiamis, Maria Ioanna Gounaridi, Christina Anagnostopoulou, Evaggelia Koukaki, Agamemnon Bakakos, Evangelos Oikonomou, Emmanuel 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

PS-11 in poster area
Poster session: Smoking cessation
Session 12:30 - 14:00

Disease(s) : Interstitial lung diseases | Thoracic oncology | Airway diseases | Sleep and breathing disorders
Method(s) : Cell and molecular biology | Imaging | General respiratory patient care | Epidemiology | Pulmonary function testing | Public health
Chairs : Paraskevi Katsaounou (Athens, Greece), Siyu Dai (Hangzhou, China)

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, Taşsın Gökhan Telatar, Kadir İlkkiç
Effectiveness of smoking cessation program in hospitalized patients
Dilek Karadoğan (Rize, Turkey), Esin Bilgün Konyalıhatipoğlu, 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
Nour Mahmoud (Tunis, Tunisia), Chirine Moussa, Houda Rouis, Abdelnadher 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

Teledmedicine as a tool in the smoking cessation clinic – 154 cases in 2 years in the largest city in Latin America.
Telma Cassia Santos Nery (São Paulo (SP), Brazil), Stella R Martins, Gustavo Correa De Almeida, Jefferson Benedito Pires Freitas, Lavinia Clara Del Rosso, Rafael Futoshi Mizutani, Carlos Roberto Ribeiro Carvalho

Outcomes of Adult Filipino Smokers enrolled in the Quitline and Compassionate Use of Nicotine Patch at the Lung Center of the Philippines from June 2021 to June 2022
Karina Mae Cheng (Quezon City, Philippines), Russel Jean Cervas, Glynna Ong-Cabrera, Racquel Ibañez, Vincent Jr Balanag

Changes in smoking behavior among healthcare professionals after COVID-19 pandemic
Hana Blibeç (Ariana, Tunisia), Soumaya Debbiche, Nozha Ben Salah, Houda Snene, Sameh Belhaj, Nadia Mehiri, 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
Takwa Bejaoui (Tunis, Tunisia), Rahma Gargouri, Mariem Ayadi, Ahmed Dhia Elleuch, 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

PS-3 in poster area
Session 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
**Chairs:** Lieuwe D.J. Bos (Amsterdam, Netherlands), Chair to be confirmed

**ARDS mortality prediction model using evolving clinical data and chest x ray imaging**
Ana Cysneiros (Lisboa, Portugal), Tiago Galvão, Nuno Domingos, Pedro Jorge, Luis Bento

**Development and validation of a diagnostic model for acute respiratory distress syndrome based on volatile organic compounds in exhaled breath**
Shiqi Zhang (Amsterdam, Netherlands), Laura A. Hagens, Nanon F.L. Heijnen, Marcus J. Schultz, Tom Van Der Poll, Marry R. Smit, Ronny M. Schnabel, Dennis C.J.J Bergmans, Lieuwe D.J. Bos

**Modeling lung ventilation in de novo acute respiratory failure: a bench study**
Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Christian Caillard, Robin Thevenin, Clemence Roussel, David Debeaumont, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clement Medrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

**Physiological effects of lung protective ventilation in patients with lung fibrosis and usual interstitial pneumonia pattern versus primary ARDS: a preliminary matched-control study**
Roberto Tonelli (Modena, Italy), Salvatore Grasso, Andrea Cortegiani, Lorenzo Ball, Giulia Bruzzì, Antonio Moretti, Francesco Murgolo, Rossella Di Muzzi, Dario Andrisiani, Filippo Gozzi, Ivana Castaniere, Riccardo Fantini, Luca Tabbi, Stefania Cerri, Anna Valeria Samarelli, Giulia Raineri, Giacomo Grasselli, Enrico Cini, Alessandro 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, Clemence Roussel, David Debeaumont, Christian Caillard, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clement Medrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

**Serial metabolic lung biopsies identify candidate metabolites of ARDS pathogenesis**
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

**In Taiwan Comparing ARDS Severity: Berlin Definition vs Lung Injury Score**
Chang Yujen (Taichung City, Taiwan), Chi Shuhua

**Time to disrupt VILI with mixed high-frequency oscillatory and negative-pressure ventilation?**
Daniel Black (Harrington Park, 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 Médralin, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

**Effectiveness of ECCO2-R in AE-COPD with hypercapnic acute respiratory failure, at risk of unsuccessful NIV treatment, to avoid endotracheal intubation: a rational of use**
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**
Marina Galdeano Lozano (Montacada I Reixach (Barcelona), Spain), Sarah Beatrice Heili-Frades Zimmermann, Adriana Martin Pascual, Toni Marin Muñiz, 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 Spiesshoefer (Aachen, Germany), Mehdi Senol, Binaya Regmi, Faniry Ratsimba, Oscar Gorol, Mustafa Elfeturi, Benedikt Jörn, Alexander Kersten, Michael Dreher

**Relationship between cytokine storm and hospital mortality in severe coronavirus disease-2019**
Je Hyeong Kim (Ansan, Republic of Korea), Beong Ki Kim, Saen 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
Flora Varga (Budapest, Hungary), Szabolcs Szigeti, Fruzsina Szilágyi, Zsuzsanna Miklós, Ildikó Horváth

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
Amrita Bhattacharyya (North 24 Parganas, India), Raja Dhar, 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 Monsurrò, Vincenzo De Simone, Giuseppe Fiorentino, Mario Guarino

PS-10 in poster area  Session  12:30 - 14:00
Poster session: Biomarkers in asthma

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

Chairs : Renaud Louis (Liège, Belgium), Andrei Malinovschi (Uppsala, Sweden)

Particles in exhaled air (PExA) - the protein composition in children
Kristiina Malimstrom (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 Villette, Daniela Miglietta, Fabio L. M. Ricciardolo

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

Methacholine challenge test versus nitrogen washout in patients with suspicion of asthma and normal spirometry.
Aline Stalder Siebeneichler (Basel, Switzerland), Desiree Schumann, Meropi Karakioulaki, Nora Braschler, Andrei Darie, Michael Tam, 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, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi

Muscle function in moderate to severe asthma: association with functional and clinical outcomes
Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Tim Van Zutphen, Huib A.M. Kerstjens, Anneke Ten Brinke

Association between neutrophil-to-lymphocyte ratio and severity of asthma exacerbation
Yossr Aloulou (Manouba, Tunisia), Houda Snene, Hana Blibeich, Rym Cheour, Sameh Belhadji, Jalloul Daghfous, Nedia Mehiri, Nozra 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 Rodriguez Martinez

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 Yui, Tunn Ren Tay

Are lipid mediators correlated to asthma features?
Meriem Mjid (Tunis, Tunisia), Bochra Jamoussi, Abir Hedhli, Khadija Euchi, Sameh Hadj Taieb, Yacine Ouahchi, Sana Cheikh Roulhou, 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
Kevin Murphy (Omaha, United States), Alison Church, Robert S. Zeiger, Robert A. Wise, Joan Reibman, Maureen George, William McCann, Keum Ju Choi

Acoustic biomarkers in asthma monitoring
Karolina Wieczorek (London, United Kingdom), Zofia Przypasniak, 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 midexpiration 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 (Liege, Belgium), Florence Schleich, Nicolas Bougard, Catherine Moermans, Monique Henquet, Françoise Guissard, Carole Sanschez, 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

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 Martin, Meg Coleman, Carlos Pavesio, Harry Petrushkin, Rashmi Akshikar, Onn Min Kon

Clinical and radiological predictors of tuberculous meningitis
Rebekah Young (London, United Kingdom), Erik Skyyberg, 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 Babilshvili, 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.
Zulfiqar Ali Detho (Karachi, Pakistan), Faisal Faiyaz Zuberi

Interleukin 32 as a Potential Marker for Diagnosis of Tuberculous 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 Luis, Luís 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, Solkichi Matsumoto, Konozuke 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), Tahream Chaudry, Ibrahim Abubakar, Frank Cobelens

Expression levels of maturation and activation markers in immune cells as a correlate of anti-tuberculosis therapy monitoring.
Sergio Díaz Fernández (Barcelona, Spain), Zoran Stojanovic, Raquel Villar-Hernández, Marco Fernández, Maria Luiza De Souza-Galvão, Jorge Abad, María Ángeles Jiménez-Fuentes, Guillem Safont, Nadia Tytarenko, Maria Finohenova, Cristina Prat, Jose Dominguez, Irene Latorre

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
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), V R Sangeeth Priyadarshan, Deepa Shankar, Christhunesa Soundararajan Christudass, Kotamreddy Sreedevi, 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 Kushwaha

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

OMV promotes the secretory autophagy of IL-1β in macrophage via GBP2
(GUANGZHOU, China), 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 (Leppington, Australia), Karoshed Reddy, Dikaia Xenaki, Brian Oliver, Marteen Van Den Berge, Alen Faiz

Response of bronchial and alveolar epithelial cells to poly (I:C)
Fatemeh Moheimani (Manchester, United Kingdom), Nafeesa Shahdab, Chris Ward, Stephen Cummings, John S Young

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

Smoking effects over experimental lung cancer model
Laura Sánchez Carretero (Madrid, Spain), Sandra Pérez Rial, Adele Chleo Cardeñoso Pérez, Oderay Mabel Cedeño Díaz, Jordi Llop, Jesús Ruiz-Cabello Osuna, Luis Seijo, Germán Pecees-Barba Romero

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

4-Indole-2-Arylamino pyrimidine identifies lysosomal cathepsin L activation critical for acute lung injury
Shihiy Yang (Hangzhou, China), Kaijun Chen, Min Zhang, Zhangchu Jin, Zhouyang Li, Zhengtong Mao, Huahao Shen, Xingxian Zhang, Gensheng Zhang, Zhihua Chen

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

Differential protomic profiles of lung injury in rat models upon pulmonary exposure to air pollution
Chia-Li Han (Taipei, Taiwan), Yu-Teng Zheng, Denise Utami Putri, Manh Quan Nguyen, Hsiao-Chi Chuang, Kang-Yun Lee

Late Breaking Abstract - Combined treatment of Formoterol and Tanimilast improves lung organoid growth
Rocio Fuentes-Mateos (Groningen, Netherlands), Ka Yu Wang, Loes Kistemaker, Fabrizio Facchinetti, Reinoud Gosens

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

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

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

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
Zhangchu Jin (China), Zhehua Shao, Wenqi Diao, Anyi Guo, Shihiy Yang, Yinling Han, Yinfang Wu, Yun Zhao, Yanping Wu, Jiaxin Shen, Songmin Ying, Chao Zhang, Wen Li, Huhao Shen, Zhihua Chen, Fugui Yan

Late Breaking Abstract - The expression of NOX4 and ESRP1 correlate with airway epithelial-mesenchymal transition in COPD
Jieda Cui (Yinchuan, China), Jiaqi Wang, Juan Chen

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

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

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

**Bronchodilator response assessed by spirometry and SPECT/CT in COPD.**
Edward Jeagal (Croydon Park, Australia), Hooria Alowiw, Harley Koltai, Troy Cross, Kaj Blokland, Elizabeth Bailey, Kathy Willowson, David Chapman, Gregory King

**Clinical and functional effects of inhaled dual therapy umeclidinium/vilanterol in patients with chronic obstructive pulmonary disease: a real-life study**
Corrado Pelaia (Catanzano (CZ), Italy), Anna Ferrante Bannera, Fioramante Lello Rotundo, Francesco Giuseppe Tropea, Giuseppe Armentaro, Angelantonio Maglio, Angela Sciaccqua, Alessandro Vatrella, Girolamo Pelaia

**Current smoking reduces small airway eosinophil counts in COPD**
Augusta Beech (Manchester, United Kingdom), Sophie Booth, Dave Singh, Andrew Higham

**COPD and heart rhythm disturbances: Overview of supraventricular and ventricular arrhythmias**
Daniela Bukioska Ilievska (Skopje, North Macedonia), Jordan Minov

**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

**Impact of comorbidities on quality of sleep among Tunisian patients with chronic obstructive pulmonary disease**
amal chennoufi (tunis, Tunisia), Chirine Moussa, Rousi Houda, Ghourabi Asma, Khattab Amel, Khouaja Ibthiel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Mallej Sonia

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

**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

**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

**Clinical factors linked to the type of respiratory medication in COPD: Results from COSYCONET**
Peter Alter (Marburg, Germany), Kathrin Kahnert, Franziska C. Trudzinski, Robert Bals, Henrik Watz, Tim Speicher, Sandra Söhler, Tobias Welte, Klaus F. R. Rabe, Emiel F. M. Wouters, Claus F. Vogelmeier, Rudolf A. Jörres

**Medication success among real-world users of budesonide/glycopyrrolate/formoterol fumarate (BGF) for the management of COPD in a UK primary care population**
Hana Müllérová (Cambridge, United Kingdom), Jeffrey Shi Kai Chan, Heath Heatley, Victoria Carter, John Townend, Derek Skinner, Stefan Franžén, Johann Canstened, 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 Alfano, 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**
Afisi S Ismaila (Malvern, United States), Dhvaniji Shah, Alan Martin, Robyn Kendall, Stephen Noorduyn, Priyadarsini 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 Popale, Utsav Samariya, Komalkirti Apte, Sheetu Singh, Raja Dhar, Sujeet Rajan, Rajesh Swarnakar, Deepak Talwar, Meena Lopez, Vaishali Naik, Sandesh Sawant, Sushmeeta Chhowala, Abbijit 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 Agusti, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saraiva, Ying Fan, Maria Jison, Ubaldio 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 Ibsen, Ole Hilberg, Anders Lokke

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, Elhadj Anassour Laouan Sidi, Steeve Provencher

Clinical effect of inhaled corticosteroid withdrawal in stable COPD Patients
Chung-Yu Chen (Douliou (Yunlin), Taiwan), Cheng-Yu Chang, Shih-Chieh Chang, Yu-Feng Wei

Cost-Effectiveness of Umeclidinium/Vilanterol Versus Indacaterol/Glycopyrronium in Symptomatic patients with COPD in the UK
Afisi S Ismaila (Malvern, United States), Dhvani Shah, Alan Martin, Robyn Kendall, Stephen Noorduyn, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton

Prevalence and presentation of early stage of chronic obstructive pulmonary disease in China: a national cross-sectional study
Jieping Lei (Beijing, China), Ke Huang, Wei Li, Sinan Wu, Ting Yang, Chen Wang

Correlation of COPD Assessment Test score and severity of 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 Afzal

COPD exacerbations during and beyond the COVID-19 pandemic in the UK
Derek Skinner (Cambridge, United Kingdom), Jeffrey Shi Kai Chan, Mehul Patel, Richard Hubbard, Himanshu Parikh, David Price, Victoria Carter

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 Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, 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 Wilecke, Pradeesh Sivapalan, Charlotte Ulrik, Jens Ulrik Stehr Jensen

Characteristics of COPD patients on maintenance inhaled therapy in Hungary
Balázs Sánta (Budapest, Hungary), Margit Biró, Krisztina Vincze, Mártá Kamocsay, Zsófia Lázár

COPD-related mortality through different waves of the COVID-19 pandemic
Gabriella Guarneri (Padova (PD), Italy), Claudio Barbiellini Amidei, Veronica Casotto, Alessa 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 Naifes, Kirthi Gunasekera, Mahesh Padukudru Anand, Talant Sooronbayev, Peter Burney, Vanessa García-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), Josefin 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 Szlak, Gyorgy Surjan, Orsolya Surjan, Peter Nagy, Zsuzsa Schaff, Cecilia Muller, Zoltan 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 Codeseido, 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 Albaek 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 Härstedt, Marieann Högnman, 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 Benjafeld, 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 Benjafeld, Carlos Nunez, Atul Malhotra, Jadwiga Wedzicha

PS-20 in poster area
Session 12:30 - 14:00
Poster session: From diagnosis to therapy in pulmonary arterial hypertension

Disease(s) : Pulmonary vascular diseases
Interstitial lung diseases

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

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

Diagnosing pulmonary arterial hypertension in the Real World
R James White (Rochester, United States), Rogier Klok, 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 Torbiciki (Otwock, 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.
Gina Bustamante (Barcelona, Spain), Ana Diez, 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
Tracey Weiss (Coopersburg, United States), 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 Chin, Ekkehard Grünig, Jakob Hauser, Cheryl Lassen, 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, Cattia C. Proenca, 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, Gulammehdi Haji, Stefano Centanni, Luke Howard

Living with pulmonary hypertension – a cross-sectional survey of UK patients
Iain Armstrong (, United Kingdom), Catherine Billings, J Paul Sephton, Martin Clayton, Mary Ferguson, John Smith

Rodatristat ethyl: characterization of reductions in peripheral serotonin supportive of ELEVATE 2, a Phase II b clinical study for pulmonary arterial hypertension
Courtney McKernan (Durham, United States), Michelle Palacios, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring

Pulmonary arterial hypertension with comorbidities – does dual therapy have a role?
Julia Thomas (Dumfries, United Kingdom), Harrison Stubbs, Martin Johnson, Colin Church, Melanie Brewis

Initial dual oral combination therapy in patient with pulmonary arterial hypertension and cardiovascular comorbidities
Athénais Boucly (Le Kremlin Bicêtre, France), Laurent Savale, David Montani, Xavier Jaïs, Marc Humbert, Olivier Sitbon

The impact of comorbidities on inhaled treprostinil treatment in patients with pulmonary arterial hypertension
Valléricle McLaughlin (Ann Arbor, United States), Rahul Argula, Shelley Shapiro, Eric Shen, Hyoshin Kim, Meredith Broderick

Methamphetamine and idiopathic PAH: Similar treatment, similar outcomes
Cole Uhland (tucson, United States), Angela Gibbs, Michael Insel, Saad Kubba, Franz Rischard

Use of Long-term Oxygen Therapy in Patients With Pulmonary Hypertension in Spain
Rodrigo Torres Castro (Barcelona, Spain), Gregorio Miguel Pérez Peñate, Jesús Pérez Sagredo, Rafael Bravo Marqués, Clara Soto Abínades, Purificación Ramírez Martín, Victor M. Becerra Muñoz, Pilar Escribano Subías, Joan Albert Barberà, Isabel Blanco, On Behalf Of The Rehap Investigators

A UK national patient survey of attitudes towards aspects of novel clinical trial design in pulmonary hypertension
Joseph Newman (Cambridge, United Kingdom), Shaun Clayton, Mary Ferguson, Iain Armstrong, Elisa Ferrer-Mallol, Elin Haf Davies, Mark Toshner

The UPHILL study: a nutrition and lifestyle intervention to improve quality of life for patients with pulmonary arterial hypertension
Chermaine Kwant (Den Haag, Netherlands), Frances De Man, Frans Van Der Horst, Harm-Jan Bogaard, Anton Vonk Noordegraaf

A randomized study to evaluate the effects of single-dose MK-5475 co-administered with sildenafil on systemic hemodynamics
Mahesh J. Patel (Rahway, United States), Ednan K. Bajwa, Dawn Cislak, John Palcza, Tom Reynders, Jenny Barthson, Eseang Lai, S. Aubrey Stoch

Rodatristat ethyl: peripheral serotonin targeting with low risk for impacting mood supportive of ELEVATE 2, a Phase II b clinical study for pulmonary arterial hypertension
Michelle Palacios (Gary, United States), Courtney McKernan, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring

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**PS-17 in poster area**

**Session** 12:30 - 14:00

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

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

**Method(s):** Epidemiology  Imaging  Pulmonary function testing  General respiratory patient care  Public health  Surgery  Palliative care
Chairs: Wouter H. van Geffen (Leeuwarden, Netherlands), Joanna Domagała-Kulawik (Warszawa, Poland)

Assessing lung cancer risk in young and elderly patients in a lung cancer screening programme
Aranzazu Campo Ezquibela (Pamplona (Navarra), Spain), Begoña Ortiz, Ana Belén Alcaide, Juan Berto, Teresa Pérez-Warnisher, Carmen Felgueroso, Jesus Pueyo, Marimar Ocon, Juan Pablo De Torres, Gorka Bastarrika, Luis Seijo

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, Mauricio Wagner Souto Ferraz, Sérgio Vicente Serrano, Carolina Lourenço Da Conceição, Bianca De Bortoli Petiquer Capucho, Rodrigo Sampaio Chiarantano, Rui Manuel Vieira Reis

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

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, 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
Leticia Ferro Leal (Barretos, Brazil), Rodrigo Chiarantano, Fabiana Vazquez, Ludmila Barbosa Pereira Dos Santos, José Elias Miziara, Edmundo Mauad, Mauricio 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
Eleni Kokotou (N.Faliro (Piraeus), Greece), Emmanouil Panagiotou, Mirsini Livanou, Anastasia Karachaliou, Ioannis Gkiozos, Maria Mani, Lamprini Stournara, Sofia Tsagouli, Ioannis Vathiotis, Andriani Charpidou

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 Mewiiliiams, 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 Mewiiliiams, 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, Rhiain 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 (Brighton, United Kingdom), Lukas Kalinke, Nick Adams

The effect of delays on survival patients with lung cancer
Amani Kacem (Sousse, Tunisia), Jihene Ghariani, Imen Kherrat, Anis Maatallah, Rahma Benjazia, Yosri Benali, Hend Zorgati, Sourour Belhayoussaf, Jihene Ayachi

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
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

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

PS-18 in poster area
Session 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
Chairs: Manuela Funke-Chambour (Bern, Switzerland)

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, Feridoun Abtin, Lila Pourzand, Bianca Villegas, Jihey Lee, Kyungjung Lee, Jonathan Goldin, Jin Woo Song

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

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

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

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

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

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

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

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

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

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

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 Schlange, 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 Schlange, 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 Schlange, 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), Chloé 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, Nicoló Bernardinello, Elisabetta Coccoconcelli, Mariaenrica Tinè, Giulia Grisostomi, Serena Bellani, Fiorella Calabrese, Paolo Spagnolo, Elisabetta Balestro

PS-13 in poster area
Poster session: Daily activity, exercise and others in chronic obstructive pulmonary disease and asthma
Disease(s): Respiratory critical care Airway diseases
Method(s): Pulmonary rehabilitation Respiratory intensive care General respiratory patient care Imaging
Chairs: Elena Gimeno-Santos (Barcelona, Spain)

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

Reproducibility of the six-minute walk test on a 20-meter course in patients with COPD
Jeanett Delbressine (Horn, Netherlands), Alex Van’t Hul, Dennis Jensen, Wei 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 Wuys (Laeken, Belgium), Fien Hermans, Sofie Breuls, Stephanie Everaerts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters

Diaphragmatic mobility assessed by ultrasound is associated with thoracoabdominal asynchrony in severe to very severe COPD patients
Juliana Melo Batista Santos (São Bernardo do Campo, Brazil), Estéfane C M Reis, Pedro L Lino, Adriana C Lunardi, Cibele C B M Silva, Thiago F Pinto, Regina M Carvalho-Pinto, Alberto Cukier, Maria C Chammas, Celso R F Carvalho

Usability of the OnTRACK platform to promote physical activity in COPD
Nádia Hipólito (Leiria, Portugal), Sofia Flore, Jessica Gordo, Diogo Pinto, Ruben Cacceiro, Fernando Silva, José Ribeiro, Marcelo Brites-Pereira, Nuno Morais, Cândida G. Silva, Ana Oliveira, Chris Burtin, Dina Brooks, Alda Marques, Joana Cruz
Experiences of interprofessional collaboration and the care delivery pathway for patients with COPD. 
Sara Lundell (Umea, Sweden), Asa Wikman, Gunilla Stenberg

Relationship between social support and COPD GOLD groups 
Cintia Dias (Aveiro, Portugal), Patricia Rebelo, Guilherme Rodrigues, Ana Sofia Grave, Maria Aurora Mendes, Sara Almeida, Célia Freitas, Isabel Moreira, Cristina Santos, Adriana Simões, Claudia Rodrigues, Inês Amado, Alida Marques

Investigation of chest and neuropathic pain on disease severity in patients with COPD 
aynur demirel (ankara, Turkey), Mustafa Celik, Melda Saglam, Naciye Vardar Yaglı, Lutfi Coplu

Acute effects of EPAP during exercise on chest wall volumes and breathing pattern in COPD 
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Lailane Saturnino Da Silva, Vanessa Resquei, Marina Lyra Lima Cabrál Fagundes, Priecila Mayara Da Silva Resende, Hugo Leonardo Alves Pereira, Veronica Franco Parreira, Andrea Aliverti

Automated oxygen titration at home for patients with COPD - a pilot study 
Linette Marie Kofod (Jyllinge, Denmark), Ejvind Frausing Hansen, Barbara Brocki, Morten Tange Kristensen, Elisabeth Westerdahl

ANALYSIS OF VENTILATORY CHARACTERISTICS IN PATIENTS WITH COPD AND HOME MECHANICAL VENTILATION. 
Adriana Martin Pascual (Tiana, Spain), Marina Galdeano Lozano, Carmen Fernandez, Ariadna Ng Moranco, Guillem Hernandez, Francesc López, Irene Aldás, M Matute Villacis, Antoni Marin, Agnes Hermández, Ignasi Garcia, Jorge Abad

A Core Outcome Set for Pulmonary Rehabilitation of patients with COPD: a modified Delphi survey 
Sara Souto-Miranda (Aveiro, Portugal), Isabel Saraiva, Martijn A. Spruit, Alida Marques

The use of Virtual Reality as a rehabilitational strategy in patients with COPD. Systematic Review 
Irini Patsaki (Piraeus, Greece), Vasiliki Avgeri, Theodora-Maria Rigoulia, Dimitris Tsimouris, Theodoros Zekis, Eirini Grammatopoulou

Feasibility of an animated video intervention post-acute exacerbation of COPD 
Kriti Agarwal (Montreal, Canada), Matheus De Paiva Azevedo, Jean Bourbeau, Deborah Da Costa, Sarah Ahmed, Pauline Anderson, Tanja Janaudis-Ferreira

Survey of Australian pulmonary rehabilitation health professionals: is exercise prescribed in line with clinical guidance? 
Hayley Lewthwaite (Merewether, Australia), Emily R Cox, Gennaro D’Elia, Sarah Valkenborghs, Jennifer Mackney, Vanessa M Mcdonald

LungFlareCare: development and evaluation of a new web-based educational resource 
Christian Osadnik (Melbourne, Australia), Alethea Kavanagh, Ruben Hopmans, Georgia Roberts, Chooi-Ee Lai, Jessica Degaris, Lauren Palmer, Amy Catlin, Marielle Collings, Rachel Smith, Carla Gordon

Perceptions and beliefs associated with enrolling in pulmonary rehabilitation 
Ana Oliveira (Aveiro, Portugal), Anne-Marie Selzler, Cindy Ellerton, Dina Brooks, Roger Goldstein

Utility of respiratory impedance to evaluate the efficacy of pulmonary rehabilitation in people with chronic obstructive pulmonary disease 
Simone Pance (Milan, Italy), Marialaura Bertussi, Riccardo Buraschi, Luca Nicola Cesare Bianchi

Motivation to exercise and its relation to self-efficacy in adolescents with asthma: an observational study 
Fernanda Lehrbaum (Londrina, Brazil), Joice Mara De Oliveira, Nathalia Ribeiro Berdu, Ana Beatriz Matos Bernardo, Cláudio Luiz Castro Gomes De Amarim, Simone Dal Corso, Fabio De Oliveira Pitta, Manuela Karloeh, Karina Couto Furlanetto

Problematic activities of daily living in adult patients with asthma 
Roy Meys (Horn, Netherlands), Frits Franssen, Nienke Nakken, Anouk Vaes, Daisy Janssen, Anouk Stoffels, Hieronymus Van Hees, Bram Van Den Borst, Peter Klijn, Chris Burtin, Martijn Spruit

PS-6 in poster area  
Poster session: Basic and clinical science in sleep breathing disorders: a bidirectional relationship  
Disease(s): Sleep and breathing disorders, Airway diseases 
Method(s): General respiratory patient care, Surgery, Physiology, Epidemiology, Cell and molecular biology, Public health, Pulmonary function testing, Pulmonary rehabilitation 
Chairs: Anne Briançon-Marjollet (Grenoble Cedex 9, France)
Application of intermittent hypoxia to precisely-cut tissue slices: a novel ex vivo model for studying the parenchymal effects of obstructive sleep apnea (OSA)
Isaac Almendros (Barcelona, Spain), Alicia Jurado, Anna Ulldemolins, Helena 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 Alvarez Ruiz De Larrinaga, Andrés Sánchez Barón, Mercedes Codina Marcet, Mónica De La Peña Bravo, Antonia Barceló Bennasar, Daniel Morell-Garcia, Javier Pierola Lopetegui, José Antonio Peña Zarza, María Concepción Piñas Cebrian, Susana Garcia Fernández, Carme Ferrer Quintana, Sabina Perello Rosello, Alberto Alonso Fernández

PD-L1+ small extracellular vesicles in obstructive sleep apnea syndrome
Wojciech Trzepizur (Angers, France), Sylvain Recoquillon, Grégoire Justeau, Jérémie Riou, Carmen Martinez, Ramaroson Andriantsitohaina, Frédéric Gagnadoux

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

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

Dysgenic burden to guide CPAP treatment allocation in OSA: findings from the ISAACC trial
Lucia Pinilla (Lleida, Spain), Neda Esmaeili, Gonzalo Labarca, Olga Mínguez, Dolores Martínez, Jorge Abad, Maria José Masdeu, Olga Mediano, Carmen Muñoz, Valentín Cabriada, Joaquín Duran-Cantolla, Mercè Mayos, Ramón Coloma, Josep Maria Montserrat, Mónica De La Peña, Wen-Hsien Hu, Andrew Wellman, Scott Sands, Ludovico Messineo, Ferran Barbé, Manuel Sánchez-De-La-Torre, Ali Azarbarzin

Central sleep apnea treated by a constant low dose of CO2 supplied by a novel device
Yuanming Luo (Guangzhou (Guangdong), China), Yongxi Chen, Shanfeng Liang, Luguang Wu, Andrew Wellman, R Doug Mcevoy, Joerg Steier, Danny J Eckert, Michael I Polkey

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

Treatment of OSA initiating with CPAP at 10 cmH2O
Yan Chen (Guangzhou, China), Lu Wang, Qishan Wei, Yingxin Wu, Shanfeng Liang, Joerg Steier, Yuanming Luo

Is CPAP pressure titration always necessary?
Qishan Wei (Guangzhou, China), Qiong Ou, Shanfeng Liang, Cuizheng Huang, Simin Liu, Yuanming Luo

Effects of adaptive servo-ventilation on quality of life and symptoms according to its treatment indication –a subgroup analysis from the read-asv registry
Michael Arzt (Regensburg, Germany), Oliver Munt, Pepin Jean-Louis, Heinzer Raphael, Adam Benjafied, Holger Woehrle

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

Association of physical activity and BMI on sleep disordered breathing and sleep related symptoms.

The link between the sphingolipid rheostat and obstructive sleep apnea
Péter Horváth (Budapest, Hungary), Lilla Bődi, Dániel Hammer, Rita Varga, György Losonczy, Ádám Tárnoki, Dávid Tárnoki, Martina Mészáros, András Bikov

Comparing right ventricular function in patients with severe Obstructive Sleep Apnea when treated and not treated with Continuous Positive Airway Pressure
Amal Saidani (Bizerte, Tunisia), Fateh Kadardar, Sofiene Haboubi, Hajer Farhat, Saddem Zemzem, Hedi Ben Slima

Obstructive sleep apnea and falls in COPD patients: a cross-sectional and follow-up study
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaela Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho
### Impact of nocturnal hypoxemia on systemic inflammation in obstructive sleep apnea hypopnea syndrome (OSAS)
Samira Mhamdi (Mannouba, Tunisia), Safa Marzouki, Améni Naaroura, Houda Snoussi, Chiraz Aichaouia, Selsabil Daboussi, Zied Moetamri

### 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

### 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

### Late Breaking Abstract - Detecting sleep apnea in advance using machine learning and ECG-deprived spectrogram during CPAP titration
Thanh Duy Linh Tran (Ho Chi Minh, Vietnam), Thi Hoang Trang Nguyen, Shang-Yang Lin, Wen-Tie Liu, Chaur-Jong Hu

### PS-16 in poster area

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

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

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

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom), Anne M. van der Does (Leiden, Netherlands)

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<td>In vitro identification of essential genes of carbapenems resistant OprD mutant Pseudomonas aeruginosa</td>
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Immunoinformatics investigation of B- and T-cell epitopes in the VP2 protein of the BOCA respiratory virus
Erasmia Rouka (Larissa, Greece), Kerasia Goupou, Sotirios Zarogiannis

Palmitoleic acid suppresses Pseudomonas aeruginosa quorum sensing-controlled virulence and relieves infection-induced lung injury
Lei han (Shanghai, China), Yishu Xue, Jianwei Gao, Qiang Fu, Ping Shao, Min Zhang, Fengming Ding

Whole transcriptome profile underlies the COVID-19 bimodal phenotypes
Sabrina Setembre Batah (Ribeirão Preto, Brazil), Heloisa Zimermam, Maria Júlia 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
Erasmia Rouka (Larissa, Greece), Sotirios Kampouris, Sotirios Zarogiannis

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Erasmia Rouka (Larissa, Greece), Sotirios Kampouris, Sotirios 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. Pérez, Nick Petford, Jonathan Grigg

Profiling the immune response in patients hospitalised with lower respiratory tract infection
Merete Bridget Long (Dundee, United Kingdom), Beverley Coldwell, David Wertheim, Ian Gill, Simon Crust, Nemesio M. Pérez, Nick Petford, Jonathan Grigg

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 Montalbán, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, José 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, Lianjun Lin

**PS-4 in poster area**

**Session 1: 12:30 - 14:00**

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

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

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

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

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

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

**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

**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 (Möln达尔, 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 Constantiou, Lambert Montava Garriga, Valentina Quaratontti, Hui Sun Leong, Chang Kim, Elissavet Kentepezidou, Ceri Wiggins, Roxane Paulin, Laura Rosenberg, Davide Gianni, Henric Olsson

**A phenome-wide association study of idiopathic pulmonary fibrosis reveals complex genetic relationships with age-related diseases**
Samuel Moss (London, United Kingdom), Iain Stewart, Gina Parcesepe, Richard J. Allen, Louise V. Wain, R. Gisli Jenkins
Pirfenidone ameliorates acute respiratory distress syndrome through suppressing pulmonary inflammation and fibrosis in rats
Cheonwoong Choi (Seoul, Republic of Korea), Yeehyung Kim

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

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

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, Maria Sebastián Mora-Gil, Virginia Portilla, Alfonso Corrales, Iván Ferraz-Amaro, Ricardo Blanco, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

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

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

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

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 Escremim 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 Marin Trigo, Ciro Casanova Macario, Borja García-Cosío Piquieras, 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 Padrón Frayse, Belen Callejón Leblic, Eduardo Márquez Martín, Margarita Marin Royo, Antonia Lunell Casanovas, Eva Ballells Vilarnau, Cristina Martinez Gonzalez, Juan Bautista Galliz Iturri, Celia Lacárcel Bautista, Juan Pablo De Torres Tajes, Isabel Diaz Olveraz, German 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 Stochkel 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), Malgorzata Szolowska, 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 Warpman Berglund

Late Breaking Abstract - Anti-fibrotic and anti-inflammatory properties of isofrom-selective SIK inhibitors in vitro and in vivo
Kristin Wqvist (Mölnsdal, Sweden), Alexander Vidal, Madeleine Ingelsten, Tomas Ottosson, Eylmen Guercan, Thoimais Markou, Melker Göransson
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<th>Disease(s)</th>
<th>Airway diseases</th>
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<td>Method(s)</td>
<td>Cell and molecular biology</td>
<td>General respiratory patient care</td>
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<td>Pulmonary function testing</td>
<td>Epidemiology</td>
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<td>Physiology</td>
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<td>Chairs</td>
<td>Michael Loebinger (London, United Kingdom), Oriol Sibila Vidal (Barcelona, Spain)</td>
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**Preliminary results from the “Genes encoding complex ciliopathies of bronchiectasis” GECCO study: An EMBARC project**
Amelia Shoemark (Dundee (Angus), United Kingdom), Mahmoud Fassad, Lidia Perea, Erin Cant, Mathieu Bottier, Josie Altenburg, Anthony De-Soysa, 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 Crichton (Dundee (Angus), United Kingdom), Arietta Spinou, Amelia Shoemark, Stefano Ariberti, Josie Altenburg, Francesco Blasi, Clare Clarke, Sanjay Chotirmall, Raja Dhar, Pieter Goeminne, Chalres Haworth, Michael Loebinger, Natalie Lorent, Eva Polverino, Felix Ringshausen, Michal Shteingberg, Oriol Sibilla, Tobias Welte, James Chalmers

**Muscle phenotypic features in the vastus lateralis of patients with bronchiectasis**
Mariela Nieves Alvarado Miranda (Reus, Spain), Adriana Nuñez-Robainas, Maria Perez-Periro, 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 Trottzsch, Charlotte O. Pioch, Christine Alloomba, Leonie M. Busack, Apolline Tosolini, Bent R. Fuhlrett, Marcus A. Mall, Jobst F. Röhmel

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

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

**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, Lidía Perea-Soriano, Rosa Faner-Canet, Oriol Sibilla-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, Maria Pérez Peiró, Esther Barreiro

**Nutritional status in non-cystic fibrosis bronchiectasis**
Dilara Ömer Topçu (Bursa, Turkey), Aslı Görkay Dilıktaşlı, Esra Kunt Uzaslan, Nevzat Uslu, Mehmet Karadağ

**Association between the lung microbiome and severity scores in bronchiectasis**
Safa belkhir (Tunis, Tunisia), Chirine Moussa, Houda Rouis, Mahdi Abdennadher, Faten Mhiri, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Maalej

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Dilara Ömer Topçu (Bursa, Turkey), Aslı Görkay Dilıktaşlı, Esra Kunt Uzaslan, Mehmet Karadağ

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

The relationship between chest CT scoring, aetiology and severity of disease in Bronchiectasis: an EMBARC analysis
Angelina Pieters (Helmond, Netherlands), Tjeerd Van Der Veer, Jennifer M Meerburg, Eleni-Rosalina Andrinopoulou, Menno M Van Der Eerden, Pierluigi Ciet, Megan L Crichton, Stefano Aliberti, Pierre-Regis Burgel, Pieter C Goeminne, Charles S Haworth, Michael R Loeboe, Michel Shteinberg, Francesco Blasi, Harm Avm Tiddens, Daan Caudri, James D Chalmers

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

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, Rossella Valvason, Marta Zuffellato, Giulia Fichera, Alessandro Miceli, Chiara Giraudo, Andrea Sattin, Anna Maria Cattelan, Marina Saetta

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 Vukosa (Sremiska Kamenica, Republic of Serbia), Dragan Dragusic, 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, Yoriiyu 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 Moller 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 Paderivinskiene, Skaidrius Miliauskas

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

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

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 Škrinjarić-Cincar
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 Králové, Czech Republic), Miroslav Solar, Michal Kopecky, Barbora Novotna, Marek Plutinsky, Libor Fila, Petr Vanik, Pavlina Musilova, Tomas Dvorak, Petr Safranek, Michal Svoboda, Vladimir Koblizek

Exacerbation history and myocardial infarction in patients with chronic obstructive pulmonary disease (COPD) in Sweden
Oskar Wallström (Göteborg, Sweden), Fredrik Nyberg, Caroline Stridsman, Anne Lindberg, Lowie Vanfleteren

OBSTRUCTIVE PULMONARY DISEASE CORONAROPATHY RISK (COPDCORI) AND SYSTEMIC INFLAMMATION VALUES IN PATIENTS WITH COPD AFTER COMPLETION OF A PULMONARY REHABILITATION PROGRAMME.
Natalia González Florido (Málaga, Spain), Ana Muñoz Montiel, Pedro Ruiz Esteban, Adolfo Domenech Del Rio, Miguel Ángel Sánchez Chaparro, Casilda Oliveira Fuster

Association of CAT and PHQ-9 scores for depression among COPD patients – a Philippine cohort.
Jermelyn Sarion (Manila, Philippines), Guinevere Agra, Celeste Mae Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfio Pagcatipunan, Roland Panaligan, Tim Trinidad

The continuously evolved RE-SAMPLE cohort: predicting outcomes of COPD and comorbidities
Charlotte Cecile Bucsán (Losser, Netherlands), Anke Lenferink, 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
Rehak Haider (Shrewsbury, United Kingdom), Elizabeth Finn, Shabeena Zeb, Faraz Bharwana, Alice Fitzgerald, Sana Ifikhar, Imran Hussein

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 (Sremska Kamenica, Republic of Serbia), Jelena Mikov, Goran Stojanovic, Nevena Secen, 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

PS-19 in poster area  12:30 – 14:00
Poster session: Novel insights in the pathogenesis of interstitial lung disease
Disease(s) : Interstitial lung disease
Method(s) : General respiratory patient care  Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  Imaging  Physiology  Pulmonary function testing
Chairs : Paolo Cameli (Siena (SI), Italy), Chair to be confirmed
Hypersensitivity Pneumonitis associated to foam pillows and mattresses - mold analysis
Onofre Moran Mendoza (Kingston (ON), Canada), Gurmoohan 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, Antonino Campos Caro

Capelozzi’s necrosis is a novel histological biomarker for the diagnosis of chronic microaspiration in fibrosing interstitial lung diseases
Alexandre Todórovic Fabro (Ribeirao Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acuercio Zimmermam, Maria Júlia Faci Do Marco, Mateus Magalhães Lage Moraes, Wagner Moneda Telini, Adriana Paes Leme, Romenia Ramos Domingues, Robson Francisco Carvalho, Amanda Piveta Schnepper, Andrea Antunes Cetlin, Danilo Tadao Wada, Marcel Koenigkam Santos, Tales Rubens Nadai, José Antônio Baddini-Martinez, Vera Luiza Capelozzi
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 Julia Faci Do Marco, Heloisa Acurcio Zimermam, Danilo Tadao Wada, Andrea De Cássia Vernier Antunes Catelin, Marcel Koenikning Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro

Serum metalloproteinase 7 as a biomarker of progressive pulmonary fibrosis
Márícia Aratijo (Porto (Porto), Portugal), Marília Beltrão, Oksana Sokhatska, Natalia Melo, Patricia Caetano Mota, Helder Novais Bastos, André Terras, Luís Delgado, António Morais

The neutrophil to lymphocyte ratio in broncho-alveolar lavage in hypersensitivity pneumonitis: preliminary results
Andreea Maftei (Muti) (Bucuresti, Romania), Ionela Belaconi, Marius-Alexandru Coteș, Ștefan Dumitrache-Rujinski, Claudia Lucía Toma, Marina Ruxandra Oțelea

Peripheral immune cell profiling reveals distinct immune hallmarks in progressive pulmonary fibrosis
Fernanda Inês Hernandez Gonzalez (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recasens, Tamara Cruz, Nuria Albacar, Gemma Lopez Saiz, Xavier Osuna, Mauricio Rojas, Alvar Agusti, Rosa Faner, Jacobo Sellares

Evaluation of pro-inflammatory proteins and joint disease activity in individuals with interstitial lung disease associated with rheumatoid arthritis.
Karol Jazmin Nava Quiroz (México, Mexico), Vicente Chino, Valentina Ferroni, Simone Montini, Valier Partenope, Lucrezia Pisanu, Vincenzo Sanci, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico, Giulia Maria Stella

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 Siverton, Íñigo Ojanguren Arranz, Xavier Muñoz Gall, Cristina Berastegui Garcia, 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 (Udine, Italy), Nicola Baio, Vittorio Chino, Valentina Ferroni, Simone Montini, Valiero Partenope, Lucrezia Pisanu, Vincenzo Sanci, Alessandro Cascina, 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 Aguair, Catarina Cardoso, David Coelho, Vanessa Santos, André Terras Alexandre, Ana Luisa Fernandes, Natália Melo, Patricia Mota, Inês Neves, Susana Guimarães, Conceição Souto Moura, José Miguel Jesus Pereira, André Carvalho, Luis Delgado, Oksana Sokhatska, 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 Engelmayer (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

Intestinal 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 Milkowska-Dymansowa, Adam Jerzy Bialas, Wojciech Jerzy Pietrowski

Frequency and background of progressive fibrosing interstitial lung disease (PF-ILD) in patients with anti-aminocytotRNA synthetase (ARS) antibody-positive interstitial lung disease.
Takafumi Yamano (Kurashiki, Japan), Machiko Arita, 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, Aima Teniente-Serra, Bibiana Quirant, Amalia Moreno, Pere Serra-Mitjà, Marian García-Núñez, Eva Martinez-Cáceres, Antoni Rosell Gratacós, Iñaki Salvador-Corres
PS-7 in poster area  Session  12:30 - 14:00
Poster session: Novel treatment strategies for airway diseases: a glimpse into the future

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

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

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

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

Heterogeneity of the lung microbiome influences response to Astegolimab, an anti ST2, in COPD
Koirobi Haldar (leicester, United Kingdom), David F. Choy, Ahmed Yosuf, Vijay Mistry, Jordan S. Mar, Dorothy Cheung, Michele A. Grinbaldeston, Christopher Brightling

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

Characterization of the ADME profile of tanimilast following administration of an intravenous microtracer combined with a single inhaled dose in healthy males
Michele Bassi (Parma, Italy), Veronica Puviani, Debora Santoro, Sonia Biondaro, Aida Emirova, Mirco Govoni

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, Genki Kimura, Shyreen Hassibi, Jonathan Baker

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 Vang Gundersen (København Ø, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Tor Biering-Sørensen, Allan Linneberg, Jens Ulrik Jensen

The bacterial lysate OM-85 amplifies efficacy of Allergen Immunotherapy (AIT) in allergic patients with asthma and rhinitis
Antonios Christopoulos (Patras, Greece), Maria Elpida Christopoulou, Panagiota Tsiri, Vasiliki Sotiropoulou, Eva Theohari, Electra Koulousousa, Demitris Komninos, Georgios Tsirikos, Ioannis Christopoulos, Argyrios Tzouvelekis

Effects of acid-suppressive medications in patients with chronic obstructive pulmonary disease: a multicenter study using a common data model
Jeongwon Heo (Chuncheon-si, Republic of Korea), Seung-Joon Lee, Sung Joon Lee, Seon-Sook Han, Seong-Joon Cho, Ja Kyoung Kim, Yeonjeong Hae

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

Ensifentrine, a novel dual phosphodiesterase (PDE) 3 and 4 inhibitor, reduces annualized exacerbations and delays the time to first exacerbation in COPD over 48 Weeks
Henrik Watz (Großhansdorf, Germany), Tara Rheault, Thomas Bengtsson, Kathleen Rickard

Anamorelin, a ghrelin receptor agonist, inhibited the allergic airway inflammation in mice
Hiroki Bando (Tokushima, Japan), Seidai Sato, Hirohisa Oogawa, Kazuya Koyama, Kojin Murakami, Yuya Yamashita, Nandn-Erdene Danzan, Keiko Haji, Nobuhito Naito, Hiroshi Kawano, Yasuhiko Nishioka

PI3Kyd inhibition suppresses key disease features in a rat model of asthma
James Pinkerton (New Lambton Heights (NSW), Australia), Silvia Preite, Antonio Piras, Dimitrios Zervas, Thomais Markou, Mark Freeman, Tobias Hofving, Eva Lamm Bergstrom, Emil Ivarsson, Sara Bonvini, Wayne Brailsford, Linda Yrlid, Maria Belvisi, Mark Birrell

Cyclo Z alleviates asthma induced by house dust mite (HDM).
Dohyun Lee (Pohang, Republic of Korea), Onyu PARK, Jongsu Jeon, Seoyeong Baek, Hoe-Yune Jung
Effects of Toll-like Receptor Activation on Airway Responses and Inflammation in Guinea Pigs
Yujiao Xiang (Solna, Sweden), Jielu Liu, Mu Nie, Jesper Säfholm, Mikael Adner

Effects of melatonin in an Asthma-COPD overlap model
Cristiane Ribeiro (São Paulo, Brazil), Vitório Scheffer, 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 Kulynych-Miskiv, Costiantyn Shvets, Galyna Korzh, Iryna Makoyda, Nadiia Korzh, Uliana Shevchuk-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

12:45-13:45
INDUSTRY LUNCHE TIME SYMPOSIUM  SEE PAGE 1

12:45-13:45
INDUSTRY VIRTUAL SYMPOSIUM  SEE PAGE 1

Brown 1+2 Session 12:45 - 13:45
Joint session: Updates on inhalers for COPD and asthma
an ERS / Industry Joint Session
Chairs: Frans H.C. De Jongh (Enschede, Netherlands), Antonio Spanevello (Milano, Italy)

12:45
How to choose and use and inhaler
Omar S. Usmani (London, United Kingdom)

12:55
How to monitor and improve inhaler technique
Janwillem W. H. Kocks (Groningen, Netherlands)

13:05
How to assess and improve inhaler adherence
Federico Lavorini (Firenze (FI), Italy)

13:15
Q&A session
Omar S. Usmani (London, United Kingdom), Federico Lavorini (Firenze (FI), Italy), Janwillem W. H. Kocks (Groningen, Netherlands)

Coral 2 Session 13:45 - 15:15
Symposium: Better outcomes for adults with chronic breathlessness: earlier diagnosis and management
Aims: to review healthcare pathways for people living with chronic breathlessness, from their first presentation to palliation, highlighting the role of integrated care throughout; to critically appraise research and clinical care evaluations of integrated diagnostic pathways for chronic breathlessness to achieve earlier diagnosis and treatment; to discuss the role of artificial intelligence in diagnostic pathways for chronic breathlessness; to review the role of nonpharmacological management for chronic breathlessness including the multidisciplinary team and rehabilitation; to discuss specific causes of breathlessness, such as breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse, and their respective management for clinicians to appropriately diagnose and manage breathlessness; to describe complex interventions for distressing breathlessness including breathlessness support services.
### Disease(s)
- Airway diseases
- Interstitial lung diseases
- Pulmonary vascular diseases

### Method(s)
- General respiratory patient care
- Palliative care
- Pulmonary rehabilitation

### Tag(s)
- Clinical

### Target audience
- Adult pulmonologist/Clinician
- Clinical researcher
- General practitioner
- Medical Student
- Medical Technical Assistant
- Nurse
- Patient
- Physician in Pulmonary Training
- Physiologist
- Respiratory physiotherapist
- Respiratory therapist
- Journalist

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

### Programme Details

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<td>13:45</td>
<td>Earlier diagnosis to earlier treatment for people living with chronic breathlessness</td>
<td>Rachael A. Evans (Leicester (Leicestershire), United Kingdom)</td>
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<td>14:00</td>
<td>Nonpharmacological management of chronic breathlessness including rehabilitation and the multidisciplinary team</td>
<td>William Man (Harefield, United Kingdom)</td>
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<td>14:15</td>
<td>Special considerations in complex breathlessness: breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse</td>
<td>Thomas Halvorsen (Bergen, Norway)</td>
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<td>14:30</td>
<td>Integrated breathlessness support services: what are they and what should they include?</td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
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### Coral 1 Session 13:45 - 15:15

#### Symposium: Acute respiratory distress syndrome: update and future treatment

**Aims**
To describe the state of the art in acute respiratory distress syndrome (ARDS) and upcoming treatment options.

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

**Tag(s)**
- Clinical

**Target audience**
- Adult pulmonologist/Clinician
- Clinical researcher
- Nurse
- Respiratory critical care physician
- Paediatrician
- Patient
- Physician in Pulmonary Training
- Physiologist
- Radiologist
- Respiratory physiotherapist
- Scientist (basic, translational)
- Respiratory therapist
- Journalist

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

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>13:45</td>
<td>The new ARDS definition</td>
<td>Lorraine Ware (Nashville, United States)</td>
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<td>14:00</td>
<td>The new European guideline in ARDS: nonpharmaceutical treatments</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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<td>14:15</td>
<td>The new European guideline in ARDS: pharmaceutical treatments and upcoming targets</td>
<td>Danny McAuley (Belfast (Belfast), United Kingdom)</td>
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<td>14:30</td>
<td>Weansafe: how do we wean from mechanical ventilation?</td>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
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<td>Discussion and Q&amp;A</td>
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### Coral 4+5 Session 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.

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<td>14:30</td>
<td>Weansafe: how do we wean from mechanical ventilation?</td>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
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Symposium: Air pollution, pollen and lung health in the climate change era

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

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

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

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

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<tr>
<td>13:45</td>
<td>Pollen exposure, respiratory allergy and asthma: what do we know so far?</td>
<td>Adrian Lowe (Parkville, Australia)</td>
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<td>14:00</td>
<td>Short-term effects of exposure to pollens and other air pollutants: methodological insights for researchers and clinicians</td>
<td>Antonio Gasparini (London, United Kingdom)</td>
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<td>14:15</td>
<td>Air pollution and paediatric respiratory health: little particles and little lungs</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
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<td>14:30</td>
<td>Sex as a modifier of effects of the environment and occupation on respiratory disease</td>
<td>Speaker to be confirmed</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
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Coral 3  
Hot topics: The unfortunate relationship between respiratory disease and infection: challenges which need us to think outside the box

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

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

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

**Tag(s):**  
- Translational

**Target audience:**  
- Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Journalist

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

### 13:45 Sadoul lecture: Dr. Jekyll and Mr. Hyde: why respiratory infectious affect lung health so much?

Tobias Welte (Hannover, Germany)

### 14:00 Injuries in childhood are responsible for lung diseases later in life: the role of infection and allergy

Speaker to be confirmed

### 14:15 The vicious circle of infection and inflammation in lung disease

Speaker to be confirmed

### 14:30 Prevention is better than therapy: why vaccination is a key to a healthier lung?

Speaker to be confirmed

### 14:45 Discussion and Q&A

Gold  
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 Löfler-Ragg (Innsbruck, Austria)

### 13:45 Novel molecular insight into the development of CTEPH

Jurjan Aman (Amsterdam, Netherlands)

### 14:00 The natural history of CTEPH

Marion Delcroix (Leuven, Belgium)

### 14:15 (Sub)segmental CTEPH should be treated by surgery

David Jenkins (Cambridge, United Kingdom)

### 14:30 (Sub)segmental CTEPH should be treated by balloon angioplasty

Xavier Jais (Le Kremlin-Bicêtre, France)

### 14:45 Discussion and Q&A

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

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

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

### Method(s):
- Epidemiology
- General respiratory patient care

### Tag(s):
- Clinical

### Target audience:
- Adult pulmonologist/Clinician
- Clinical researcher
- General practitioner
- Respiratory critical care physician
- Physician in Pulmonary Training

### Chairs:
- Kristin Walter (Chicago, United States)

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### 13:45 Global burden of long COVID
Merel Hellemons (Rotterdam, Netherlands)

### 14:00 Morphine for breathlessness in COPD
Magnus Ekström (Lund, Sweden)

### 14:15 Autotaxin inhibitor treatment for IPF
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

### 14:30 Discussion and Q&A

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### 14:00-14:45
**INDUSTRY SKILLS LAB WORKSHOP**  SEE PAGE 1

### Brown 3

**Session** 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

### Chairs:
- Wim A. Wuyts (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 Nasimudeen, Moe Kyi

#### Use of 1.1-mm probes in transbronchial lung cryobiopsy for diagnosing interstitial lung diseases: a randomized trail
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. Wijsenbeek, 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

#### Telemicine in patients with Idiopathic Pulmonary Fibrosis
Matteo Davi (Pesaro, Italy), Claudia Duranti, Lina Zucchata, 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 Macisac, Helene Manganas, Veronica Marcouix, 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
(, ), 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 Ma, Piyush Ranjan, Yong Huang, Kevin Anstrom, David O’Dwyer, Fernando Martinez, Jack Gilbert, Imre Noth

Discussion and Q&A

Blue 1+2 Session 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

**Chairs:** Rainer G. Viewrondt (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), Ruoran Liu, Benteng Deng, Xuanze Guo, Lilith Trassl, Georgia Giotopoulou, Sabine Behrend, Yang Liu, Ali Yildirim, Georgios Statopoulos, 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-Hsien Chien

Exosome-GCC2 for the early diagnosis and therapeutic target of lung adenocarcinoma: A multicenter trial
Hyun Koo Kim (Seoul, Republic of Korea), Byeong Hyeon Choi, Hyonggin An, Sukki Cho, Sungsoo Lee, Hyeong Ryul Kim, Jong Ho Cho, Ok Hva Jeon, Hyunku Shin, Yeonho Choi

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, Giovanna Maria Stanfoca Casagrande, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Vinicius Du Val Silva, Sabrina Setembre Batah, Heloisa Acurcio Zimerman, Alexandre Todorovic Fabro, Conceição Souto-Moura, Susana Guimarães, Fátima Carneiro, Cláudia 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 Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Agata Raniszewska, Rafał Sokolowski, 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), Alexia Polo Siqueira, Maria Fernanda Santiago Gonçalves, Isabella Lemuqui Tegami, Keila Cristina Miranda, Icaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Rachid Eduardo Noeloto Da Nobrega, Vinicius Du Val Silva, Sabrina Setembre Batah, Heloisa Acurcio 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 Sibille, 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 Yamamoto, Satoshi Nagaoka, Yukihito Kajita, Chisato Maeda, Sousuke Kubo, Kenichi Seki, Yoshinori Nagahara, Shuhei Teranishi, Ken Tashiro, Makoto Kudo, Takeshi Kaneko

Discussion and Q&A
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

**Chairs:** Lena Uller (Lund, Sweden)

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

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

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

- 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

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

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

- 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, Amsgd Gamil, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Michael E Wechsler

- 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, Santiago Quirce, Jonathan Corren

- 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

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

Discussion and Q&A

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

**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 (Beijing, China), Martin O’Hely, Mimi Lk Tang, Sarath Ranganathan, Leonard L. Reber, Jean-François Magnaval, Philippine Lifar

- 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
Shahrriyar 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 Corcueria-Elosegui, Javier Korta-Murua, Olaia Sardón-Prado, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D Kraneveld, Paul Brinkman, Anke-Hilse Maitland - Van Der Zee

Lung function fluctuation patterns may unveil distinct clinical phenotypes in asthmatic children
Sotirios Fouzas (Patras, Greece), Eirini - Sofia Frima, Nikolaos Karantaglis, Dimos Gidaris, Grigoris 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), Denby Evans, Rhea Urs, Elizabeth Smith, Shannon Simpson

Sphingolipid classes and the interrelationship with pediatric asthma risk factors and clinical asthma phenotypes
Yulu Chen (Boston, United States), Antonio Checa, Pei Zhang, Mengna Huang, Rachel Kelly, Min Kim, Yi-Chieh Chen, Kathleen Lee-Sarwar, Nicole Prince, Kevin Mendez, Sofina Jegum, Priyadarshini Kachroo, Su Chu, Jakob Stokholm, Klaus Bønnelykke, Augusto Litonjua, Hans Bisgaard, Scott Weiss, Bo Chawes, Craig Wheelock, Jessica Lasky-Su

Prediction of adult asthma-risk in early childhood using novel Adult aSthma PredIctive Risk scorEs (ASPIRE)
Hasan Arshad (Southampton (Hampshire), United Kingdom), 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

Discussion and Q&A

Yellow 1+2+3
Session 14:15 - 15:30

Oral presentation: Bronchiectasis

Disease(s): Airway diseases

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

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 Shoemaker (Dundee (Angus), United Kingdom), Jan 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, Josie Altenburg, Hossein Fakhrabadi, Michael Chute, James D Chalmers

Blood eosinophils, inhaled corticosteroids and exacerbations in bronchiectasis: Data from the EMBARC registry
Jennifer Pollock (Dundee (Angus), 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 Soyza, Montserrat Vendrell, Stuart J. Elborn, Amelia Shoemaker, 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, Michael Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Antony De Soyza, Montserrat Vendrell, Amelia Shoemaker, Josie Altenburg, Wim Boersma, Stuart Elborn, Stefano Aliberti, Pieter C. Goeminne, James Chalmers
Treatment with the dipeptidyl peptidase-1 inhibitor brensocatib increases the antimicrobial peptide secretory leukocyte peptidase inhibitor (SLPI) in patients with bronchiectasis: results from the WILLOW trial
Lidia Perea (, 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 Elalam, Wojciech R Dolliver, Pietro Nardelli, Ruben San Jose Estepar, Bina Choi, Carrie Pistenmaa, James C Ross, Diego J Maselli, Andrew Yen, Michael H Cho, Raul San Jose Estepar

qPCR and 16S rRNA marker-gene sequencing as endpoints for clinical trials of antimicrobials: iBEST study
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisli G Einarsson, Andrew J Lee, Aya Alkhatib, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malaterre, Michael R Loebinger, James D Chalmers, Francesco Blasi, Charles S Haworth, J Stuart Elborn

Dialogue and Q&A

Amber 3+4 Session 14:30 - 16:50
Skills workshop: SW18 Cardiac ultrasound in the management of pulmonary disease
Aims: Develop a rigorous and systematic approach in performing and analyzing cardiac ultrasound parameters in respiratory disease. Explain systolic function, diastolic function, right heart dysfunction during COPD patients, the management of pulmonary embolism. Explain the hemodynamic consequences of non-invasive ventilation and propose an echocardiographic monitoring for the best settings of non-invasive ventilation. Develop knowledge and understanding of echocardiographic parameters in patients with COPD, pulmonary embolism or requiring non-invasive ventilation.

Disease(s): Pulmonary vascular diseases, Respiratory critical care
Tag(s): Clinical
Chair: Bouchra Lamia (Rouen- Le Havre, France)

14:30 Introduction

14:30 Assessment of diastolic function in COPD patients
Valentina Mercurio (Napoli, Italy)

14:30 Cardiac ultrasound assessment of right heart function
Paul M. Hassoun (Baltimore, United States)

14:30 Cardiac ultrasound for the management of pulmonary embolism
Mario Gerges (Vienna, Austria)

14:30 Hemodynamic consequences of non-invasive ventilation
Bouchra Lamia (Rouen- Le Havre, France)

Amber 1+2 Session 14:30 - 16:50
Skills workshop: SW3 Pulmonary rehabilitation: extending practice to improve health outcomes
A personalised medicine approach
Aims: to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.
Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : General respiratory patient care, Physiology, Pulmonary rehabilitation
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist
Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany)

14:30 Introduction

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)

Purple Session 15:30 - 17:00
Symposium: Pollution, climate changes and sustainable developments
Aims : to focus on our knowledge of pollution, climate changes and health effects and how to manage sustainable developments.

Disease(s) : Airway diseases, Paediatric respiratory diseases, Thoracic oncology
Method(s) : Epidemiology, Public health
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Journalist
Chairs : Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy), Christopher Carlsten (Vancouver (BC), Canada)

15:30 Why fighting against air pollution and climate change is paramount for planetary health
Maria Neira (Geneva, Switzerland)

15:45 The striking scientific evidence of air pollution’s health effects in children and adults
Zorana Andersen (Frederiksberg, Denmark)

16:00 Quantifying the morbidity of polluted air
Francesco Forastiere (Roma (RM), Italy)

16:15 The respiratory health benefits of improved urban exposures
Erik Melén (Stockholm, Sweden)

16:30 Discussion and Q&A

Coral 4+5 Session 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), Florence Schleich (Liège, Belgium)

15:30 The principal immunology of Th17 cells in the lungs
Jay Kolls (New Orleans, United States)

15:45 Th17 cells in COVID-19
Speaker to be confirmed
Symposium: An ageing lung: respiratory disease in the elderly

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

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

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

**Tag(s):** Clinical

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

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

15:30 Cellular changes in the aging lung
Melanie Konigshoff (Pittsburgh, United States)

15:45 Respiratory function in the ageing respiratory system
Georgios Kaltsakas (Athens, Greece)

16:00 Age-related diseases and chronic respiratory diseases
Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)

16:15 Frailty transitions among patients with chronic respiratory diseases
Lies Lahousse (Ghent, Belgium)

16:30 Discussion and Q&A
Coral 3 Session 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
Ehab Bedawi (Sheffield, United Kingdom)

16:30 Discussion and Q&A

INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

Silver Session 15:30 - 17:00

Clinical trials session: ALERT 2

Chairs: Kristin Walter (Chicago, United States)

15:30

15:37

15:44

15:51 Wrap-up by discussant and discussion

16:13

16:20

16:27

16:34 Wrap-up by discussant and discussion
16:56 Closing remarks

Gold Session 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)

Brown 3 Session 15:45 - 17:00

Oral presentation: Cystic fibrosis in adults

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

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

**Chairs:** Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)

**Late Breaking Abstract - A novel treatment for chronic P. aeruginosa pulmonary infection in CF subjects - A phase 1b/2a randomized, double-blind, placebo-controlled, multicenter study to evaluate phage therapy**

**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, Gisli Einarsson, Michael Tunney, Clifford Taggart, Damian Downey

**Pharmacokinetics and safety of brensocatib in patients with cystic fibrosis**
Michael Konstan (Coventry Twp, United States), Patrick Flume, Christina Ramirez, Sherry Li, Ariel Teper, 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 Wosniok, Debora Santoro, Stella Fiorini, Rémi Charretrie, Clara Sanchez, Claudio Procaccianti, Lutz Nachrlch

**Economic impact using a virtual model of care in Cystic Fibrosis**
Paola Iacotucci (Napoli (NA), Italy), Vincenzo Carnovale, Dandi Qiao, Lorenza Ferrillo, Jolanda Somma, Serena Buonaurio, Luigi Massari, Alessandro Sanduzzi Zamparelli, Daniela Savi
Cluster analysis explains heterogeneity in response to elexacaftor/tezacaftor/ivacaftor in people with cystic fibrosis
Federica Bellino (Milano, Italy), Gianfranco Alicandro, Andrea Grammegna, Chiara Premuda, Federica Piedepalumbo, Erica Nazzari, Calogero Scarabba, Valeria Daccò, Francesco Biasi

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 Wiesel, Michav Aviram, Meir Mei-Zahav, Miri Dotan, Dario Prais, Malena Cohen-Cynamberknoh, Michal Gur, 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

Discussion and Q&A

Red 1+2 Session 15:45 - 17:00

Oral presentation: Phenotypes and biomarkers in asthma
Disease(s) : Airway diseases
Method(s) : Imaging Physiology Pulmonary function testing Epidemiology Public health General respiratory patient care Cell and molecular biology
Chairs : Fabio L. M. Ricciardolo (Torino, Italy)

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, Salman 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 Rapsomaniki, Hana Müllerová, Alberto Papi

Cluster analysis to identify distinct clinical asthma phenotypes within ATLANTIS
Pauline Kuks (Groningen, Netherlands), Tatiana Karp, Jorine Hartman, Monica Kraft, Salman Siddiqui, Leonardo Fabbri, Klaus Rabe, Alberto Papi, Chris Brightling, Dave Singh, Maxim Kots, Thys Van Der Molen, Hub Kerstjens, Irene Heijink, Daan Pouswels, 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 Pêtré

Patient-centred composite index for assessment of response to biological therapy for adult severe asthma.
Ekateirina Khaleva (Southampton, United Kingdom), Chris Brightling, Ratko Djukanovic, Sven-Erik Dahlén, Courteney Coleman, Markay 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 Floksstra-De Blok, Leonardo Fabbri, Monica Kraft, Alberto Papi, Klaus Rabe, Maarten Van Den Berge, Tessa Kole, Dave Singh, Craig Galban, Maxim Kots, Christopher Brightling, Salman Siddiqui

Eosinophil-derived neurotoxin determinants and reference values in a middle-aged Swedish population
Suneeela Zaigham (Malmö, Sweden), Robert Movéré, Magnus Molin, Anders Sjöander, Christer Janson, Andrea Malinovschi

Urinary eicosanoids - novel biomarkers in T2-low severe asthma
Matthew Chad Eastwood (Ireland), John Busby, Johan Kolmert, Craig Wheelock, Sven-Erik Dahlén, Pamela-Jane Mcdowell, David Jackson, Ratko Djukanovic, John Matthews, Joseph Arron, Peter Bradding, Chris Brightling, Rekha Chaudhuri, David Choy, Douglas Cowan, Stephen Fowler, Catherine Hanratty, Timothy Hardman, Timothy Harrison, Cecile Holweg, Peter Howarth, James Lordan, Adel Mansur, Andrew Menzies-Gow, Ian Pavord, Douglas Robinson, Samantha Walker, Ashley Woodcock, Liam Heaney
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**

**Blue 1+2**

**Session 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

*Chairs:* Kevin Blyth (Glasgow (Glasgow), United Kingdom), Valentina Pinelli (Sarzana, Italy)

**Serum mesothelin is a biomarker for disease progression and mortality in mesothelioma**

Geraldine 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.**

Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, An Staes, Jan Van Meerbeek, Kris Gevaert, Kevin Lamote

**Pleural fluid mesothelin as a further diagnostic tool in subjects with a histological diagnosis of non specific pleuritic (NSP)**

Valentina Pinelli (Sarzana, Italy), Federica Novelli, Paola Ferro, Massimiliano Sivori, Fiorenza Marugo, Ines Costa, Gianfranco Puppo, Intersimone Donatella, Pier Aldo Canessa, Silvio Roncella

**Exhaled breath analysis predicts treatment response in malignant pleural mesothelioma patients.**

Ellen Heirwegh (Antwerp, Belgium), Eline Schillebeeckx, Eline Janssens, Veerle Surmont, Kristaia Nackaerts, Elly Marcq, Jan Van Meerbeek, 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 Macgregor, Carolyn Macrae, Laura Macnaughton, Tracy Petrie, Susan Smyth, Jen Latham, Lynne Hunter, Rocco Bilancia, Alan Kirk, Craig Dick, Fiona Roberts, Elaine Macduff, Jill Slavin, Hemamalini Pitchamuthu, Gordon Cowell, Simon Sheridan, Mike Gronski, Laura Thomson, Colin Noble, Clinton Ali, Laura Kelly, Elizabeth Sage, Fiona Thomson, Helen Liddicoat, Elaine Smith, Anna Morton, Kevin Blyth

**Qualitative study of patient priorities in the malignant pleural effusion pathway**

Dinesh Addala (Oxford, United Kingdom), Beenish Iqbal, Poppy Denniston, Anand Sundaralingam, Eiab Bedawi, Rob Hallifax, John Wrightson, Najib Rahman

**To study the efficacy of time dependant vs volume dependant chest drain removal protocol for talc slurry pleurodesis in patients with malignant pleural effusion**

Richa Gupta (Vellore (Tamil Nadu), India), Sarah Koshy, Prince James, Ashwin Oliver

**Does a novel Indwelling Pleural Catheter drainage system improve patient experience?**

Hugh Welch (Bristol (Bristol), Eleanor Barton, Edward Beech, Sonia Patole, Louise Stadon, Nick Maskell

**Pressurized Intra-Thoracic Aerosol Chemotherapy (PITAC): preliminary results in malignant pleural effusion**

Maria Giovanna Mastromarino (Pisa, Italy), Fabrizia Calabrò, Gianmarco Elià, Diana Bacchin, Vittorio Aprile, Stylianos Korasidis, Marcello Carlo Ambrogi, Marco Lucchi

**Discussion and Q&A**

**Yellow 1+2+3**

**Session 15:45 - 17:00**

**Oral presentation: Tissue modelling and remodelling**

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

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

*Chairs:* Niki Ubags (Epalinges, Switzerland), Sara Rolandsson Enes (Lund, Sweden)

**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 Dennyeney, Kane Foster, Carolin Turner, Andreas Mayer, Martina Milighetti, Manuela Plate, Kaylee Worlock, Masahiro Yoshida, Jeremy Brown, Marko Nikolic, Arjun Nair, Benjamin Chain, Mahdad Noursedeghi, Rachel Chambers, Joanna Porter, Gillian Tomlinson
Epithelial metabolic stress in IPF: Identifying intervention strategies using a preclinical murine SftpcI73T model of lung fibrosis
Luis Rodriguez (Philadelphia, United States), Aditi Murthy, Yaniv Tomer, Thalia Dimopoulos, Katrina Chavez, Michael Beers

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

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

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

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

Single-cell spatial proteomics depicts novel dynamics involving senescent progenitors in fibrotic lesions in COPD and IPF
Emanuela Elsa Cortesi (Leuven, Belgium), Asier Antoranz, Vincent Geudens, John E. Mc Donough, Bart Vanaudenaerde, Ghislaine Gayan-Ramirez, Marianne S. Carlton, Veerle Janssens, Wim A. Wuyts, Francesca M. Bosisio, Tania Roskams

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

Airway epithelial wound healing is impaired in patients with severe asthma unable to down-titrate anti IL5 biologics
Marianne Bastrup Soendergaard (København N, Denmark), Louise Munkholm Andreasen, Ditte Kjærgaard Klein, Celeste Pursberg

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

Discussion and Q&A

Brown 1+2 Session 15:45 - 17:00
Oral presentation: Technical and epidemiological novelties in paediatric lung function and sleep

Disease(s): Sleep and breathing disorders Airway diseases
Method(s): Physiology Pulmonary function testing Epidemiology General respiratory patient care

Late Breaking Abstract - Nasal nitric oxide measurement in children for the diagnosis of primary ciliary dyskinesia: ERS technical standard
Nicole Beydon (Paris, France), Panayiotis Kouis, June Marthin, Philipp Latzin, Murielle Colas, Stephanie Davis, Eric Haarman, Harris Amanda, Hogg Claire, Kibride Emma, Kuehni Claudia, Marangue Diana, Nielsen Kim, Pendergrast Catherine, Robinson Phil, Rumman Nisreen, Rutter Matthew, Walker Woolf, Ferko 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 (Newcastle, Australia), Ediane De Queiroz Andrade, Patricia De Gouveia Belineo, Vanessa E Murphy, Paul D Robinson, Peter G Gibson, Peter D Sly, Wilfried Karmas, Adam Collison, Joerg Mattes

Determinants of lung function trajectories from birth to 5 years in a South African birth cohort
Diane Gray (Cape Town, South Africa), Carlyle Mcready, Francesca Little, Carvern Jacobs, Shaakira Chaya, Lesley Workman, Mark P Nicol, Zoltan Hantos, Adrian 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 Stainsby, 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-Gantennein, Athanasios G. Kaditis

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 cardiopulmonary polygraphy
Natalie Blyth (Nottingham, 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

Discussion and Q&A

PS-11 in poster area
Session 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

Chairs : Christiane Lex (Goettingen, Germany), Abigail Whitehouse (London, United Kingdom)

The role of respiratory viruses in the association between air pollution and pediatriic visits for wheezing: a time-series analysis.
Sam Louman, Karlijn Van Stralen, Annemie Boehmer

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 Lüning, Anna Asarnoj, Anastasia Filiou, Sabina Wärnberg Gerdin, Magnus Borres, Marianne Van Hage, Cilla Söderhäll, Jon R Konradsen

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 Shital Patil, Yogesh Utage, Abhijit Acharya, Sham Toshniwal

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

Association of FCER2 gene polymorphisms with childhood asthma
Azer Kilic Baskan (Istanbul, Turkey), Berrak Nevin Oztosun, Huseyin Arslan, Ayşe Ayzıt Kilinc Sakalli, Haluk Cezmi Cokugras

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 Nirantar Dukumar, Adel Mansur, Shamil Haroon

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

Green space during pregnancy and the development of asthma up to 27 years of age: The Espoo Cohort Study
Aino K. Rantal a (Oulu, Finland), Ines Pacienza, Harri Antikainen, Jan Hjort, Timo Hugg, Maritta S. Jaakkola, Jouni J. K. Jaakkola

Greenness exposure: beneficial but multidimensional. A review.
Ane Johannessen (Bergen, Norway), Shanshan Xu, Achenyo Peace Abbah, Christer Janson

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

Reduced bronchoalveolar phagocytosis after controlled short-term exposure to wood smoke in healthy humans
Alva Hansson (Umeå, Sweden), Gregory Rankin, Oskari Uski, Maria Friberg, Jamshid Pourazar, Robert Lindgren, Natxo García-López, Christoffer Boman, Thomas Sandström, Anneline Behndig, Alia Muala

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

Joint association of air pollution exposure and inflammation-related proteins in relation to infant lung function
Shizhen He (Stockholm, Sweden), Björn Lundberg, Jenny Hallberg, Susanna Klevebro, Göran Pershagen, Kristina Eneroth, Erik Melén, Matteo Bottai, Olena Gruzieva

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. Rantal a, Maritta S. Jaakkola, Neeshdhi Sharma, Wael K. Al-Delaimy

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

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

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

Outdoor air pollution and asthma in low-and middle-income countries: a systematic review
Achenyo Abbah (Bergen, Norway), Shanshan Xu, Ane Johannessen

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

Household air pollution and lung health in children: A systematic review and meta-analysis
Om Prakash Kurmi (Coventry, United Kingdom), Sathya Swarup Aithal, Ishan Sachdeva, Nandendra Chaudhary

Temporal evolution of PM2.5 levels in relation to Covid-19 mortality in Europe between early-2020 to end-2022 period
Isabella Annese Maesano (Montpellier, France), Jean-Baptiste Renard, Jeremy Surcin, Eric Poincet

Partial pressure of arterial oxygen in healthy at altitude - A systematic review
Aglaia Forrer (Thalwil, Switzerland), Thomas Gaisl, Ahmet Sevik, Michelle Meyer, Luzi Senteler, Mona Lichtblau, Konrad Ernst Bloch, Silvia Ulrich, Michael Furian

Health risk perception profiles in Gela: a latent class analysis
Giacomo Ilardo (Palermo, Italy), Alessandra Pandolfò, Velia Malizia, Giovanna Cilluffo, Salvatore Fasola, Giuseppe Piva, Liliana Cori, Giovanni Viegi, Stefania La Grutta

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
### Poster Session: Advances in diagnosis and biomarker identification in airways disease

**Disease(s):** Airway diseases  
**Method(s):** Epidemiology, Public health, Cell and molecular biology, Transplantation, General respiratory patient care, Physiology  
**Chairs:** Rachel Nadif (Villejuif, France), Chair to be confirmed

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<td>Blood eosinophil count and its determinants in a Chinese population-based cohort</td>
<td>Mei Yang (Chengdu, China), Shijie Tang, Yongchun Shen, Lei Chen, Fuqiang Wen</td>
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<td>Surface receptor expression on circulating and airway eosinophils after inhaled allergen challenge</td>
<td>Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminski, Imran Satia, Nermin Diab, Danica Brister, Jennifer Wattie, Lesley Wilshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau</td>
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<td>Eosinophil phenotypes in circulation and airways of asthmatics after inhaled allergen challenge.</td>
<td>Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminski, Imran Satia, Nermin Diab, Danica Brister, Jennifer Wattie, Lesley Wilshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau</td>
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<td>Association of complement pathway activation with severe eosinophilic asthma in the C-BIOPRED asthma cohort</td>
<td>Cong Dong (Guangzhou, China), Zhen An Deng, Chang Xing Ou, Xin Hua Fu, Chang Zheng Wang, Hua Hao Shen, Mei Ling Jin, Nkouibert Pryseley Assam, Wei Jiang, Ali Versi, Kian Fan Chung, Qing Ling Zhang, Nan Shan Zhong</td>
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<td>Expression of serum periostin and impaired quality of life in asthma patients with and without allergic rhinosinusitis</td>
<td>Somruetai Matupumanon (Bangkok, Thailand), Theerasak Kawamatawong, Putthapoom Lumjaiktase</td>
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<td>Late Breaking Abstract - Urinary nickel level is associated with blood immunoglobulin E among asthma patients.</td>
<td>Chung Shu Lee (Taipei, Taiwan), Chih Hao Chang, Li Ching Chiu</td>
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<td>Clinical asthma phenotypes linked to sputum proteome from Chinese C-BIOPRED cohort</td>
<td>Changxing OU (Guangzhou, China), Zhenan Deng, Lingna Xue, Jian Kang, Yunhui Zhang, Mao Huang, Jinfu Xu, Kewu Huang, Qiang Li, Qingsing Zhang, Kian Fan Chung, Nanshan Zhong, Jiaxing Xie, Qingling Zhang</td>
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<td>Plasma IL-36 subfamily levels impact on clinical manifestations of asthma</td>
<td>Yuki Hoshino (Saitama, Japan), Tomoyuki Soma, Tatsuhiko Uno, Reina Ishii, Kazuki Katayama, Hidetoshi Iemura, Erika Naitou, Takahiro Uchida, Shun Sinomiya, Sachiko Miyauuchi, Yoshitaka Uchida, Kazuyuki Nakagome, Hidetoshi Nakamura, Makoto Nagata</td>
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<td>Possible multiple signalling of MMP-10 in atopic asthma</td>
<td>Nikolaos Tsolakis (Uppsala, Sweden), Andrei Malinovschi, Jörgen Syk, Kjell Alving</td>
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<td>12-LOXs-12(s)-HETE-GPR31 signaling axis mediates immune homeostasis in allergic asthma</td>
<td>Peiyan Zheng (Guangzhou (Guangdong), China), Baoqing Sun</td>
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<td>Effects of Sex Hormones on Asthma Control in Postmenopause</td>
<td>Samia Aissani (Algiers, Algeria), Houria Haouchat, Ali Zitouni</td>
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<td>Sensitization to Staphylococcus aureus toxins in Severe Asthma. The Belgian IgE (BEIgE) study.</td>
<td>Florence Schleich (Liège, Belgium), Eleonore Maury, Claus Bachert, Miekte Jansen, Sandra Gurdain, Jan Van Schoor</td>
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<td>Developing and validating clinical models to identify candidates for allergic rhinitis pre-exposure prophylaxis</td>
<td>Wenting Luo (Guangzhou (Guangdong), China)</td>
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<td>Associations between sputum cell counts and healthcare use across Ontario patients with asthma or COPD</td>
<td>Kimball Zhang (Toronto, Canada), Teresa To, Sylvia Lauks, Melanie Kjarsgaard, Jingqin Zhu, Emilie Terebessy, Parameswaran Nair</td>
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<td>Type 2 inflammation signature using sputum transcriptomics is associated with COPD clinical characteristics</td>
<td>Yuqiong Yang (Guangzhou, China), Junhao Yang, Fengyan Wang, Weijuan Shi, Martin Stampfli, Jeffrey Curtis, Bradley Drummond, Nanshan Zhong, Zhang Wang, Zhenyu Liang, Rongchang Chen</td>
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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 Frössing (Copenhagen V, Denmark), Susanne Hansen, Morten Hvidtfeldt, Asger Sverrild, Celeste Porsbjerg

PS-19 in poster area Session 16:00 - 17:30
Poster session: Pleural interventions and beyond: what's new?

Disease(s): Respiratory critical care, Thoracic oncology, Airway diseases, Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Physiology, Surgery
Chairs: Anand Sundaralingam (Oxford, United Kingdom), Chair to be confirmed

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

Bronchial fistulas complicating pneumonectomy: predictors and treatment
Selma Madhi (Ariana, Tunisia), Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Sonia Ouerghi, Adel Marghli

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

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

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 Zuccastota, Alessandro Di Marco Berardino, Michele Sediani, Francesca Gonnelli, Laura Cirilli, Francesco Maria Porcarelli, Piero Emilio Balbo, Elena Paracchini, Giovanna Elissia Campagnano, Stefano Gasparini, Giampietro Marchetti, Federico Mei

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 P L Lo, Joyce K C Ng, Chin Wing Yu, Fanny W S Ko, Johnny W Chan, David S C Hui, Y C G Lee

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

Intrapleural installation 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 Sotropoulu, Eva Theochari, Ioannis Christopoulou, Mathaios Katsaras, Eirini Zarkadi, Elli Malakounidou, Fotios Sampsonas, Argyrios Tzouvelekis

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

Experiences of patients using a novel digital pump drainage system through an indwelling pleural catheter (IPC).
Asfandyar Yousuf (Loughborough, United Kingdom), Sarah Johnstone, Faye Hinchcliffe, Syed Mohammad, Rajini Sudhir, Rakesh Panchal

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

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

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

To evaluate diagnostic yield of small cup biopsy forcesp 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, Manya Narain Tyagi

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

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

Conscious sedation in bronchoscopy: A randomized controlled trial
Lenda Ben Hmida (Rades, Tunisia), Islam Mejri, Marwa Kacem, Selsabil Daboussi, Samira Mhamdi, Chiraz Aichaouia, Zied Moatami

EBUS-TBNA for the diagnosis of lung parenchymal lesions: a 10 year analysis
Abhimanyu Lal (Solihull (West Midlands), United Kingdom), Isobel Dugdale, See Ling Tan, Muhammad Niazi

Diagnostic yield and safety of EBUS-TBNA: single centre experience over 10 years
Abhimanyu Lal (Solihull (West Midlands), United Kingdom), Isobel Dugdale, See Ling Tan, Muhammad Niazi

Poster session: COVID-19 treatments

**Session 16:00 - 17:30**

**Poster session: COVID-19 treatments**

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

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

**Chairs:** Megan Crichton (Dundee (Angus), United Kingdom), Michal Shiteinberg (Haifa, Israel)

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

**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 (Duesseldorf, Germany), Johannes Holl, Johannes Randerath, Marcel Treml, Lars Hagmeyer, Winfried Randerath

**Virucidal efficacy of cetlypyridinium chloride lozenges against coronavirus and influenza virus**
Tina Peiter (Heidelberg, Germany), Maren Goelzer, Tessa Stahl, Yetunde Kolade, Graça Coutinho, 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 Sirichatrapimuk, Tananchai Petnak, Dararat Eksombatchai, Kanin Thammavaranucupt, Sonmuek Sungkanuparp, Yuda Sutherasan

**Antiviral and anti-inflammatory effects of Erdosteine and MET-1 in SARS-CoV-2 in vitro infection**
Sergio Strizzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Radovanovic, Daria Trabattoni, Pierachille Santus
Impact of low molecular weight heparin (LMWH) on SARS-CoV2 Infection: HEPARIN SARS-CoV2 clinical trial.
Remedios Otero Candelera (Sevilla, Spain), Demetrio González-Vergara, Isabel Caparrós, Alberto García-Ortega, Consolación Rodríguez-Matute, Jorge Moisés, Carolina Marin-Barrera, Javier Rodríguez-Martorell

Lopinavir-ritonavir versus darunavir-norvir for hospitalized COVID-19 patients
Dóra Paróczai (Deszk, Hungary), András Bikov, Andreia Bildaru, Emanuel Bobu, Bianca Cerbu, Iosif Marineu, Stefan Mihaicuta, Stefan Frent

Inhaled corticosteroids for post-hospital rehabilitation treatment of patients with COVID-19
Natalia Chaplynska (Ivano-Frankivsk, Ukraine), Viktoria Rudnyk

Karuna Chavalertsakul (Bangkok, Thailand), Tanachai Petmak, Viboorn Boonsarngsuk, Sommuck Sangkanuparph, Kanin Thammavarananup, Suppachok Kirdlarp, Yuda Sutherasan

Comparison of effectiveness between baricitinib and tolicizumab in severe COVID-19. A retrospective study.
Ioannis Tomos (Athens (Faliro), Greece), Ioannis Grigoropoulos, Chrysavgi Kosti, Serafeim Chrysikos, Antonia Digalaki, Konstantinos Thomas, Georgios Hillas, Dimitrios Boupas, Anastasia Antoniadou, Dimitra Kavatha, Katerina Dimakou

Is Anakinra effective and safe for severe COVID-19 disease? A Comprehensive Systematic Review of 44 studies including 3179 patients
Aliae Abd Rabou Mohamed-Hussein (Assiut, Egypt), Reem Sayad, Abdelrahman Abdelshafi, Islam Abdelala Hammam, Ahmed M. Kedwanwa, Shrouk Alaa Eldein Abdallah, Isham H. Ibrahim

Chronic COPD medications and CoViD-19 mortality- an observational study.
Anastasios Stringaris (HERAKLION, Greece), Georgios Makris, Theodoros Moschopoulos, Eirini Pasparaki, Myrto Plexousakis, Emmanueloul Ferdoutis, Georgios Metelis

Tozorakimab in patients hospitalised with COVID-19: a phase 2, randomised adaptive platform study (ACCORD-2)
Thomas Wilkinson (Southampton (Hampshire), United Kingdom), Miles Carroll, Clive Page, Hitesh Pandya, Rachel Moate, Fred Reid, Chris Kell, Ian C Scott, Dave Singh

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

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 Cvtkovic Kučić

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

A randomised, double-blind, placebo-controlled, multicentre phase 3 trial investigating the efficacy and safety of the angiotensin II type 2 receptor (AT2R) agonist (ATRAG) C21 in COVID-19
Rohit Batta (Maidenhead, United Kingdom), Cecilia Ganslandt, Johan Raud, Göran Tornling, Thomas Bengtsson, Gry Haglund, Anne-Katrine Cohrt, Elin Rosendahl, Maureen Horton

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-2 in poster area**

**Session 16:00 - 17:30**

**Poster session: Respiratory muscle function and rehabilitation**

**Disease(s):** Interstitial lung diseases, Sleep and breathing disorders, Airway diseases, Pulmonary vascular diseases

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

**Chairs:** Christina M. Spengler (Zürich, Switzerland), Mathieu Marillier (Echirolles, France)

**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), Vinicius Carlos Iamonti, Mayra Caleffi Pereira, Renata Pletsch-Assunção, Marcelo Ceneviva Macchione, Pauliane Vieira Santana, Leticia Zumbo 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 Spaas, 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 Jezić, 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 Gruet, Aurélien Philippe, Jeanne Rancic, Nicolas Gendron, Christophe Hédon, Antonia Perez-Martin, Anne Virsolvy, Olivier Cazorla, Yves Dauvilliers, Maurice Hayot, Arnaud Bourdin, Élisa Rossi, David Smadja, Farès Gouzi

The effect of rehabilitation on total lung volume and blood vessel volumes in long covid
Wendel Dierckx (Kontich, Belgium), Kris Ides, Yinka De Meyer, Erik Franek, 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 (Frederiksborg, 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), Valentina Pérez Méndez, Anna Rebeca Hernández González, Javier Carrillo Hernández-Rubio, Angelika Szabó, Estefanía 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. Sooronbaev, 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, Mehdi Senol, Oscar Gorol, Lukas Niekrenz, Ayham Daher, Vaughan Macefield, Michael Dreher, Jens Spiesshoefer

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 Spiesshoefer (Aachen, Germany), Binaya Regmi, Rainer Glückl, Michael Dreher

PS-20 in poster area  Session  16:00 - 17:30
Poster session: Ultrasound in respiratory medicine

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

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

Chairs : Maged Hassan (Alexandria, Egypt), Casper Falster (Odense, Denmark)

Validity evidence of the 2022 ERS thoracic ultrasound Objective Structured Clinical Examination (OSCE)
Pia Iben Petersen (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 Martínez González-Posada (Oviedo, Spain), Juan Cascón Hernández, Pablo Lozano Cuesta, Ramón Fernández Alvarez, Lucía García Alfonso, Francisco Julián López González, Miguel Ariza Prota, Inés Ruiz Álvarez, Ina Guerassimova, Ángela Lanza Martínez, Laura Martínez Vega, Juan Nieves Salceda, Laura Abad Chamorro, Eduardo Sanchez Vázquez, Patricia Álvarez Alvarez, Maria Rodil Riera

Survey on lung ultrasound usage by portuguese pulmonologists
Maria Beatriz Dias Ferraz (Porto, Portugal), Bruno S. Silva, Filipa Correia, Maria Inês Costa, Maria Esteves Brandão, Nuno Cortesão

Pleural irregularity and diaphragm mobility among patients with systemic sclerosis
Anja Lilija Posavec (Zagreb, Croatia), Boris Karanović, Ivana Jezić, Renata Huzjan Korunić, Nevenka Piskač Živković, Josip Tečer, Stela Hrkač, Joško Mitrović

Lung ultrasound based prediction of CT-scan Severity Score in COVID-19
Panaiotis Finamore (Roma (RM), Italy), Emanuele Gilardi, Moises Muley, Tommaso Grandi, Silvia Navarin, Michela Orrù, Chiara Buccì, Simone Scarlata, Francesco Travaglino, Federica Sambuco

Comparison of lung ultrasound findings in patients with pulmonary tuberculosis and lobar pneumonia: a case-control study.
Uma Devadurj (Bangalore (Karnataka), India), Priya Ramachandran, Kavitha Venkatnarayan, Chitra Veluthat, Uma Maheswari K

Role of Lung Ultrasound in detection and assessment of severity of ILD in patients with Systemic sclerosis
Richa Gupta (Vellore (Tamil Nadu), India), Davis Joseph K J, Avinash Nair, John Mathew, Manisha Mane

Diaphragm sonography as an educational aid in CPAP and NIMV treatment
Angelo Longoni (Mariano Comense (CO), Italy), Carla Bassino, Tiziana Cappelletti, Francesca Frassanito, Lorenzo Fusetti, Giacomo Concà, Simone Scarlata, Antonio Paddeu

US training system for ultrasound-guided thoracic interventions
Ana Belén Llanos Gonzalez (La Orotava, Spain), Natalia Arteaga-Marrero, Enrique Villa, Orlando Acosta Fernández, Juan Bautista Ruiz-Alzola, Javier González-Fernández

Diagnostic accuracy of lung ultrasound with elastography in predicting malignant origin of pleural effusions in an emergency department
Rune Wiig (Odense C, Denmark), Casper Falster, Niels Jacobsen, Stefan Posth, August Emil Licht, Christian Laursen

Quantitative US echogenicity to differentiate exudate from transudate pleural effusion
Alaa Amin (Alexandria, Egypt), Mona El Hoshy, Maged Hassan

Diagnostic accuracy of lung ultrasound with elastography in predicting malignant origin of pleural effusions in an emergency department
Rune Wiig (Odense C, Denmark), Casper Falster, Niels Jacobsen, Stefan Posth, August Emil Licht, Christian Laursen

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Rune Wiig (Odense C, Denmark), Casper Falster, Niels Jacobsen, Stefan Posth, August Emil Licht, Christian Laursen

Difference in strain elastosonography between benign and malignant peripheral lung lesions
Ahmed Farag Abouelhoun (Alexandria, Egypt), Mona Saeed El-Houshy, Essam Gouda Hassanein, Ayman Ibrahim Baess, Rania Ahmad Sweed, Doaa Mokhtar Emara

A retrospective review of the sonographic features of rheumatoid pleuritis.
Hui Guo (Northcote (VIC), Australia), Beenish Iqbal, Dinesh Addala, Anand Sundaralingam, Poppy Denniston, Najib Rahman
Replacing fluoroscopy with ultrasound to evaluate diaphragm excursion? A method comparative study.
Søren Helbo Skaarup (Aarhus C, Denmark), Peter Juhl-Olsen, Brian Bridal Logstrup

Assessing the accuracy of pleural puncture sites as determined by clinic-radiological examination versus Lung Ultrasound- a prospective study.
Naveen Dutt (Jodhpur (Rajasthan), India), Shahir Asfahan, Nishant Kumar Chauhan, Ramniwas -, Mahendra Kumar Garg, Pawan Kumar Garg, Gopal Krishna Bohra, Nitin Kumar Bajpai

Point-of-care ultrasound for the assessment of subglottic and cervical tracheal stenosis: A Prospective, Multicenter, Exploratory Study
Gang Hou (Beijing, China), Jieru Lin, Mingming Deng

Validation of transthoracic shear-wave ultrasound elastography in diagnosing pleural lesions
Yao-Wen Kuo (Taipei City, Taiwan), Yen-Lin Chen, Huey-Dong Wu, Hao-Chien Wang

Evaluation Of Atherosclerosis As A Risk Factor in COPD Patients By Measuring The Carotis Tunica Intima-Media Thickness.
Ali Firinciogluglari (Nicosia, Cyprus), Hakan Ertürk, Mujgan Firinciogluglari, Cigdem Biber

Comparison of diagnostic yield and complications in ultrasound-guided thoracocentesis versus non-ultrasound guided thoracocentesis in a Level 3 Hospital
Niamh Boyle (Celbridge, Ireland), Jack Mccarthy, Caitlyn Paclibar, Colm Quigley

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
Chairs : Arne Drews (Grimma, Germany), Chair to be confirmed

Epigenetic features in newborns associated with preadolescence lung function and asthma acquisition during adolescence
Mohammad Nahian Ferdous Abrar (Memphis, United States), Hongmei Zhang, Wilfried Joachim Jurgen Karmaus, John Holloway, Hasan Arshad, Yu Jiang

Lung function trajectories and their associations with comorbidity markers.
Sigrid Anna Aalberg Vikjord (TRONDHEIM, Norway), James P Allinson, Arnulf Langhammer, Lowie Etienne Vanfleteren

Lung development genes, adult lung function and cognitive traits
Mohammad Talaei Pashiri, Laura Portas, Sheena Waters, Benjamin M Jacobs, Charles R Marshall, Cosetta Minelli, Seif O. Shaheen

Type-2 inflammation is associated with accelerated lung function decline in individuals with chronic airway disease from the general population
Yunus Çolak (Espergærde, Denmark), Shoaib Afzal, Jacob L. Marott, Børge G. Nordestgaard, Peter Lange

Advanced glycation end products (AGEs) in relation to COPD and lung function: the Rotterdam Study
Tianqi Lu (Rotterdam, Netherlands), Lies Lahousse, Sara Wijnant, Jinhuan Chen, Guy Brusselle, Mandy Van Hoek, M. Carola Zillikens

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

Impact of low lung function in atherosclerotic cardiovascular disease
Shoaib Afzal (Herlev, Denmark), Børge G. Nordestgaard, Yunus Colak

Diet quality, ventilatory function and respiratory impairment in Colombian adults – preliminary findings from the Cartagena Cohort Study
Maria Stephany Ruiz-Diaz (Cartagena de Indias, Colombia), Gustavo Mora-Garcia, Ana Luiza De Lima Curi Hallal, Ziyi Xu, Diana Mena-Yi, Francisca De Castro-Mendes, Elmer Fernandez, Carla Tarazona-Meza, Fernando Manzur-Jattin, Amileth Suarez-Causado, Edgar Vergara-Dagobeth, Nerlis Pajaro-Castro, German Otero-Marrugo, Federico Prada, Rodrigo Villegas, Vanessa Garcia-Larsen

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
The effects of body mass index on lung vital capacity in healthy Chinese adults
Siyu Dai (Hangzhou, China), Feng Chen, Fanjing Meng, Le Wang, Lingxiao Ye, Jianping Wang, Dingbo Shu, Meiqi Li, Yajiao Chen, Xiaochen Liu, Wanzhen Yao, Xiangyue Xiao, Yanjing Zhang, Yong Chen, Jie Liu, Yufei Hua, Jianping Ding

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

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 Carrozozi, Giovanni Viegi

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

The interaction effect between genetic risk score and obesity on asthma and lung function
Tsen Hsin Tai (Kaohsiung City, Taiwan), Tsu-Nai Wang

The war in Ukraine and the spread of tuberculosis in Europe
Ihor Semianiv (Chernivtsi, Ukraine), Liliia Todoriko, Olena Pidverbetska, Inga Yeremenchuk, Yana Toderika

Current etiologies of hemoptysis in a tuberculosis-endemic country.
Meriem Mjid (Tunis, Tunisia), Asma Zargouni, Khadija Euchi, Mouna Aouini, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Abir Hedhli, Besma Dhaibri

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

bronchogenic carcinoma in women
Chaimae Belhaj (Casablanca, Morocco), Hajar Arfaoui, Hasnae Jabri, Wi'am El Khattabi, Hicham Afif

Diagnostic difficulties in tuberculosis pleural effusion in adults
Tatiana Osipov (Chisinau, Republic of Moldova), Iulia Ghelis, Adriana Niguleanu

Prevalence of respiratory symptoms and lung diseases in lung cancer screening program
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Tomi Kovacevic, Ana Milenkovic, Bojan Zaric, Goran Stojanovic, Darijo Bokan

PS-15 in poster area
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

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, Hiroto Murao, Yuki Takigawa, Atsushi Torii, Arisa Yamada, Yuka Shinohara, Hidemasa Niwa, Masahiro Sano, Chiyoe 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 Reliability of the Clinical Treatment Outcome for Advanced Non-Small-Cell Lung Cancer in Patients with COVID-19 Infection
Kristina Krpina (Strmec Samoborski, Croatia), Ėna Tolić, Dora Darapi, Ana Hećimović, Dina Mihelćić Korte, Miroslav Samaržija, 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, Asna 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

Exploration of anticancer drug response prediction model using patient derived organoids with ALK-positive lung cancer
Hyeong Jun Cho (Seoul, Republic of Korea), Sang-Yun Lee, Dong Woo Lee, Seung Joon Kim, Chang Dong Yeo

Smoking status at time of diagnosis affects the efficacy of anti-PD-1/L1 therapy in patients with advanced non-small cell lung cancer
Kim Kyu Yean (Seoul, Republic of Korea), Kim Jin Woo, Yeo Chang Dong

PD-L1 expression on NSCLC lung tumors is affected by the presence of COPD.
Martina Maria Ferrara (Padova, Italy), Mariaenrica Tine, Umberto Semenzato, Giulia Frasson, Davide Biondini, Marco Damin, Federica Pezzuto, Fiorella Calabrese, Simonetta Barald, 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 Alfórja, 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 Wohle (München, Germany), Lea Daisenberger, Julia Walter, Lucie Heinzerling, Thomas Pfugler, 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-17 in poster area
Poster session: Sarcoidosis: challenges in disease assessment and management of complications
Disease(s) : Interstitial lung diseases, Airway diseases, Sleep and breathing disorders
Method(s) : Imaging, General respiratory patient care, Epidemiology, Pulmonary function testing, Physiology, Pulmonary rehabilitation, Public health
Chairs : Paolo Spagnolo (Padova (PD), Italy)
Long-term effectiveness of infliximab treatment in refractory sarcoidosis
Angéla Mikáczó (Nyírábrány, Hungary), Ildikó Horváth, László Brugóš, Anna Sárközi

Lung Texture Analysis to phenotype Sarcoidosis
Andrew McCorkell (Belfast, United Kingdom), Cormac Mecool, 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, Andrea-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 Caballeria Lamelas (Badalona (Barcelona), Spain), Xavier Alsina Restoy, Rodrigo Torres Castro, Elena Gimeno Santos, Lilian Solis Navarro, Joel Francesqui, Fernanda Hernández González, Manel Ramos Casals, Isabel Blanco, Jacobo Sellarés

Severe sarcoidosis: Management and prognosis
Rihab Jebali (Tunis, Tunisia), Soumaya Ben Saad, Amani Ben Mansour, Azza Slim, Hafaoua 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 Ruaoro, Guido Maiello

Characteristics of sarcoidosis patients admitted to hospital – one center experience
Karol Bączek (Łódź, Poland), Joanna Miłkowska-Dymanowska, Wojciech Piotrowski

Therapeutic doses of efzofitimod significantly improve multiple pulmonary sarcoidosis efficacy measures
Nelson Kinnersley (Harpenden, United Kingdom), Abhiheeth Chandrakekaran, 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 Caffarelli, 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
Lara Letizia Latini (Ancona, Italy), 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, Raúl 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, India Sofia Dalla Rosa, Gioele Castelli, Elisabetta Cocconcelli, Elisabetta Balestro, Paolo Spagnolo
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

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 Strøier Bøge, Frederik Fouirnaies Buchvald, Kim Gjerum Nielsen

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

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

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

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

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

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

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, İsmail Güzelkâş, Birce Sunman, Meltem Akgül Erdal, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

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

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), Aysel Tana Aslan, Pelin Asfuroğlu, Nursima Kunt, Ali Ersoy, Mehmet Kose, Gökçen Ünal, Sevgi Pekcan

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

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

Evaluation of Children with Stridor by Flexible Bronchoscopy
Mukaddes Agirtici (Ankara, Turkey), Güzem Özcın, Fazilcan Zirek, Mervenur Teken, Secahattin Bayav, Nazan Çobanoğlu
**Digital health interventions for chronic obstructive pulmonary disease and asthma**

**Session 16:00 - 17:30**

**Poster session:** Digital health interventions for chronic obstructive pulmonary disease and asthma

**Disease(s):** Airway diseases

**Method(s):** Epidemiology, Public health, General respiratory patient care, Physiology, Pulmonary function testing, Imaging, Palliative care, Pulmonary rehabilitation

**Chairs:** Io Hui (Edinburgh, United Kingdom), Holger Woehrle (Ulm, Germany)

**Digital platforms may enhance asthma outcomes when integrated with virtual care**
Leanne Kaye (San Diego, United States), Vy Vuong, Urvashi Patel, Douglas Mager, Meredith Barrett

**Development of a registry to assess adherence and digital inhaler utilization in real-world patients with asthma (AURORA): a modified Delphi study**
Mechteld Wiertz (Zwolle, Netherlands), Amber Eikholt, Anneke Ten Brinke, Els Weersink, Huib Kerstjens, Irene Van Weerdts, Johannes In 'T Veen, Kornelis Patberg, Martijn Goosens, Niels Chavannes, Sandra Been-Buck, Titia Klemmeier, Job Van Boven

**Digital inhaler preferences of asthma patients and healthcare providers: a discrete choice experiment**
Amber Eikholt (Zwolle, Netherlands), Job Van Boven, Tumm Ren Tay, Joy Lee, Mark Hew, Asia N Rashed, Christina Baggott, Sukeshi Makhecha, Louise Fleming, Richard Costello, Amy Chan

**Descriptive analysis of conversational agent usage characteristics in an asthma app**
Selahattin Çalışoğlu (Hertfordshire, United Kingdom), Anıl Başpinar, Aslı Yıldız, Mustafa Dürmuş

**Electronic peak flow in asthma – usefulness in pregnant and non-pregnant patients**
Dorothy Ryan (Dublin 3, Ireland), Deirdre Long, Finbarr Harnedy, Rebecca Borton, Richard W. Costello

**Accelerating asthma diagnosis and treatment optimisation through a technology enabled home assessment program**
Megan Robshaw (Gloucester, United Kingdom), Helen Parrott, Emma Raywood, Dandi Qiao, Eric Harker

**Addressing asthma management gaps with a respiratory digital ecosystem: A preliminary analysis**
Christopher Lieskai (London (ON), Canada), Joseph Cafazzo, Madonna Ferrone, Denise Ng, Anna Hussey, Quynh Pham, Cailey Ranot, Paul Mastoridis, Shumit Saha, Karen Mezzi

**Evaluation of current self-management strategies in iOS and Android mobile applications on patients with asthma**
Natsumi Nomura (Urayasu, Chiba, Japan), Jun Ueki, Emika Sano, Megumi Ikeda, Norihiro Harada, Hiroo Wada

**Asthma-related goals to motivate adherence**
Ayana Martins (Pfäffikon SZ, Switzerland), Giuseppe Ranieri

**Effectiveness of mobile-based rehabilitation in COPD patients: feasibility study from rural Rajasthan**
Neeti Rustagi (Jodhpur, India), Naveen Dutt, Suseendar S, Navratan Suthar

**Quality and compliance to home-based spirometry in COPD patients**
Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, Joanna C Porter, John R Hurst, Amos A Folarin
Feasibility of wearable smart shirt technology for daily life physiology and symptom assessment in COPD
Hayley Lewthwaite (Merewether, Australia), Gennaro D'Elia, Sarah Johnson, Peter Gibson, Troy Cross, Vanessa M Mc Donald

A digital mindfulness-based intervention for COPD patients: a pilot study investigating the effects on psychological distress and stress
Florian Vafai-Tabrizi (Wien, Austria), Hannah Tschenett, Georg-Christian Funk, Urs Markus Nater

Telemonitoring and telerehabilitation in severe COPD patients awaiting lung transplant: a descriptive study
André Filipe Santos Nunes (Ponta Delgada, Portugal), Marta Santos, Cláudia Costa, Joana Barbosa, Cristina Santos, Fátima Rodrigues, Cristina Bárbara

Impact of symptoms and disease severity on digital mobility outcomes in COPD
Dimitrios Megaritis (Newcastle upon Tyne, United Kingdom), Joren Buekers, Tecla Bonci, Emily Hume, Lisa Alcock, Alison Yarnall, Encarna Mico Amigo, Philip Brown, Christopher Buckley, Silvia Del Din, Carlos Echevarria, Claudia Mazzà, Lynn Rochester, Judith Garcia-Aymerich, Ioannis Vogiatzis

Telemonitoring and Symptoms and Lung Function in COPD for Early Detection of Exacerbations
Mustafa Abdö (Grosshansdorf, Germany), Anne Kirsten, Hans Klose, Tim Oqueka, Barbara Karlsoe, Erwin Junker, Daniel Drömann, Thomas Bahmer, Klaus.F. Rabe, Henrik Watz

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

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 (Vancouver, Canada), Joren Buekers, Inês Cobo, Jorge Lemos, José Marchena, Tecla Bonci, Brian Caulfield, Silvia Del Din, Heleen Demeyer, Anja Frei, Jeff M. Hausdorff, Anisaoa Ionescu, Kiamar Aminmin, Jochen Klenk, Ennara Mico Amigo, Paolo Piraino, David Singleton, Oleksandr Sverdlov, Lynn Rochester, Thierry Throosters, Judith Garcia-Aymerich

Quantification of smoking-related airway remodelling in COPD, using a novel fast-response capnometer
Rui Hen Lim (Cambridge, United Kingdom), Laura Wiffen, Henry Broomfield, Daniel Neville, Leenar Talker, Ahmed Selim, Julian C Carter, Scott T Weiss, Gabriel Lambert, Gail Hayward, Thomas Brown, Vijaykumar Elango, Anoop Chauhan, Ameca X Patel

Telemonitoring of patients with COPD: impact beyond hospital admissions
Élin Almeida (Guarda, Portugal), Filipa Jesus, Joana Ribeiro, José Manuel Silva, Luís Ferreira

PS-6 in poster area

Poster session: Real-life studies in asthma: all the way to clinical remission

**Diseases**: General respiratory patient care, Pulmonary function testing, Physiology, Public health, Epidemiology

**Methods**: Airway diseases, Pulmonary vascular diseases

**Chairs**: Celeste Michala Porsbjerg (Copenhagen, Denmark), Andrea Portacci (Taranto, Italy)

**Treatments Patterns of Patients Who Initiate Biologics for Severe Asthma Across USA, Japan, & Europe**
Joshua Harvey (Upper Providence, United States), Samantha N Valliant, Shiyuan Zhang, George Mu, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Takeo Ishii, Takeo Suzuki, Hideaki Kunishige, Rafael Alfonso-Cristiancho

**Clinical remission following biologic initiation in severe asthma: results of the International Severe Asthma Registry (ISAR)**
Tham T. Le (Clarksburg, United States), Ghislaine Scelo, Trung N Tran, Malin Faregås, Neil Martin, Andrew N. Menzies-Gow, Wang Eileen, Michael Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Luis Perez-De-Llano, Borja G Cosio, Piotr Kuna, Diahn-Wargh Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Riyadh Al-Lehebi, João A. Fonseca, Chintook Rhee, Jorge Máspero, Mariko Koh Siuye, George C Christoff, Toddor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price

**Characteristics associated with clinical remission in patients with severe asthma who initiate biologics**
Luis Pérez De Llano (Lugo, Spain), Ghislaine Seelo, Trung N Tran, Tham T. Le, Neil Martin, Malin Fagerås, Andrew N. Menzies-Gow, Eileen Wang, 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-Wargh Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Nikolaos G. Papadopoulos, Riyadh Al-Lehebi, João A. Fonseca, Chintook Rhee, Jorge Máspero, Mariko Koh Siuye, George C. Christoff, Toddor 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)

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, Wassem Ahmed, Tom Keeley, Josh Barazetti-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

An evaluation of factors associated with asthma remission for individuals on biologic therapy
Sarah Rhoads (Denver, United States), Michael Wechsler

Real-world experience of mepolizumab in severe eosinophilic asthma – five years outcomes
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, İvo 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 (Zug, Switzerland), Peter Van Iperen, Daiana Stolz, Florian Charbonnier, Pierre-Olivier Bridevaux, Peter Jandus, René Fiechter, Jörg D. Leuppi, Thomas Hauser, Nikolay Pavlov, Thomas Scherer, Michael Huber, Andrea Azzola, Andreas Piecyk, Thomas Rothe

Attitudes and experiences of patients and healthcare practitioners towards asthma medication prescription and adherence in the UK
Xiuimin 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 (Arquillos (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 (, Peru), Xiaomeng Xu, Shiyuan Zhang, Diahn-Warrn 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, Patrice Menezes, Ronan Valladares, Juliana Queiroz, Alejandro Raimondi, Fayaz Aziz, Maria Laucho-Contreras, Emilio Pizzichini, Saeed Noibi
Benralizumab effectiveness in severe eosinophilic asthma and co-presence of bronchiectasis: a “real-world” retrospective study.
Raffaele Campisi (Portopalo (SR), Italy), Santi Nolasco, Pietro Impellizzeri, Maria D'Amato, Corrado Pelaia, Andrea Portacci, Luisa Ricciardi, Giulia Scioscia, Nunzio Crimi, Girolamo Pelaia, Giovanna Elisiana Carpagnano, Claudia Crimi

Real-life oral corticosteroid sparring effects of biologic treatment on eosinophilic asthma, five years of follow-up
Soran Peshbahar (Risskov, Denmark), Anne Sofie Bjerrum

PS-4 in poster area

Poster session: Cutting-edge approaches to model and treat lung disease

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

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

**Chairs**: Mareike Lehmann (Marburg, Germany), Thomas Wilkinson (Southampton (Hampshire), United Kingdom)

Recapitulating morphological and functional characteristics of distal airways in tubular organoids to model chronic obstructive diseases
Isabelle Dupin (Bordeaux, France), Elise Maurat, Katharina Raasch, Pauline Henrot, Maeva Zysman, Matthieu Thumerel, Laetitia Andrique, Patrick Berger, Pierre Nasso, Gaëlle Recher

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 Ohme, 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 bronchiolar 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, Maluksen Khan, Djoke V. Gosliga, Tessa Kolé, 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 hyperplastic remodeling
Eder Fredy Mateus Medina (Barcelona, Spain), Nadia S. Brienza, Santiago Sánchez-Cabús, Vicente Plaza, David Ramos Barbon

Patient-derived preclinical in vitro platforms to assist therapeutic intervention
Giulia Raggi (Bern, Switzerland), Nuria Roldán, Mirjam Kienler, Arunima Sengupta, Lea De Maddalena, Laurène Froment, Marta De Menne, Janick D. Stucki, Marriana Kruithof-De Julio, Nina Hobi

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, Lian G Heaney, Peter Howarth, Ian D Padvor, Chris E Brightling, Timothy Sc Hinks, Rekha Chaudhuri

Development of a Xenopus-based assay for high-throughput evaluation of mucociliary flow
Maria Chatzifrangkeskou (Nicosia, Cyprus), Ioanna Antoniades, Andria Koule, Panayiotis Kouil, 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 Danilschenko, Aditi Kuppe, Tihomir Rubil, Simon Gräber, Julia Diirr, Stephanie Thee, Mehrak Yoosefi, Jobst Röhmel, Marcus A. Mall

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), 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

PRS-400 Anticalin® proteins targeting Jagged-1 reduce mucus production in preclinical models of muco-obstructive lung disease
Katharina Heinzelmann (Hallbergmoos, Germany), Matthias Hagner, Janet Peper-Gabriel, Athanasios Fysikopoulos, Thomas Jaquin, Diana Jaquin, Eva-Maria Hansbauer, Rachida Siham Bel Aiba, Mary Fitzgerald, Shane A. Olwill, Gabrielle Matschner

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, Anthony Kicic

Highly selective furin inhibition as a therapeutic approach for chronic obstructive pulmonary disease
Lisa Douglas (Belfast, United Kingdom), James A Reihill, Tatjana Odriljin, S Lorraine Martin

Targeting deubiquitinases for the treatment of COPD
Amy Hendren (Belfast, United Kingdom), James Reihill, Richard Wilkinson, Ian Lob, Lorraine Martin

Exercise improves muscle function in COPD by affecting MSTN expression
Lijiao Zhang (Kunming, China), Jingge Qu, Danyang Li, Yafei Rao, Yongchang Sun

Genetic predisposition for low functional status in COPD
Rui Marçalo (Aveiro, Portugal), Guilherme Rodrigues, Miguel Pinheiro, Sonya Neto, Sofia L. Marques, Paula Simão, Vitória Martins, Lília Andrade, Maria Aurora Mendes, Vera Afreixo, Gabriela Moura, Alda Marques

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

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 Kjaer Kristensen, Elisabeth Bendstrup, Rikke Sørensen, Tor Biering-Sørensen, Charlotte Ulrik, Jørgen Vestbo, Jens-Ulrik S. Jensen

Smoking-dependent association of serum brain-derived neurotrophic factor (BDNF) with the pulmonary function test parameters in COPD
Elina Aleksandrova (Stara Zagora, Bulgaria), Dino Dimov, Tanya Tacheva, Kahan Celik, Tatjana Vlaykova

Identification of a panel of circulating miRNAs for the detection of COPD
Noemi Cerón Pisa (Palma, Illes Balears, Spain), Amanda Iglesias, Aina Martin-Medina, Merixell López, Josep Luis Valera, Angel Rios, Rocío Martínez, Aarne Fleischer, Nuria Toledo, Jaume Sauleda
Identification of novel Hedgehog signalling modulators altered in COPD patients
Laure M. G. PETIT (Reims, France), Randa Belgcacemi, Julien Ancel, Pauline Mulette, Audrey Brisebarre, Myriam Polette, Gaëtan Deslée, Jeanne-Marie Perotin, Valérian Dormoy

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

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

Primary cilium (PC) associated BBSome gene 1, 7 and 9 expression during the 2D and 3D culture of mesothelial cells under oxidative stress.
Rajesh Jagirdar (Larissa, Greece), Erasmia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Ourania Kotsious, Chrissy Hatzoglou, Sotirios Zarogiannis, Konstantinos Gourgouliannis

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

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

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

A new method to estimate human bronchial epithelial cells ciliary beat frequency
Stefano Palea (Labege, France), Sekou Diarra, Alain Kamgoué

Late Breaking Abstract - Knocking-down FAM13A during lung epithelial differentiation alters the development of cilia
Linda Yrlid (Gothenburg, Sweden), Jenny Horndahl, Rebecka Svärd, Lynda Hogström, Russel Hamilton, Ilaria Furlan, Fredrik Karlsson, Linda Sundström, Felix Gnerlich, Stefan Vollmer

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

PS-5 in poster area

Session 16:00 - 17:30
Poster session: Sleep-disordered breathing in other respiratory diseases and nocturnal hypventilation

Disease(s): Sleep and breathing disorders, Thoracic oncology, Airway diseases
Method(s): Epidemiology, Surgery, Public health, General respiratory patient care, Physiology, Pulmonary function testing, Imaging

Chairs: Chair to be confirmed

Assessment of sleep quality in Chronic obstructive pulmonary disease patients with emphysema
amal chennoufi (tunis, Tunisia), Moussa Chirine, Rouis Houda, Ghourabi Asma, Khattab Amel, Khouaja Ibtihel, Mhiri Fatma, Bayahi Leila, Zendah Ines, Maalej Sonia
Prevalence of sleep disorders and disturbances related 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
Michail Fanaridis (Heraklion, Greece), Iozole Bouloukaki, Georgios Statidakis, Konstantina Lyroni, Stilian Viziriannaki, Georgios Pitsidianakis, Nikolaos Tzanakis, Sophia Schiza

Smoking-induced disturbed sleep: A Distinct Sleep-Related Disorder - experience on 4347 patients
Athanasia Pataka (Thessaloniki, Greece), Ioanna Grigoriou, Paschalia Skalisti, Ioanna Papagiouvanii, Anastasia Michailidou, Konstantinos Charalambidis, Serafeim – Chrysovalantlis Koutoulas, Konstantinos Porphis, 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 Emiraldioğlu (Ankara, Turkey), Merve Begum Ozturk, Halime Büyü kaşan, Ismail Güz elkas, Dilber Ademhan, Beste Özeszen, 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 Beauperthuy Levy, Jose Gomez Olivas, Aldara García Sanchez, Irene Cano Pumarega, Amina Bekki, Marina Inglés Azorin, Juan José Jiménez Aguilera, Alba Cerveró Rubio, Pilar Calvilla Batllés, Sergio Mompean Rodriguez, David Jiménez Castro, Miguel Ángel Martínez García

Impact of intermittent and sustained nocturnal hypoxic 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 Benzouid, Mahdi Martani, Mohamed Kheireddine Bourahi

Bicarbonate as predictor of sleep-related hypoventilation
Joël Julien Herzig (Zürich, Switzerland), Sanja Pocrncic, Esther Irene Schwarz

Prevalence and predictors of obesity hypoventilation syndrome in patients with obstructive sleep apnea in a tertiary care institution in South India
Barney Isaac (Vellore (Tamil Nadu), India), Chithra Alexander, Roselin John, Anitha Barney, Balamugesh Thangakunam, Devasarayam Christopher

Starting home mechanical ventilation associates with reduced rate of hospitalization in people with obesity hypoventilation syndrome: The population-based DISCOVERY study
Jonas Emarsson (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 Mammaletzi, Evangelia Kouidi
## PS-13 in poster area

**Session**

**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

### Chairs:**
José Miguel dos Santos Castro Padilha (Porto, Portugal), Malin Axelsson (Malmö, Sweden)

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<td>Hypoventilation in patients with Prader-Willi syndrome across the pediatric age</td>
<td>Catherine Chen (Bron, France), Julia Ioan, Marine Thieux, Marc Nicolino, Patricia Franco, Laurianne Coutier</td>
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<td>Definition of diaphragmatic sleep disordered breathing in Duchenne Muscular Dystrophy</td>
<td>Federica Trucco (Genova (GE), Italy), Matthew Davies, Alberto Zambon, Deborah Ridout, Francois Abel, Francesco Muntoni</td>
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<td>Inhalation therapy: educational intervention to avoid complications</td>
<td>Carla Barros (Vila Boa de Quires, Portugal), Mónica Pinheiro</td>
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<td>Psychological vulnerability mediates the relationship between pain perception in stable COPD patients.</td>
<td>Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benitez, Sofía Hernández Hernández, Alejandro Heredia Ciuró, Andrés Calvache Mateó, Miguel Hernández Serrano, María Carmen Valenza</td>
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<td>Assessing health status of patients with COPD using CAT and HADS screening tools: A cross-sectional study</td>
<td>Helga Jonsdottir (Reykjavik, Iceland), Þ. Soley Ingadottir, Stella Stefansdottir</td>
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<td>Impact of multimorbidity on depressive symptoms in self-reported COPD</td>
<td>Jungeen Lee (Kingston, United States)</td>
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<td>Partnership-based nursing practice framework for patients with chronic obstructive pulmonary disease and their families</td>
<td>Helga Jonsdottir (Reykjavik, Iceland), Bryndís Halldórsdottir, Þ. Soley Ingadottir</td>
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<td>Sputum colour as an indicator of quality of life in patients with bronchiectasis</td>
<td>Leticia Bueno Freire (Barcelona, Spain), Patricia Oscanoa, Victoria Alcaraz Serrano, Andrea Palomeque, Rubén López Aladid, Nil Vázquez, Roberto Cabrera, Rosamar Amaro, Laia Fernández Barat*, Antoni Torres*</td>
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<td>Pulmonary Rehabilitation Intervention to Maintain Exercise Behavior (PRIMEb) – a motivational analysis.</td>
<td>Duarte Pinto (Matosinhos, Portugal), Nuno Macedo, Raquel Marques, Maria João Cunha, Sónia Rocha, Ana Carvalho, Jorge Encantado, Vânia Rocha, Paulino Sousa, Paulo Machado, Miguel Padilha</td>
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<td>General practitioner's referencing habits to pulmonary rehabilitation in a Portuguese urban area</td>
<td>Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Paula Simão, Patrício Costa, José Miguel Padilha</td>
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<td>A case study of a nurse-led maintenance pulmonary rehabilitation programme</td>
<td>Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patrício Costa, José Miguel Padilha</td>
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<td>How many patients with sleep apnoea experience pressure discomfort from the CPAP mask? How can pressure discomfort from the CPAP mask best be prevented?</td>
<td>Lonnie Sneistrup (Svendborg, Denmark), Anne Dichmann Sorknes, Helle Guldager Corydon</td>
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<td>Pressure injuries and respiratory devices: descriptive observational study</td>
<td>Margherita Beretta (Milano, Italy), Cristina Piola, Francesco Blasi, Andrea Bellingeri, Enrico Maria Marone, Barbara Sappa</td>
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<td>Repercussions of rehabilitation nurse’s intervention on critical patients' ventilation with inspiratory muscle training</td>
<td>Luís Estevão (Matosinhos, Portugal), Maria José Gomes, Liliana Silva</td>
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<td>Sex, functional impairment, lung injury, and rib fracture pattern impact on disability in patients with a longer hospital stay.</td>
<td>Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benítez, Sofía Hernández Hernández, Javier Martín Nuñez, Laura López López, Irene Cabrera Martos, Marie Carmen Valenza</td>
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<td>Correlation study between sleepiness while driving, and daytime sleepiness.</td>
<td>Alejandro Pastor Campo (Sant Boi de Llobregat (CT), Spain), Victoria Pastor Campo, Isabel Portela Ferreño</td>
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<td>Patient education in self-care management of individuals with COPD in Turkey</td>
<td>Gamze Oğuz (Şişli/Esentepe, Turkey), Merve Kıymaç, Sari, Rahşan Çevik Akyıl, Zehra Durna</td>
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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 Sørøensen

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

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

Oscillometry parameters in chronic cough
Hazim Abozid (Wien, Austria), Chiara Veneroni, Sylvia Hartl, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Pasquale Pio Pompilio, Emiel Fm Wouters

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 Dicipingaitis, 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, Mustafaah 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, Sylwia 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 Barbetta (Ferrara (FE), Italy), Anna Del Colle, Marco Caminati, Rachele Vaia, Gianenrico Senna, Donato Lacedonia, Umberto Zuccon, Rossana Roncati

A novel questionnaire describing sensations and triggers associated with refractory and unexplained chronic cough
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Chelsea Sawyer, Shannon Galgani, Jenny King, Holt Kimberley, Rachel Dockry, Joanne Mitchell, Jacky Smith, Paul Marsden, Janelle Yorke

Patient global impression of severity in chronic cough: repeatability and responsiveness
Katie Rhatigan (Denmark Hill, United Kingdom), Barnaby Hirons, Harini Kesavan, Miten Sudra, Candice Ebelthite, 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, Maria Luisa Nieto, Juan Luis Rodriguez-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, Nazmun Sohel, Om Kurmi, Kieran Killian, Paul O’Byrne, Parminder Raina

Chronic cough in sarcoidosis
Barnaby Hiron (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Richard Turner, Caroline Jolley, Katherine Myall, Surinder S Birring, Pete S P Cho

Stress urinary incontinence in women with chronic cough: impact on cough-related quality of life
Luis Puente Maestu (Madrid, Spain), Santiago Quirce, Ignacio Davila, Ebymar Arismendi, Eva Martinez-Moragón, Javier Sola-Martinez, 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
Chaoqun (Cherry) Xu (Toronto, Canada), Mustafaa Wahab, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminsky, Jennifer Wattie, 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 Zucon, Alessio De Massimi, Vittorio Giacomarra, Maria Elisabetta Conte, Alberto Fantini, Marco Contoli, Alberto Papi, Antonella Serafini, Gelindo Cappellato, Marco Caminati, Gianenrico Senna, Rachele Vaia, Francesca Saverio Serino, Rossana Roncato

Work productivity and activity impairment among chronic cough patients after a guideline-based treatment in the McMaster Cough Clinic
Chaoqun (Cherry) Xu (Toronto, Canada), Mustafaa Wahab, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminsky, Jennifer Wattie, 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 Schöön

PS-18 in poster area

Session 16:00 - 17:30
Poster session: Physiology in pulmonary hypertension

Disease(s): Pulmonary Vascular diseases

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

Chairs: Anton Vonk Noordegraaf (Amsterdam, Netherlands), Stéphanie Saxter (Zürich, Switzerland)

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 Barbera, Isabel Blanco

A qualitative exploration of pulmonary hypertension patients’ views and experience with a remotely delivered home-based exercise program
Ciara McCormack (Navan, Ireland), Brona Kehoe, Niall Moyna, Sarah Cullivan, Brian McCullagh, Sean Gaine, Sarah Hardcastle
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 Vanagna, Priscila Sperandio, Eloara Ferreira, Jaquelina Ota-Araakiki, 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 Komarzynska, 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, Monica 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 Luppini, Giuseppe Piaciocco

Correlation between lung vessel morphology and prognostic markers in pre-capillary pulmonary hypertension
Michael Pienn (Graz, Austria), Roman J. Gerz, 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 (Saint mande, 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, Stefano Centanni, Luke Howard, Francesco Lo Giudice

Relationship between right ventricular longitudinal strain using cardiac magnetic resonance and haemodynamics 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 – 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

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 Buendia Roldán, Tatiana Sofia Rodriguez Reyna, Consuelo Orihuela 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 Müller (Zürich, Switzerland), Simon R. Schneider, Meret Bauer, Laura Mayer, Lea Lüönd, Tanja Ulrich, Michael Furian, Aglaia Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich

Pulmonary arterial wedge pressure increase during exercise in patients with pulmonary vascular disease
Julian Müller (Zürich, Switzerland), Laura Mayer, Simon R. Schneide, Anna Titz, Esther I. Schwarz, Stephanie Saxer, Michael Furian, Ekkehard Grünig, Silvia Ulrich, Mona Lichtblau
Clinical use of telomere length in idiopathic pulmonary fibrosis
Antoine Froidure (Bruxelles, Belgium), Trejsi Muça, Marie-Astrid Van Dievoet, Anabelle Decottignies

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

Familial interstitial pneumonia: survival is independent of interstitial lung disease aetiology
Deborah Dos Reis Estrella (Belo Horizonte (MG), Brazil), Eliane Viana Mancuzo, Ricardo De Amorim Corrêa, Regina Célia Carlos Tibana, Maria Raquel Soares, Carlos Alberto De Castro Pereira

Barriers and facilitators when talking about personal values, wishes and needs nearing the end-of-life. A qualitative exploration of a patient and partner perspective

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

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

Short-term evolution of nutritional status in patients with idiopathic pulmonary fibrosis
Giovanni Franco (Monza, Italy), Paola Faviero, Alessia Fumagalli, Sara Conti, Fabiana Madotto, Francesco Bini, Sergio Harari, Michele Mondoni, Tiberio Oggioni, Emanuela Barisone, Paolo Ceruti, Maria Chiara Papetti, Bruno Dino Bodini, Antonella Caminati, Angela Valentino, Stefano Centanni, Paola Lanzi, Matteo Della Zoppa, Silvia Crotti, Marco Grosso, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Nicoli, Giulia Suigo, Sara Busnelli, Giuseppe Paciocco, Sara Lettieri, Lorenzo Giovanni Mantovani, Giancarlo Cesana, Alberto Pesci, Fabrizio Luppi

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

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

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-Pei Ho, Peter Saunders, Rachel K. Hoyles

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 Bareil, Tamar Shalmon, Sarah Borsekofsky, Tzilil Hershko, 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 Charier, Valentin Patarin, Claire Defrance, Renan Liberge, Olivier Morla, Arnaud Cavailles, 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.
Helen Morris (Manchester (Greater Manchester), United Kingdom), Katie Zakis, 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
Marium 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, María Noboa Sevilla, María Benegas Urteaga, Alejandro Frino García, Juanissi Turaren Gonzalez, Nancy Perez Rodas, Fernanda Hernandez Gonzalez, Marcelo Sanchez Gonzalez

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
SEE PAGE 1

17:30-19:00
INDUSTRY EVENING SYMPOSIUM
SEE PAGE 1
Amber 3+4 Session 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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<td>08:00</td>
<td>Introduction</td>
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<td>08:00</td>
<td>Performing spirometry</td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
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<td>08:00</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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<td>08:00</td>
<td>Measurement of airway resistance and resistance-volume loops using whole-body pethysmography</td>
<td>Mart N. van der Plas (Monster, Netherlands)</td>
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<td>08:00</td>
<td>Reporting and interpretation of case studies</td>
<td>Maximillian Thomas (, United Kingdom)</td>
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Amber 1+2 Session 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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<td>Introduction</td>
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<td>08:00</td>
<td>Relationship between oxygen uptake and work rate</td>
<td>Paolo Palange (Rome, Italy)</td>
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<td>08:00</td>
<td>Anaerobic/lactate threshold</td>
<td>William Stringer (Long Beach, United States)</td>
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<td>08:00</td>
<td>Ventilatory efficiency</td>
<td>J. Alberto Neder (Kingston (ON), Canada)</td>
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<td>08:00</td>
<td>Breathing pattern and dynamic hyperinflation</td>
<td>Michele Schaeffer (Leuven, Belgium)</td>
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08:00-08:45

INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

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

Poster session: Translating lung cancer: mechanisms, mutations, and prediction
**Disease(s):** Airway diseases, Interstitial lung diseases, Thoracic oncology

**Method(s):** Cell and molecular biology, Surgery, Epidemiology, Pulmonary function testing, General respiratory patient care, Endoscopy and interventional pulmonology, Public health

**Chairs:** Andriani Charpidou (Athens, Greece), Daniela Xhemalaj (Tirana, Albania)

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**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 Longarón, Joaquin Gea, Ignacio Sánchez-Guerr, 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

**Late Breaking Abstract - Higher radiation dose in chemoradiotherapy followed by immunotherapy with durvalumab in patients with stage III non-small cell lung cancer does not increase risk for pneumonitis.**
Felix Schragel (Wien, Austria), Melanie Matousek, Christoph Resl, Peter Errhalt, Klaus Hackner

**Understanding BRAF mutation in non-small cell lung cancer patients**
Giulia Squarzoni (Italy), Mariaenrica Tine, Davide Ortolan, Federica Pezzuto, Fiorella Calabrese

**Changes of lung microbiota composition in patients with non-small cell lung cancer**
Vytautus Ankudavicius (Kaunas, Lithuania), Darja Nikiitina, Rokas Lukosevicius, Jurgita Skieceviciene, Juozas Kupcinskas, Skaidrius Miliauskas, Marius Zemaitis

**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

**Evaluation of PD-1 T lymphocytes in bronchoalveolar lavage in lung cancer compared to benign lung diseases**
Barbara Hammer (Borstel, Germany), Christina Bal, Maximilian Gysan, Sonja Zehetmayer, Silvana Geleff, Andreas Zech, Markus Kramer, Seda Ayazseven, Marco Idzko, Mir Alireza Hoda, Daniela Gompelmann

**Spread through air spaces prognostic value in adenocarcinoma**
Mara Daniela Silva Sousa (Vizeyla, Portugal), Mariana Gonzalez Ribeiro, Catarina Sousa, Helder Novais-Bastos, David Araujo, Gabriela Fernandes, Adriana Magalhaes, Andree Carvalho, Susana Guimarães, Conceicao Souto Moura, Venceslau Hespanhol, Claudia Freitas

**COMPARATIVE ANALYSIS ACCORDING TO ALPHA-1 ANTITRYSIN 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 Duran, 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 Larrouette, 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, Wei Li, Junhao Mu, Min Ao, Longke Ran

PS-12 in poster area

Session 08:00 - 09:30
Poster session: Evaluation of lung function techniques and sleep studies in paediatrics.

Disease(s): Sleep and breathing disorders  Airway diseases
Method(s): General respiratory patient care  Physiology  Pulmonary function testing  Respiratory intensive care  Epidemiology  Imaging

Chairs: Nicole Beydon (Paris, France), Chair to be confirmed

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 Installe, Anse Van Osteyen, Kris Ies, Nathalie Jouret, Kim Van Hoorebeek, Stijn Verhulst

A comparison of machine generated AHI to ODI measured by pulse oximetry in paediatric patients on CPAP
Natalie Blyth (Nottingham, United Kingdom), Joe Madge, Prakash Patel, Tahera Doctor, Molla 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

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

Comparison of Demographic, Respiratory, and Polysomnography-Capnography Results of Patients with Duchenne Muscular Dystrophy
Mine Kalyoncu (Istanbul, Turkey), Yasemin Gokdemir, Cansu Yilmaz Yeşit, Mürüvvet Yanaz, Aynur Gulieva, Merve Selçuk, Şeyda Karabulut, Neval Metin Çakar, Pınar Ergenekon, Ela Erdem Eralp, Gülten Öztürk, Olcay Üner, Dilşad Türkdoğan, Fazilet Karakoç, Bulent Karadağ

Transition from tracheostomy to Non-Invasive Ventilation in children with Congenital Central Hypoventilation Syndrome
Jenny Taylor (London, United Kingdom), Alice Crawshaw, Garry Rendle, Vasileios Patelsis, Martin Samuels, Elaine Chan

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

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

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 Roca

Applicability of the Global Lung Function Initiative (GLI)-2012 equations to Hong Kong Chinese children
Ching Ching Kate Chan (Hong Kong, Hong Kong), Huichen Zhu, Chun T Au, Hoi M Yuen, Hui Y Chin, Michelle Yu, Magnum Yu, Albert M Li

Impact of new Guidelines on the Quality of Spirometry in Paediatrics
Carolina Arez Constant (Lisboa, Portugal), Ana M Silva, Ângela Drago, Andreia Desçalo, Ângela Martins, Teresa Bandeira

Criteria For Bronchodilator Responsiveness Testing In Children. The Most Adequate Is…
Carolina Arez Constant (Lisboa, Portugal), Andreia Desçalo, Ângela Drago, Ângela Martins, Ana M Silva, Teresa Bandeira
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

Automated quality control for spirometry as a tool for faster and more objective results
Xenia Bovermann (Bern, Switzerland), Léa Ho Dac, Marion Curdy, Nadine Meuwly, Carmen Streibel, Bettina Frauchiger, Philipp Latzin

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 Obst, Philipp Latzin, Kathrin Ramsey, Sophie Yammine

Leg muscle function and exercise capacity in adolescents living with obesity
Larry C. Lands (Montréal (QC), Canada), Juliano Colapelle, Julie St-Pierre, Julius Erdstein

A comparison of CPET protocol selection methods in a Leicestershire paediatric cohort
Natalie Blyth (Nottingham, United Kingdom), Joe Madge, Prakash Patel, Molla Imaduddin Ahmed

Late Breaking Abstract - New aerosol based method detects enlarged distal airspaces in adolescents that were born preterm
Jakob Löndahl (Lund, Sweden), Hugo Öhrneman, Frida Lindström, Cecilia Hagman, Madeleine Petersson Sjögren, Jenny Rissler, Per Wollmer, Ellen Tufvesson

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-19 in poster area
Poster session: Pulmonary embolism: acute and long-term management (2)

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

An Australian study on factors impacting the length of stay for acute pulmonary embolism
Xinxin Hu (Sydney, Australia), Ming-Yan Teo, Mohan Nagarajah

INPATIENT EXPERIENCE AVOIDANCE, PHYSICAL ACTIVITY, AND PERCEIVED DISABILITY AFTER A PULMONARY THROMBOEMBOLISM
Alejandro Heredia Ciuró (Granada, Spain), Ana Belén Gámiz Molina, Julia Raya-Benitez, Miguel Hernández Serrano, Carmen Lidia Félix Seguro, Javier Martín Núñez, Marie Carmen Valenza

HANDGRIP STRENGTH AS PREDICTOR OF SYMPTOM SEVERITY AND HOSPITAL LENGTH OF STAY AFTER A PULMONARY THROMBOEMBOLISM
Alejandro Heredia Ciuró (Granada, Spain), Julia Raya-Benitez, Ana Belén Gámiz-Molina, Miguel Hernández-Serrano, Carmen Lidia Félix-Segura, Maria Granados-Santiago, Marie Carmen Valenza

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

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, Zhenguo Zhai

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
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, Maria Rosario Ruiz Serrano De La Espada, Cándido Fernández García, Teresa Elías Hernández, Luis Jara Palomares, Virginia Almada Pacheco, Patricia Guerrero Zamora, Julia Oto Martínez, Pilar Medina Badenes, Pilar Cezudo Ramos, Verónica Sánchez López

Cardiopulmonary exercise test to identify pulmonary arterial hypertension in patients with symptoms after acute pulmonary thromboembolism
Jose Belda Ramirez (Valencia, Spain), Maria Luisa Nieto Cabrera, Paula Pla Rodriguez

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 Poulhazan, Emmanuelle Le Moigne, Karine Lacut, Christophe Leroyer, Isabelle Mahé, Emmanuel Nowak

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

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-Taegtmeyer, Philipp Schuetz, Joerg Daniel Leuppi

Particularities of Pulmonary embolism in young adults
Manel khedhri (beja, Tunisia), Haifà Zaibi, Khouloud Chaabi, Emna Ben Jemia, Ella Nemsii, Jihen Ben Amar, Hichem Aouina

Jason Weatherald (Edmonton, Canada), Grace Y. Lam, Michael K. Stickland, Chuan Wen, Ron W. Damant, Maevé P. Smith, Lesley Jj. Soril, Zuying Zhang, Adam G. DSouza, Elissa Rennert-May, Jenine Leal

Covid-19 infection and chronic thromboembolic pulmonary disease: screening role of transthoracic echocardiography 2 years after hospitalization for interstitial pneumonia
Giuseppe Paciocco (Monza (MI), Italy), Marta Tundo, Andrea Lombi, Chiara Milano, Martina Messa, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Giulia Pittalis, Fabrizio Luppi, Paola Faverio

Cardiopulmonary complications after pulmonary thrombosis (PT) in COVID-19.
Joaquin Maria Martinez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suarez 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 Bellerostes Vizoso, Paula Argente Del Castillo Rodriguez, Daniel Morell Garcia, Luisa Martin Pena, Juan A Palmer Sancho, Jaume Sauleda, Ernest Sala

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 Milian, Nuria Toledo, Amanda Iglesias, Joaquin Maria Martinez, Luminida Preda, Luisa Ramon, Danieal Morell, Josep Miquel Bauça, Belen Nuñez, Jaume Sauleda, Ernest Sala-Llinás, Alberto Alonso

Is acute pulmonary embolism a predictor of Post COVID-19 syndrome ?
Mariem Friha (Ariana, Tunisia), Hajer Racil, Mariem Chabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch

Diagnostic Performance of Clinical Probability Scores for Pulmonary Embolism in COVID
Haifa Zaibi (Tunis, Tunisia), Khouloud Chaabi, Hend Ouertani, Safia Othmani, Emma Ben Jemia, Jihen Ben Amar, Hana Hedhli, 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 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**

**Chairs:** Camille Rolland-Debord (clermont-ferrand, France)

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**Tobacco-associated lung microangiopathy in symptomatic smokers without chronic obstructive pulmonary disease: A randomized, double-blinded and controlled clinical trial with Sildenafil.**
Paulo Müller (Campo Grande (MS), Brazil), Tiago Augusto, Gisele Barbosa, Ricardo Gass, Danilo Berton, Leandro Goelzer

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**THE IMBALANCE BETWEEN SUBPOPULATIONS OF REGULATORY T (TREG) CELLS AT DIFFERENT STAGES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)**
Fernanda Degobbi Tenorio Quirino dos Santos Lopes (São Paulo (SP), Brazil), Luan Henrique Vasconcelos Alves, Juliana Tiyaki Ito A, Luana Mendonça De Oliveira, Ioland Lopes Calvo Tibério, Rafael Stelmach, Maria Notomi Sato

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**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 Kheirreddine Bourahil, Naouel Chibout, Helmi Bensaad

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**Amount of physical activity and pulmonary rehabilitation in patients with COPD**
Yu Liu (shanghai, China), Kai Zhang, Huaqi Guo, Cuixia Zheng

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**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, Hoon Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andy Swift, Dave Capener, Jody Bray, Jimmy Ball, Olly Rodgers, Denny Jakymelen, Ian Smith, Bilal Tahir, Madhweshra Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latvia Hardaker, Titti Flim-Wikander, Rod Hughes, Jim Wild

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**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

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**Postural balance assessment in fallers individuals with COPD before and after physical effort**
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaela Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho

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**Mortality in COPD Patients – Long-term Follow-up and Outcomes**
Roman Kalinov (Plovdiv, Bulgaria), Blagoi Marinov, Georgi Belev, Spas Kitov, Vladimir Hodzhev, Stefan Kostianev

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**Association of testosterone with lung function in patients with chronic obstructive lung disease**
Abir Hedhli Ep Cherni (tunis, Tunisia), Nourelahoua Khézami, Azza Slim, Haïtaje Sonia, Khadija Echi, Sana Cheikhrouhou, Yasmine Ouahchi, Sonia Toujami, Mariem Mijd, Besma Dhaïri

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**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

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**The impact of overweight on the quality of life of patients with COPD GOLD III**
Aslı Görek Dilektaşlı (Bursa, Turkey), Busra Yigitliler, Nilüfer Ozturk, Funda Coskun, Esra Uzaslan, Mehmet Karadag

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**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 Paita (Barga, 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

Epithelial to mesenchymal transition (EMT) changes in patients with non-small cell lung cancer (NSCLC)
Wenyiing Lu (Newnham, Australia), Collin Chia, Josie Larby, Greg Haug, Ashutos Hardikar, Gurpreet Kaur Singhera, Tillie L. Hackett, Iain Robertson, Mathew Suji Eapen, Sukhinder Singh Sahol

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

Comparison of extracellular vesicle-associated tissue factor between acute exacerbators and stable patients with chronic obstructive pulmonary disease
Miriam De Francesco (Pisa, Italy), Roberta Gaeta, Camilla Morani, Mariapia Niceforo, Marta Daniele, Erica Bazzan, Mariella De Santis, Marianna Minniti, Alessandro Congedo, Ilaria Berardi, Alberto Papi, Alessandro Celi, Tommaso Neri, Dario Neri

Usefulness of RE-LYMP and AS-LYMP parameter in diagnosis of COVID-19 and sarcoidosis patients.
Elżbieta Rutkowska (Warsaw, Poland), Agata Raniszewska, Iwona Kwiecień, Karina Jahnez- Różyk, Piotr Rzepecki, Andrzej Chciałowski

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 L Crichton, Holly R Keir, Merete Long, Morven Shuttleworth, Erin Cant, Miguel Barbosa, Anthony De Soyya, Katerina Dimakou, Michal Shteinburg, Arietta Spino, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhar, Charles Haworth, 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

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 Olejniczka, 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 Bellfield, 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 Bhattachari, Jade Jaffar, Glen Westall, Gurpreet Kaur Singhera, Tillie L. Hackett, Mathew Suji Eapen, Sukhwinder Singh Sohal

Biomarkers of autoimmune processes in COPD.
Gulchekhra 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 programed 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

Immunohistochemical analysis in biopsies from patients with COPD.
Marcos Páramo Pérez (Ciudad de México, Mexico), Robinson Robles Hernández

Piezo expression and function in airway smooth muscle in chronic obstructive pulmonary disease.
Nataliya Migulina (Groningen, Netherlands), Theo Borghuis, Ben Roos, Wim Timens, Christina Pabelick, Corry-Anke Brandsma, Janette Burgess, Y.S. Prakash

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. Hohlfeld, 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

PS-11 in poster area Session 08:00 - 09:30
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 Trincanti, Andrea Francavilla, Franca Rusconi

PEDiATiC 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. Brändsen, Simone Hashimoto, Niels Rutjes, Kornel Golbski, Frederique Vermeulen, Suzanne Terheggen-Lagro, Bart Van Ewijk, Anke-Hilse Maitland-Van Der Zee, Susanne Vijnverber
Association between airway dimension, the clinical severity of bronchiolitis and the development of pre-school wheezing
Greta Di Mattia (Roma (RM), Italy), Laura Petrarca, Enrica Mancino, Luigi Matera, Maria Giulia Conti, Silvia Blobise, Antonella Frassanito, Domenico Paolo La Regina, Elo 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 Luccero (CABA, Argentina), Gabriela Peláez, Verónica Aguerrero, 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 Losifidis (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
Sirma Mileva (Sofia, Bulgaria), Gergana Petrova, Pulina Kostova, Snejina Mihaïlova, 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. Fiocechi, Kevin R. Murphy, Eckard Hamelmann, Kristie Ross, Atul Gupta, Changming Xia, Rebecce Gall, Olivier Ledanoids, 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 Ledanoids, 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
Mohamed aymen Jebali (tunis, Tunisia), Sabrine Louhaichi, Synda Derouiche, Siwar Rejeb, Farah Garci, Houneida Ben Zekri, Jamel Ammar, Besma Hamdi, Agnes Hamzaoui

Comparing functional surrogacy in the upper and lower airway epithelium
Thomas Losifidis (Perth (WA), Australia), Ingrid Laing, Alphans 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 Goldberg, Romi Bari, Itay Hazan, Amir Horev, Inbal Golan Tripto

Blood hyper eosinophilia in childhood asthma: impact on disease severity
Siwar Rejeb (tunis, Tunisia), Hamdi Besma, Jebali Aymen, Derouiche Syna, Garci Farah, Ammar Jamel, Louhaichi Sabrine, Aignés Hamzaoui

Adherence to inhaled steroids in children on asthma biologics; prescription uptake for inhaled steroids in children treated with asthma biologic therapy.
Susan Frost (Birmingham (West Midlands), United Kingdom), Laura Morris, Leanne Illife, Isobel Brookes, Benjamin Davies, Priti Kenia, Satish Rao, Prasad Nagakumar

Predicting aerosol deposition in children with severe asthma and small airways disease
Hettie M. Janssens (Rotterdam, Netherlands), Wytse van den Bosch, E.J. Ruijgrok, H.A.W.M. Tiddens

Portable oscillometry in preschool children attending the Emergency Department with wheezing
Senali Y Seneviratne (Leicester, United Kingdom), Saxôn Law-Gleen, Damian Roland, Erol Gaillard

Impedance and spirometry measurements compared in paediatric outpatients with recurrent respiratory symptoms
Maria Cristina Mazzuca (roma, Italy), Giorgia Raponi, Sara Mascambroni, Carla Trovato, Melania Evangelisti, Maria Alejandra Valderrama, Pasquale Parisi, Mario Barreto
Dupilumab reduces systemic corticosteroid exposure in children with uncontrolled moderate-to-severe asthma regardless of prior exacerbations
Eckard Hamelmann (Bielefeld, Germany), Antoine Deschildre, Francine M. Ducharme, Lawrence D. Sher, Ines De Mir, Changming Xia, Rebecca Gall, Olivier Ledanois, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz

PS-20 in poster area

Session 08:00 - 09:30

Poster session: Deep learning, new technologies and biomarkers in imaging

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

Method(s) : Imaging  Pulmonary function testing  Epidemiology

Chairs : Chair to be confirmed

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 Scherm (Hannover, Germany), Cornelia Schaefer-Prokop, Anton Schreuder, Jonathan Ehlig, 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
Tjeerd van der Veer (Amsterdam, Netherlands), Anastasia Kimberley Ay-Lan Kwee, Leticia Gallardo Estrella, Elroyz R. Andrinopoulou, Jean Paul Charbonnier, Stephen M. Humphries, Pim A. De Jong, David A. Lynch, Harm A. W. M. Tiddens, Esther Pompe

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, Seichiro Sakao, Koichiro Tatsumi, Takuji Suzuki

The comparison of quantitative CT features of COPD and pre-COPD: results from a real-life study
Selin Ercan (Izmir, Turkey), Aylin Ozgen Alpaydin, Ali Canturk, Emre Ruhat Avci, Salih Selin Ozuygur Ermis, Gozde Tokatli, Gökçen Ömeroglu Simsek, Pinar Balci, Naciye Sinem Gezer

Multisite implementation of 129Xe-MRI assessment of COPD disease progression: XeCITE early results
Laura C. Bell (South San Francisco, United States), Alexandre Fernandez Coimbra, Yixuan Zou, Colin Dimond, Jaime Mata, John Muglar, Yun Michael Shim, David Mummy, Bastiaan Driehuys, Yuh-Chin Huang, Peter Niedbalski, Mario Castro, Yonni Friedlander, Norm Konyer, Sarah Svensingsen, Parameswaran Nair, Terence Ho, Andrew Hahn, Sean Fain, Eric A. Hoffman, Guilhem J. Collier, Jim M. Wild, Robert Thommen, Talissa Altes, Paula Belloni

CT-quantified pulmonary artery volume associates independently with higher mortality in smokers with and without COPD
Tjeerd van der Veer (Amsterdam, Netherlands), Anastasia Kimberley Ay-Lan Kwee, Leticia Gallardo Estrella, Elroyz R. Andrinopoulou, Jean Paul Charbonnier, Stephen M. Humphries, Pim A. De Jong, David A. Lynch, Harm A. W. M. Tiddens, Esther Pompe

Quantitative computed tomography assessment of pulmonary structure in cannabis smokers
sukhraj virdee (georgetown, Canada), James Hogg, Jean Boudreau, Wan Tan, Miranda Kirby

Can tracheobronchial tree and luminal descriptors be used as objective imaging biomarkers in COPD?
Rodrigo Nava (Cambridge, United Kingdom), François-Xavier Blé, Cosma Mirella Spalluto, Karl Staples, Tom Wilkinson, Kristoffer Ostridge

Computational fluid dynamics analysis of computed tomography images in asthma
So Ri Kim (Jeonju, Republic of Korea), Nguyen Quoc Hung, Kum Ju Chae, Gong Yong Jin, Sanghun Choi

Machine learning applied to chest x-rays to support the diagnosis of pulmonary tuberculosis
Marcelo Fouad Rabahi (Goiânia (GO), Brazil), Poliana Parreira, Afonso Fonseca, Fabrizio Soares, Marcus Barreto Conte
Effect of benralizumab on small airway dysfunction using functional respiratory imaging in patients with severe eosinophilic asthma
Lennart Conemans (Maastricht, Netherlands), Mieke Crutsen, Wendel Dierckx, Sami Simons, Martijn Spruit, Bita Hajian

Imaging of human airways by endoscope-compatible dynamic microscopic optical coherence tomography
Cornelia Holzhausen (Lübeck, Germany), Hinnerk Schulz-Hildebrandt, Martin Ahrens, Klaus Rabe, Heike Biller, Mustafa Abdø, David Ellebrecht, Sönke Von Weihe, Christoph Fraune, Stefan Steurer, Gereon Hüttermann, Peter König

Use of dynamic chest radiographic measurements to estimate total lung capacity in patients with respiratory disease
Fred Fyles (Liverpool, United Kingdom), Ryan Robinson, Thomas Fitzmaurice, Rachel Burton, Amy Nuttall, Ram Bedi, Hassan Burhan

Differentiating diffuse cystic lung disease and emphysema cases from normal using Artificial Intelligence
Katie Noonan (Wicklow, Ireland), Ronan Hearne, Brian Gaffney, Brian Sheehy, Brian Mcveigh, Yasuhiro Sekimoto, Ali Ataya, Nishant Gupta, Francis Mccormack, Raphaël Borie, Francesco Bonella, David Murphy, Kathleen Curran, Cormac McCarty

Utilising computer vision artificial intelligence to identify defects in airway ciliary motility and mucociliary clearance
Mathieu Bottier (London, United Kingdom), Andrea Lucia Do Nascimento Pinto, Emily Howieson, Britt J Van Akker, Oliver Hamilton, Ioannis Katramados, Jane Davies, Amelia Shoemark, Claire Hogg, Thomas Burgoyne

Bioradiomic SPECT-CT quantification of active lung inflammation is influenced by heterogeneity of lung tissue
Benjamin Welham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavamwe, Francis Sundram, Tom Wilkinson

Using CT to detect large airway collapse in severe asthma: worth the extra effort?
Wei Ling Chia (London, United Kingdom), James Hull, David Watchorn

PS-18 in poster area
Session 08:00 - 09:30

Poster session: Sarcoidosis: disease mechanisms and pathogenesis

Disease(s) : Interstitial lung diseases

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

Chairs : Marcel Veltkamp (De Meern, Netherlands), Natalia V. Rivera (Stockholm, Sweden)

How informed are patients with pulmonary sarcoidosis about their disease?
Michael Kreuter (Heidelberg, Germany), Katharina Buschulte, Philipp Höger, Claudia Ganter, Marlies Wijsenbeek, Nicolas Kahn, Katharina Kriegsmann, Finn Moritz Wilkens, Bernd Stachetzk, Markus Polke, Sarah El-Hadi, Christoph Lederer, Felix Herth

T follicular helper cell subsets in sarcoidosis patients: a comparison between three anatomical compartment.
Matteo Fanetti (Siena, Italy), Miriana D'Alessandro, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Vittoria Ventura, Sara Croce, Gaia Fabbi, Giusy Montuori, Marco Spalletti, Marta Abbritti, Stefano Baglioni, Paolo Cameli, Elena Bargagli

Late Breaking Abstract - HLA-DR immunopeptidomics on cells from bronchoalveolar lavage
Benedikt Zöhrer (Stockholm, Sweden), Ákos Végvári, Johan Brunegard, Åsa M. Wheelock

T helper and T cytotoxic cells subsets in peripheral, alveolar and lymph nodes of sarcoidosis patients
Maddalena Messina (Siena, Italy), Miriana D'Alessandro, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Magda Viani, Marco Guerrieri, Lucia Cassai, Elena Pordon, Sara Croce, Marta Abbritti, Stefano Baglioni, Paolo Cameli, Elena Bargagli

CD4+ T cells from EBUS/TBNA samples express different immunomodulatory molecules in patients with sarcoidosis.
Agata Raniszewska (Warszawa, Poland), Elżbieta Rutkowska, Iwona Kwiecień, Piotr Miklusz, Karina Jahnz-Różyk, Piotr Rzepecki

RESPISAM: Type 1 inflammation biomarkers from bronchial mucosal lining fluid in parenchymal versus nodal sarcoidosis.
Osman Hatem (London, United Kingdom), Hannah Jarvis, Ryan Thwaites, Kavina Manalan, Tanushree Tunstall, Joan Nanan, Mica Tolosa-Wright, Ishita Marwah, Ak Reuschl, Trevor Hansel, Ajit Lalvani, Onn Min Kon

Alveolar nitric oxide concentration as a potential biomarker of fibrosis in pulmonary sarcoidosis: a pilot study
Stefano Levra (Moncalieri, Italy), Fabiana Giannoccaro, Maria Chernovsky, Francesca Bertolini, Vitina Carriero, Elisa Arrigo, Flavio Crosa, Paolo Carlo Ghio, Giuseppe Guida, Fabio Luigi Massimo Ricciardolo
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 Mezzalama, Baglioni Stefano, Marta Abbritti, Elena Bargagli, Miriana D'Alessandro

Retrospective analysis of BeLPT over 20 years
Louis Armand Jouanjan (Freiburg, Germany), Charlott Terschluse, Gernot Zissel, Caroline Quartucci, Joachim Müller-Quernheim, Daiana Stolz, Björn Christian Frye

Defining serum TNF-α concentration related endotype of sarcoidosis- A Polish real-life retrospective observational study
Anna Goljan Geremek (Warszawa, Poland), Piotr Radzinski, Elżbieta Puscsinska, Urszula Demkow

Change in bone mineral density in Danish patients with sarcoidosis
Janne Møller (Skanderborg, Denmark), Lars Rejnmark, Elisabeth Bendstrup

Evaluation of Xpert MTB/RIF Ultra in differentiating tuberculosis from sarcoidosis in patients with mediastinal lymphadenopathy
Sahajal Dhoooria (Chandigarh, India), Kusum Sharma, Inderpal Singh Sehgal, Ritesh Agarwal, Ashutosh Nath Aggarwal

Is the internet a sufficient source of information on Sarcoidosis?
Michael Kreuter (Heidelberg, Germany), Katharina Buschulte, Philipp Höger, Claudia Ganter, Marlies Wijsbeek, Nicolas Kahn, Katharina Kriegsmann, Fink Moritz Wilkens, Felix Herth

An analysis of seasonality of sarcoidosis in Turkey
Emre Yanardag (Istanbul, Turkey), Muammer Bilir, Cuneyt Tetikku, Halil Yanardag

PD-1/TIGIT axis: a novel therapeutic target?
Sara Gangi (siena, Italy), Simona Luzzi, Laura Bergantini, Paolo Cameli, Elena Bargagli, Miriana D'Alessandro

Transcriptional and functional characterization of TCR Vα2.3+Vβ22+ CD4+ T cells that accumulate in the lungs of sarcoidosis patients with Löfgren’s syndrome
Avinash Padhi (Stockholm, Sweden), Jeanette Grundström-Heinö, Michael Falta, Andrew Fontenot, Atif Shaikh, Susanna Kullberg, Johan Grunewald, Anna Smed-Sörensen

Late Breaking Abstract - Transcriptomic profiling identifies pro-fibrotic macrophages under ferroptotic stress in silicosis
Christian Aloe (Bundoora, Australia), Nicole Soo Leng Goh, Jonathan Mcqualter, Reshma Pujari, Rhoda Cameron, Julie Teague, Paris Papagianis, Simon Hall Apte, Brendan O’Sullivan, Ross Vlahos, Christine Faye Mcdonald, Ryan Francis Hoy, Daniel Charles Chambers, Tracy Li-Tsein Leong, Steven Bozinovski

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

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-9 in poster area
Session 08:00 - 09:30
Poster session: Monitoring in chronic airway disease (2)

Disease(s) : Airway diseases
Method(s) : Physiology Pulmonary function testing General respiratory patient care Public health Epidemiology
Chairs : Marieann Högman (Uppsala, Sweden)

Title: Prevalence and predictors of suboptimal PIFR in patients with COPD
Ashwini Chawhan (Mumbai, India), 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 Meerbeek, 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 Agnello, Lauren Mccaffrey, Sebastien Chastin, Ragnberth Helleday, Karin Wedell
Katiuska Herminia Liendo Martinez (Madrid, Spain), Stephany Ivonne Briones Alvarado, Crsithian Alonso Correa Gutierrez, Zichen Ji, Luis Puente Maestu, Javier De Miguel-Diez

Cluster analysis applied to 142 Algerian patients with COPD
Karim KHENNOUF (ALGIERS, Algeria), Abdelkarim Saadi, Souad Souilah, Yacine Benbetka, Samya Taright

Clinical significance of symptoms in smokers with preserved pulmonary function: a cross-sectional study
Allaybergyen Myeryemkhaan (Ulanbaatar, Mongolia), Byambатseren Boldbaatar, Otgonjargal Gurragcha, Amartuvshin Ganbold, Ichinnorov Dashtseren

Analysis of the relation between tidal and forced spirometric curves
Rob Hagemeijer (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 b2-agonist using electronic methods: a narrative systematic review
Mohammed Almutairi (Birmingham, United Kingdom), John Marriott, Adel Mansur

Guideline-modified asthma control test (GmAICT): improving monitoring of disease control
Enrico Schiavi (roma, Italy), Maria Parmigiani, Francesca Cefaloni, Cristina Boccasebella, Luca Richeldi, Matteo Bonini

Changes in obstruction classification using different interpretation strategies
Martijn Cuijpers (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 Schiffer (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.
Mária Rodil Riera (Langreo, Spain), Ramón Fernández Álvarez, Marta Ísca Urrutia, María José Vázquez López, Gemma Rubinos Cuadrado, Isabel Martín González-Posada, Ángela Lanza Martinez, Laura Martínez Vega, Eduardo Sánchez Vázquez, Juan Francisco Nieves Salceda, Laura Abad Chamorro, Patricia Alvarez Alvarez, Marta María García 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, András 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 Domínguez Gómez, Roberto Martin 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, Florgerta Sana, Ruben Infantino, Giovanni Dalena, Giovanna Elissiana Carpanagno

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 Munique Saraiva-Romanholo, Paulo A Lotufo, Isabela Bensonor, 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, Emanuel Heusser, Silvia Ulrich, Konrad E. Bloch, Michael Furian

A novel e-Health oscillometry approach: low-cost, open-source App-driven device
Ramón Farré Ventura (Barcelona, Spain), Jan-Elliot Gonzalez, Miguel-Angel Rodriguez, Eduardo Caballero, Antonio Pardo, Santiago Marco
**Poster session: Advances in the diagnosis and treatment of non-tuberculous mycobacterial lung disease**

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

**Chairs:** Jakko van Ingen (Nijmegen, Netherlands), Dirk Wagner (Freiburg, Germany)

**Non tuberculosis mycobacterial pulmonary disease: a single center experience analysis**
Nicola Baio (Pavia, Italy), Simone Montini, Francesco Rocco Bertuccio, Lucrezia Pisanu, Valentina Ferroni, Vittorio Chino, Vincenzo Sanci, Paolo Cosseta Reposi, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico

**Incremental hospitalization burden of nontuberculous mycobacterial lung disease in patients with asthma in Japan**
Ping Wang (Bridgewater, United States), Kozo Morimoto, Naoki Hasegawa, 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 Nachrlich, 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 non-tuberculous mycobacteria**
Andrea Exposito Marrero (San Cristobal A La Laguna, Spain), Jesus Rodriguez Gonzalez, Carmen Palacios Clar, Nuria Castejon Pina, Adrian Baeva Ruiz, Jose Luis Trujillo Castilla

**Understanding patients at risk of NTM-PD using a modified Delphi process**
Michael Loebinger (London, United Kingdom), Stefano Alberti, Charles S Haworth, Mateja Jancovic Makek, Christophe Lange, Natalie Lorent, Eva Polverino, Apostolos Papavasieiou, Gernot Rohde, Nicolas Veziris, Dirk Wagner, Jakko Van Ingen

**Disseminated mycobacterial infection in patients on ruxolitinib for myleodysplastic disorders**
sophie roberts (London, United Kingdom), Philip Gothard, Hanif Esmail, Michael Brown, Johnathan Lambert, Holly Theaker, Ana Garcia-Mingo, Stephen Morris-Jones, Moerica Belton, Lusha Kellgren, Santino Capocci

**NTM pulmonary disease in a referral center: treatment adherence and outcomes in a retrospective cohort.**
Julie De Man (Romershoven, Belgium), Nele Adriaenssens, Pascal Van Bleyenbergh, Michiel Happaerts, Emmanuel Andre, Natalie Lorent

**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 Gramena, Fabio Salui, 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 Papanathanassiou, Charalampos Moschos, Christos Kampolis, Apostolos Papavasieiou

**Clinical characteristics of non-tuberculous mycobacterial pulmonary disease patients according to respiratory microorganisms**
BEMSUS SHIN (Wonju, Republic of Korea), Seong Mi Moon

**Physical activity and possible sarcopenia in patients with nontuberculous mycobacterial pulmonary disease**
Young Ae Kang (Seoul, Korea, Republic of Korea), Eun Ki Chung, Youngmok Park, Dong-Hyuk Park, Justin Y. Jeon

**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 Weggaerde, Peter Bomans, Maja Kiselinova, Benedicte De Muynck, Maria Gabrovskva, Eva Van Braeckel, Steven Callens, Maya Hites, Benedicte Delaere, Sophie Gohy, Pascal Van Bleyenbergh, Leen Rigouts, Julie De Man, Laurens Ceulemans, Emmanuel Andre
### Association between physical activity and cough and sputum symptoms in patients with nontuberculous mycobacteria pulmonary disease
Kazuki Ono (Tokyo, Japan), Mitsuru Tabusadani, Hideaki Senjyu, Ryo Kozu

### 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

### Late Breaking Abstract - Predictive factors of microbiological negativization from Atypical Pulmonary Mycobacteriosis in a cohort from southeastern Italy

### Poster session: Cystic fibrosis in adults: a changing scene

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

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

**Chairs:** Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)

#### 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 Cucchietto, 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
Andrea Vukić Dugac (Zagreb, Croatia), Lucija Josić, Martina Jelavić, Marko Banić, Ivan Bambir, Duška Tješić-Drinković

#### Real-Life Adverse Effects of the New Cystic Fibrosis Modulator Therapy
Amélia Simas Ribeiro (Lisboa (Lisboa), Portugal), Pilar Azevedo, Carlos Lopes

#### Structural changes in lung morphology after modulating therapy with elexacaftor/tezacaftor/ivacaftor in patients with cystic fibrosis
Valentina Fainardi (Parma (PR), Italy), Kaltra Skenderaj, Andrea Ciuni, Gianluca Milanese, Michela Deolmi, Francesco Longo, Nicola Sverzellati, Susanna Esposito, Giovanna Pisi

#### Lung volumes as possible factors explaining the heterogeneity in the response to elexacaftor/tezacaftor/ivacaftor in patients with cystic fibrosis and advanced lung disease
Chiara Premuda (Milano, Italy), Andrea Gramegna, Sofia Misuraca, Gianfranco Alicandro, Francesca Lucca, Mariangela Retucci, Francesco Amati, Sonia Volpi, Stefano Aliberti, Marco Cipolli, Francesco Blasi

#### 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 Murris-Espin, Benoit Douvry, Thomas Flament, Magali Dupuy-Grasset, Julia Ballouhey, Damien Basille, Baptiste Arnouat, André Gillibert, Hélène 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 Koutoulas, Sirmo Stiliani Kirvasili, Marija Hadji-Mitrova, Eleni Papadaki, Elisavet-Anna Chrysochoou, Elpis Hatzigiorgou

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 Boeitus Hertz, Thomas Bjarnsholt, Daniel Faurholt-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 Agaoglu (London, United Kingdom), Deborah J Morris-Rosendahl, Michael D Waller, Ellie Quinn, Winston Banya, Imogen Felton, Rachel Robinson, Eric W Alton, Jane C Davies, Nicholas J Simmonds

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 Batarilo Hadar, Ivona Markelić, Matea Škoro, Ivan Bambir, Duška Tješić-Drinković, Andrea Vukić Đugac

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.
Merlin Thomas (Doha, Qatar), Mousa Hussein, Dana Bakdach, Reem El-Ajez, Anam Elarabi, Mansoor Hameed, Aisha Aladab, Abdullah Arshad, Mona Allangawi

PS-10 in poster area
Poster session: Burden, determinants, and management of asthma

Disease(s) : Airway diseases
Method(s) : Epidemiology Cell and molecular biology Public health
Chairs : Jonathan Grigg (London, United Kingdom), Malin Axelsson (Malmö, Sweden)

Characteristics of patients with asthma in China by blood eosinophil level
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), Ark Ye, Zhihui Tang, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards

World-wide variation in the proportion of patients eligible for asthma biologics: a systematic review
Freda Yang (London, United Kingdom), Justin D Salciccioli, Marcus Mcclean, Chloe Bloom

Uncontrolled asthma associates age-dependently with biomarkers and comorbidities in adult-onset asthma
Katja Warm (Rockneby, Sweden), Linnea Hedman, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Helena Backman
Risk for asthma and allergic rhinitis depends on earliness and multiplicity of allergic sensitization, involved allergens, and allergen-specific IgE levels
Stephan Gabet (Lille, France), Fanny Rancière, Nathalie Seta, Isabelle Momas

Association between asthma and allergic diseases and school absenteeism among Indian adolescents
Smriti Debnath (Khejurbagan, India), Prasun Haldar, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

Association between allergy and asthma experience and awareness among adolescents: a structural equation modelling approach
Prasun Haldar (Kolkata, India), Smriti Debnath, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

In-hospital Mortality and Hospital outcomes Among Adults Hospitalized for Exacerbations of Asthma and COPD in Thailand (2017-2021): A population-based Stud
Narongwit Nakwan (Songkhla, Thailand), Kanittha Suansan

Causal risk factors for asthma in Mendelian randomization studies: A systematic review and meta-analysis
Heidi Mikkelsen (Køge, Denmark), Eskild M. Landt, Marianne Benn, Børge G. Nordestgaard, Morten Dahl

Hospital admissions among asthmatic children in Tizi-Ouzou city before and during the COVID-19 pandemic
Salim Sadi (Tizi-Ouzou, Algeria), Idir Ramdani, Dihia Hadi-Said, Tourfik Djerbouna, Nabilia Yata, Nadia Bensaadi, Belaid Bouazza

Role of circadian typology in health-related quality of life in asthma

Obesity increases all-cause and cardiovascular mortality in adults with asthma
Helena Backman (Lulea, Sweden), Axel Sturesson, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Linnea Hedman

Asthma and asthma-like symptoms as associated with endometriosis and menstrual pain
Sanjay Gyawali (Bergen, Norway), Marianne Lønnebotn, Ane Johannessen, Eva Lindberg, Lars Modig, Vivi Schlüssens, Thorarinn Gislason, Cecilie Svanes, Francisco Gómez Real

Global, regional, and national trends in incidence of asthma: findings from the Global Burden of Disease Study 2019
Yuhan Xing (Hong Kong, Hong Kong), Yingzhao Jin, Cui Guo, Lai Shan Tam, Dongze Wu

Agreement between self-reported and registered age at asthma diagnosis
Elias Nurmi (Tampere, Finland), Iida Vähätalo, Pinja Ilmarinen, Heidi Andersén, Leena Tuomisto, Anssi Sovijärvi, Helena Backman, Lauri Lehtimäki, Linnea Hedman, Arnulf Langhammer, Bright Nwaru, Päivi Pirilä, Hamu Kankaanranta

Respiratory tract infections associated with asthma exacerbation
Yong Il Hwang (Anyang, Republic of Korea), Ki-Suck Jung, Seung Hun Jang, Kwang Ha Yoo, Jung Hyun Chang

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 Nadi**

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 Fèz-Meknes region, Morocco
Nassiba Bahra (Fèz, Morocco), Soukaina El Yaagoubi, Hind Bourkhime, Nabil Tachfouti, Mohamed Amine Berraho, Mounia Serraj, Mohammed Chakib Benjelloun, Bouchra Aamara, Samira El Fakir

Genetic Association of HDL-C and LDL-C with Risk of Asthma: Two-Sample Mendelian Randomization Analysis
Tsu-Nai Wang, Yi-Shian Liu, Yu-Chun Lin, Meng-Chih Lin, Chao-Chien Wu

Mendelian randomization revealed the impact of GERD on asthma risk
Haoyu Wang (Chengdu, China), Ruiyuan Yang, Dan Liu, Weimin Li

PS-8 in poster area 08:00 - 09:30
Poster session: Clinical aspects in chronic airway diseases
**Disease(s):** Airway diseases, Pulmonary vascular diseases

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

**Chairs:** Mina Gaga (Athens, Greece), Ilidding Horváth (Budakeszi, Hungary)

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**Phenotypic differences of persistent airflow obstruction in young vs old subjects in the general population**
Caspar Schiffers (Vienna, Austria), Rosa Faner, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal, Alvar Argusti

**Neglecting the neglected: Tobacco cessation support is ‘essential’ for the management of asthma and COPD**
Dilek Karadoğan (Rize, Turkey), Ilknur Kaya, Merve Yumruküz Şenel, Esin Bilgin Konyalihatipoğlu, Tahsin Gökhan Telatar, Metin Akgün

**Burden of obstructive airway diseases (OADs) in 618 post-pulmonary TB patients across India.**
Raja Dhar (Kolkata (West Bengal), India), Virendra Singh, Malay Sarkar, Arti Shah, Devasahayam J Christopher, Girija Nair, Arpan Shah, Sonali Trivedi, Suryakant Tripathi, Babaji Ghwade, Aleemuddin N. M. Saurabh Karmakar, Sravinivas Rajgopala, Mohankumar Thakkkinkattil, Rajesh Swarnakar, Arunakumari Badam, Kripesh Sarmah, Srikanth Krishnmurthy, Suresh Anantraj, J. Ram, Archana B, Zuber Ahmed, Sapna Madas, Priyanka Dhumave, Swapnil Gadhave, Sundeep Salvi

**Recovery and health related quality of life (HRQoL) in patients with pre-existing airways diseases: results from a prospective UK cohort (PHOSP-COVID)**
Omer Elnma (Leicester, United Kingdom), Hamish J C Mcauley, John R Hurst, Samantha Walker, Salman Siddiqui, Petr Novotny, Jenni K Quint, Paul Pfeffer, Aziz Sheikh, Jeremy S Brown, Carlos Echevarria, Rachael A Evans, Louise V Wain, Liam G Heaney, Anthony De Soyza, Chris E Brightling

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**IN COVID-19 LONG-TERM IMPAIRMENT OF PULMONARY GAS-EXCHANGE IS DOMINATED BY THE VASCULAR COMPONENT**
Luca Novelli (Bergamo, Italy), Gianluca Imeri, Chiara Allegri, Anna Caroli, Alberto Arrigoni, Roberta Trapasso, Roberta Biza, Marisa Anelli, Carlo Catani, Simone Bonetti, Francesco Caglioni, Caterina Conti, Fabiano Di Marco

**Association between changes in thoracic muscle mass assessed by high resolution computed tomography and static lung volumes in patients with COPD**
Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyrrman Alstes, Esben Bolvig Mark, Rasmus Brath Christensen, Pernille Veiss-Pedersen, Henrik Højgaard Rasmussen, Jens Brøndum Frokjær, Lasse Riis Østergaard, Ulla Moller Weinreich

**Understanding COPD underdiagnosis in the post-COVID era**
ELENA AVALOS PEREZ-URRITA (Madrid, Spain), Maria Rodrigo-García, Adrián Peláez, Laura Castellanos López, Alberto Martínez De Lara, Elena García Castillo, Tamara Alonso Pérez, Celeste Marcos, Rosa Maria Girón Moreno, Claudia Valenzuela, Julio Ancochea, Joan B Soriano

**The impact of a multidisciplinary assessment on COPD hospitalisations**
Finbarr Harneyd (Cork, Ireland), Jack Allen, Michele Cuddihy, Eimear 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 Palaoge

**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 (India), Rajesh Agrawal, Rajat Agrawal

**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 Călărașu, Andreia Mihai, Costin-Teodor Streba

**Evaluation of asthma control in Tunisia: Correlation between GINA guidelines and asthma control test**
Chaima Turki (ariana tinus, Tunisia), Houa Roui, Chirine Moussa, Oumayma Aggouni, Donia Jeridi, Hana Dhifallah, Ibtihel Khouaja, Ines Zenda, Sonia Maalej

**Metabolic Syndrome in a COPD Population: Frequency and Significance**
KHALED DEGHDEGH (Annaba, Algeria), Ouafà 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 Ohata, 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, Yones Essaid, Abdelkarim Khannous, Aboubakr Imzil, Abdelmajid Oulhibb, Fatih Boukhouma, Khadija Attiasser, Houssame Ennaceri, Oussama Halloumi, Houda Moubachir, Hind Serhane

Alpha-1 Antitrypsin Deficiency as a cystic lung disease
Aishath Fazleen (Southampton, United Kingdom), Ausami Abbas, Jonathan Dunbar, Benjamin Welham, Alex Kong, Tom Wilkinson

miR-155 and miR-221 expression in serum exosomes of Iranian moderate-severe asthmatic patients
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda Dezfuli, 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 Kovalchuk, Lyudmyla Prystupa

The X and Y of inflammation, fibrosis and cell death in asthma
Karosham (Diren) Reddy (Glebe, Australia), Dikaia Xenaki, Senani Rathanyake, Sobia Idrees, Fia Boedijono, 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 Shafiek, Josep Muncunill, Aarne Fleischer, Josep Luis Valera, Meritxell López, Rocio Martinez, Aina Martin, Laura Canaves, Lluc Riera, Mar Mosteiro, Ines Escribano, Luis Perez De Llano, Borja G Cosio

MEG3 SNP variants are associated with the risk of asthma
Kuo-Liang Chiu (Taichung, Taiwan), Wen-Shin Chang, Chia-Wen Tsai, Mei-Ching Mong, Te-Chun Hsia, Da-Tian Bau

IL18 as a severity locus for COVID-19
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martinez, Fernanda Genre, Diego Ferrer, Maria Sebastián Mora-Gil, Pilar Alonso-Lecue, Sandra Tello-Mena, Beatriz Abascal-Bolado, Sheila Izquierdo, Juan Jose Ruiz-Cubillan, Carlos Arm świadzanas, Ricardo Blanco, Raquel Lopez-Mejias, Jose M. Cifrian, Miguel A. Gonzalez-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. Hohlfeld, 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 Toshniwal, Gajanan Gondhali, Rajesh Patil, Abhijit Acharya, Deepak Patil

Serum and sputum proteomic biomarkers of eosinophilic and neutrophilic asthma phenotypes

Khezia Asamoah (London, United Kingdom), Kian Fan Chung, Nazanian Zounemat Kermani, Pankaj Bhavsar, Barbara Bodinier, Ian Adcock, Drainan Vuckovic, Marc Chadeau Hyam

Role of CD39 in COVID-19 severity: dysregulation of purinergic signaling and thromboinflammation


Endothelial progenitors exhibit a senescent and prothrombotic phenotype post COVID-19 disease

Koralia Pascalaki (London, United Kingdom), Daisy Gresham, Anand Shah, Peter Kelleher, Anna Reed, Aran Singanayagam, Vassilis Gorgoulis, Peter J. Barnes, Anna Randi, Charis Pericleous, Peter George

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

Immune dysregulation, Th1/Th2 switch failure and Rheumatological predisposition after COVID-19: Certainty and Reality!!

Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Abhijit Acharya, Gajanan Gondhali, Rajesh Patil, Shubhangi Khule, Deepak Patil

Interspecies analysis to dissect transcriptomic signatures of humans and hamsters in COVID-19.

Peter Pennitz (Berlin, Germany), Vincent D. Friedrich, Emanuel Wyler, Julia M. Adler, Dylan Postmus, Sandro Andreotti, Luiz Gustavo Teixeira Alves, Julia Kazmierski, Fabian Pott, Thomas Hoefler, Cengiz Goekeri, Markus Landthaler, Christine Goffinet, Jakob Trimpert, Markus Scholz, Martin Witenrath, Holger Kirsten, Geraldine Nouailles

Understanding the extracellular immunoproteasome in ARDS

Michael C. McKelvey (Cullybackey, United Kingdom), Chloe M. McKeely, Thea Mawhinney, Rebecca C. Coll, Cecilia M. O'Kane, Daniel F. Mcauley, Sinead Weldon, Clifford C. Taggart

**PS-7 in poster area**

**Session**

08:00 - 09:30

**Poster session:** Inhaler devices: environmental impact, technique, and adherence

**Disease(s):** Airway diseases

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

**Chairs:** Omar S. Usmani (London, United Kingdom), Dimitrios Toumpanakis (Athens, Greece)

**Impact of extrafine formulation single-inhaler triple therapy on health-related quality of life after three months of treatment in patients with asthma: the TriMaximize study**


**TRITRIAL study - TRIPLE Therapy in Real life: Impact on Adherence and Health status in COPD patients in Italy.**

Ulrica Scaffidi Argentina (PARMA, Italy), Luca Richeldi, Pietro Schino, Elena Bargagli, Alberto Ricci, Alberto Rocca, Francesca Marchesan, Alfio Pennisi, Gianna Camiciotelli, Mariella D'Amato, Francesco Macagno, Elena Garavelli, Eleonora Ingrassia, Alessio Piraino
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 Wendl, 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?
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

An Algerian study on patient’s attitude towards inhalers
Redouene Sid Ahmed Benazzouz (Alger, Algeria), Safia Benazzouz, Azeddine Mekideche

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 Valant, 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
Djeypapabra Kadara (Liverpool, United Kingdom), Katie Fitzsimmons, Elaine Gossage, Sarah Sibley, Denis Wat, David Barber, Emma Rickards, Samantha Hayes

The transcendence of capsule transparency in dry powder inhalation devices in the treatment of COPD.
Rocio Reinoso Arija (Sevilla, Spain), Rosario Ruiz-Serrano De La Espada, María Dolores Nuñez Ollero, Laura Carrasco Hernandez, María Esther Quintana Gallego, Jose Luis Lopez-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, Gianluigi 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

PS-3 in poster area Session 08:00 - 09:30
Poster session: COVID-19

Disease(s): Interstitial lung diseases, Respiratory critical care, Pulmonary vascular diseases
Method(s): Respiratory intensive care, Epidemiology, General respiratory patient care, Pulmonary function testing, Endoscopy and interventional pulmonology, Imaging

Chairs: Ana Cysneiros (Lisboa, Portugal), Jacobo Sellares Torres (Barcelona, Spain)

Neurofilament light in predicting clinical outcomes in critically Ill COVID-19 patients.
Patrick Smeele (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 Aliberti, 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 Amalric, 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), Soyul 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, Debora 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 NSant’Anna, Larissa P Isensee, Rafaela F Xavier, Jose E Pompeu, Ranata M Weigert, Darlan L Matte, Rozana A Cardoso, Ana C V Abras, Antonio M V Silva, Camila C Dorneles, Roberta W Werle, Ana C Starke, Rodrigo D M Plentz, Juliana C Ferreira, Celso R F Carvalho

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, Valero Alonzi, Gaia Fabbri, Elena Pordon, Maddalena Messina, Vittoria Ventura, Sara Croce, Martina Meocci, Beatrice Perea, 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 Troupapanakis (Athens, Greece), Anna Kyriakoudi, Evangelia Akoumianaki, Eleni Apostolakou, Iliana Ioannidou, Evangelos Kaimakamis, Evangelos Kanariis, Paschalina Kontou, Magdalini Kyriakopoulou, Elstathia Potamianou, Charalampos Psarologakis, Vasiliki Soulountsi, Nektaria Xirouchaki, Antonia Koutsoukou, Konstantinos Pontikis

Awake prone position in COVID-19 patients: a report of experience in a medical ICU
Dhouha Ben Braiek (Sousse, Tunisia), Hend Zorgati, Yosri Ben Ali, Imen Mighri, Nadine Boukadida, Arij Hammedi, Rahma Ben Jazia, Ameni Kacem, 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, Dhuva 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 Yu Jen (Taichung City, Taiwan)

ICU admission for COVID-19 patients: is it safe?
Dhouha Ben Braiek (Sousse, Tunisia), Hend Zorgati, Yosri Ben Ali, Sourour Bel Haj Youssef, Azer Yaacoub, Ines Sebri, Rahma Ben Jazia, Ameni Kacem, Anis Maatallah, Jihene Ayachi

Clinical course and outcome of the COVID-19 infection between vaccinated and unvaccinated patients admitted to the Intensive Care Unit
Figen Mustafa (Varna, Bulgaria), Pavel Yordanov, 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 Galmes

Risk factors and effect on mortality of superinfections in a newly established COVID-19 respiratory sub-intensive care unit at University Hospital in Rome
ALESSANDRA IACOVELLI (Bellegra, Italy), Alessandra Oliva, Guido Siccardi, Angela Tramontano, Daniela Pellegrino, Angelo Petroianni, Claudio Maria Mastroianni, Mario Venditti, Paolo Palange

Identifying core domains of health-related quality of life in chronic pulmonary aspergillosis.
Dareen Marghlani (London, United Kingdom), Lisa Nwankwo, Darius Armstrong-James, Melody Ni, Anand Shah

Accelerated evolution of azole resistant Aspergillus fumigatus by diesel particles
Valentina Huang (London, United Kingdom), Leah Daly, Kirstie Lucas, Kazuhiro Ito

Accuracy of BAL galactomannan and Aspergillus-PCR in diagnosing chronic pulmonary aspergillosis
Animesh Ray (Kolkata (West Bengal), India), Mohit Chowdhury, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Naveet Wig

A prospective study of the impact of a Fungal Multi-Disciplinary Team meeting on patient management at a Tertiary Referral Centre
Tanjila Khan (Harrow, United Kingdom), Nadiya Sultana, Karan Gour, Sarah Sheard, Laura Martin, Anan Ghazy, Joanna Peters, Richard Wilson, Renuka Poharicawan, Mark Gilchrist, Darius Armstrong-James, Meg Coleman, Lydia Finney

MANAGMENT OF ABPA WITH AZOLES AND STERIOD THERAPY
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Stefano Carlo Zucchetti, Paola Favero

Fighting aspergillosis using biocontrol bacteria
Niki Ubags (Epalinges, Switzerland), Aurélien Trompette, Apina Shannuganathan, Julie Pernot, Fabio Palmieri, Eric Bernasconi, Christophe Von Garnier, Janick Sticki, Nina Hobi, Pilar Junier, Angela Koutsokera

Dry powder aerosol of amphotericin b for treatment of pulmonary fungal disease
Matthew Reed (Albuquerque, United States), Craig Davies-Cutting, David Revelli, Ann Hefnawy, Hugh Smyth, Daniel Moraga-Espinoza, Philip Kuehl, Matthew Ferguson

Environmental Aspergillus fumigatus associates with COPD exacerbations
Pei Yee Tiew (Singapore, Singapore), Micheal Mac Aogain, Tavleen Kaur Jaggi, Fransiskus Xaverius Ivan, Augustine Tee, Huiying Xu, Mariko Siyue Koh, Thun How Ong, John A. Abisheganaden, Stephan C. Schuster, Sanjay H. Chotirmall

The impact of bacterial and fungal co-infections in patients with severe COVID – 19: a retrospective analysis
Pavel Yordanov (Varna, Bulgaria), Figen Mustafa, Vanya Kostadinova, Tanya Dobreva, Nadezhda Ilieva, Velislava Tasheva, Rositsa Krasteva, Konstantin Kapitanov, Pavlina Peneva, Darina Miteva, Valentina Dimitrova, Diana Petkova
Retrospective review of fungal lung disease management, Brighton UK
Syra Dhillon (Wokingham, United Kingdom), Emma Rivera, Aoife Hendrick, Gillian Jones, Vanessa Kahr, Katharine Hurt

Asthma and bronchial infection
Tarekk Cherif (Ariana, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Azza Slim, Hafaoua Daghfous, Fatma Tritar

Impact of duration of inhaled antibiotic treatment in COPD patients with chronic bronchial infection by Pseudomonas
Miguel Angel Leal García (Terrassa, Spain), Roser Costa Solá, Andrea Hernández Rizo, Annie Navarro Rolón, Cristina Esquinas López, Jose Sanz Santos, Marc Miravitlles

Mucus, microbiomes, and lung function decline in COPD
Oliver Ward Meldrum (Singapore, Singapore), Gavin C. Donaldson, Jayanth Kumar Narayana, Fransiskus Xaverius Ivan, Tavleen Kaur Jagg, Michele Mac Aogain, James P. Allinson, Jadwiga A. Wedzicha, Sanjay H. Chotirmall

Tolerance to inhaled antibiotic therapy in COPD patients and chronic bronchial infection by Pseudomonas
Miguel Angel Leal García (Terrassa, Spain), Roser Costa Solá, Andrea Hernández Rizo, Cristina Esquinas López, Jose Sanz Santos, Marc Miravitlles

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 Jagg, 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
Hadhemi Rejeb (Sousse, Tunisia), SABRINE ELFIDHA, Nouha Guedri, Hanen Smadhi, Hajer Abdelghaffar, Hela Hassene, Dorra Greb, Ines Akrout, 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. Kluytmans, Hessel Peters-Sengers, Tom Van Der Poll

Late Breaking Abstract - Flagellin as an adjunctive to antibiotic treatment of MDR-Klebsiella pneumonia in mice
Christine C. A. van Linge (Amsterdam, Netherlands), Osool Chouchane, Jean-Claude Sirard, Wil H. F. Goessens, Alex F. De Vos, Tom Van Der Poll

**PS-6 in poster area**

**Session** 08:00 - 09:30

**Poster session: Translational approaches in fibrotic lung diseases: from bench to bedside**

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

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

*Chairs:* Isis Enlil Fernandez (München, Germany), Carlos Esteban Machahua Huamani (Bern, Switzerland)

**Effect of the HDACs inhibitor, Panobinostat, in a rat model of pulmonary fibrosis**
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Francesca Ruscitti, Silvia Pontis, Maria Gloria Pittelli, Giancarlo Aquino, Roberta Volta, Barbara Pioselli, Maria Laura Faietti, Maurizio Civelli, Marcello Trevisani

**Resolvin E3 inhibits phosphorylation of p38 MAPK signaling pathway leading to the reduction of TGF-β1 production on macrophage**
Masakiyo Yatomi (Maebashi, Japan), Yasuhioko Koga, Haruka-Aoki Saito, Makiko Sato, Yosuke Miura, Hiroaki Tsurumaki, Noriaki Sunaga, Toshitaka Maeno, Satoshi Shuto, Takeshi Hisada

**Effects of macrophage transplantation in bleomycin-induced pulmonary fibrosis in mice**
Jun Ikari (Chiba, Japan), Eiko Suzuki, Megumi Katsumata, Masaki Suzuki, Ayako Shimada, Nozomi Tanaka, Keiko Yamamoto, Ayumi Sekine, Yoshitoshi Kasuya, Koichiro Tatsumi, Takaji 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. Nawijn, 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), Brian Oliver

Inhibiting Galectin-3-induced TGF-β production by human lung fibroblasts, a potential valuable therapy for Idiopathic Pulmonary Fibrosis
Alvise Casara (Padua, Italy), Nicol Bernardinello, Maria Conti, Nadia Freato, Laura Bertocchi, Tommaso Neri, Alessandro Celi, Paolo Spagnolo, Marina Saetta, Manuel G. Cosio, Erica Bazzan

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

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, Inês Roger, Consol Farrera, Cristina Fernández-Asensio, Silvia Sánchez-Diez, Julio Cortijo

Interalveolar pores and association with (pre-)COPD stage and small airways
Stijn Verleden (Leuven, Belgium), Cindy Mai, Amemiek Snoeckx, Annelies Janssens, Senada Koljenovic, Paul Van Schil, Veronique Verplancke, Johanna Kwakkel-Van-Erp, Hanne Voet, Therese Lapperre, Jeroen Hendriks

Favorable lung biodistribution profile of CTGF-targeting Anticalin protein PRS-220 for inhaled treatment of IPF patients
Vanessa Neiens (Hallbergmoos, Germany), Marina Pavlidou, Nicolas Schwenck, Marleen Richter, Athanasios Fysikopoulos, Thomas Jaquin, Eva-Maria Hansbauer, Antonio Konitsiotis, Cornelia Wurzenberger, Maximilian Grill, Karl-Robert Wichmann, Jonas Biehler, Kei W. Müller, Gabriele Matschiner, Shane Olwill

Late Breaking Abstract - Calcaratarin D, a labdane diterpenoid, attenuates TGF-β1-induced airway epithelial-mesenchymal transition and lung fibroblast activation
Wupeng Liao (Singapore, Singapore), Winnie Teo, W.S. Fred Wong

Late Breaking Abstract - Investigation of cKIT driven bone marrow toxicity and translation to human clinical outcomes
Marie Larsson (Molndal, Sweden), Sonja Gill, Carmen Pin, Fiona Pachl, Kainat Khan, James Cartwright, Ruth Macdonald, Jonathan Rose, Benjamin Clayton, Emilienne Leonard, Lorret Horning, Anna Ollerstam

Role of apoptosis signal-regulating kinase-1 (ASK1) in the development of pulmonary fibrosis
Martina Korfei (Gießen, Germany), Julie Antoine, Azam Mohammadi, Stefan Hadzie, Ingrid Henneke, Poornima Mahavadi, Ekaterina Krauss, Clemens Ruppert, Werner Seeger, Andreas Guenther

Loss of cofilin 1 in the airway epithelium of COPD causes mitochondrial dysfunction
Venkataramana Sidhaye (Baltimore, United States), Baishakhi Ghosh, Bonnie Yeung-Luk, Vaishnavi Karanam, Shreeti Thapa

Elastase inhibitory activity (EIA) in Chronic Obstructive Pulmonary Disease (COPD) and Alpha-1 Antitrypsin Deficiency (AATD)
Georgina Farago (Barcelona, Spain), Gerard Orriols, Alexa Nuñez, Cristina Esquinas, Galo Granados, Pablo Gabriel-Medina, Cristina Alajana, Miriam Barrecheguren, Francisco Rodriguez-Frias, Marc Miravilles

Targeting lung fibroblast senescence to restore ECM regulation in COPD
Roy R. Woldhuis (Groningen, Netherlands), Maarten Van Den Berge, Wierd Kooistra, Wim Timens, Corry-Anke Brandsma

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

PS-13 in poster area Session 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, Public health, General respiratory patient care

Chairs: Emanuela Zannin (Milano (MI), Italy), Anna Lavizzari (Milano (MI), Italy)

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

Anna Lavizzari (Milano (MI), Italy), Alessia Mariani, Elisabetta Ghezzi, Nicola Pesenti, Marijke Ophorst, Silvana Gangi, Mariarosa Colnaghi, Fabio Mosca

A morphometric lung model for studying lung aeration at birth
Chiara Veneroni (Milano (MI), Italy), Enrico Conca, Davide Bizzotto, Alberto Tosi, Kenneth Lutchen, Raffaele Dellaca

Lung function response to postnatal corticosteroids in very preterm infants
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Sofia Chiaraluce, Maria Luisa Ventura

Reduced lung function during childhood after fetal growth restriction in discordant identical twins
Jip Anne Spekman (Leiden, Netherlands), Joël Israëls, Ilja De Vreede, Mady Los, J J Miranda Geelhoed, Monique C Haak, Arno A W Roest, Jeanine M M Van Klink, Enrico Lopriore, Sophie G Groene

Pulmonary Function by Impulse Oscillometry System and Outcomes in Children Born Extremely Preterm at 4 Years of Age
Celine Delestrain (Creteil, France), Kenza Tahir, Floriane Sauvage, Kamel Halitim, Xavier Durrmeyer, Houmam El Jurdi, Camille Jung, Isabelle Hau, Manon Tauzin, Fabrice Decobert, Christophe Delacourt, Ralph Epau, Fouad Madhi

Can breathing pattern assessment predict the need for ventilatory support in treated Spinal muscular atrophy type I (SMA1) infants?
Antonella LoMauro (Milano (MI), Italy), Chiara Mastella, Mariacristina Scoto, Francesco Muntoni, Elaine Chan, Lisa Edel, Andrea Aliverti, Giovanni Baranello

Lung biopsies in infants and children in critical care situation

Petra Johanna Um-Bergström (Sollentuna, Sweden), Linn Löfberg, Thomas Abrahamsson, Magnus Domellöf, Aijaz Farooqi, Christian Gadsbøll, Anders Elfvin, Stellan Häkansson, Karin Källén, David Ley, Mikael Norman, Erik Normann, Fredrik Serenius, Richard Sindelar, Karin Sävman, Lena Hellsström Westas, Ulrika Aden, Lars Björklund

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 Rodriguez-Sánchez De La Blanca, Martín Santos, Bárbara Olmeda Lozano, Jesús Pérez-Gil, Manuel Sánchez-Luna

Circulatory adaptation to dexamethasone for severe lung disease in extremely preterm infants: An echocardiographic study
Arvind Sehgal (Melbourne (VIC), Australia), Marcel Nold, Calum Roberts, Samuel Menahem

Dose-dependent impact of human milk feeding on tidal breathing flow-volume loop-parameters across the first two years of life in extremely low-birth-weight infants.
Anna Lavizzari (Milano (MI), Italy), Benedetta Esposito, Nicola Pesenti, Giulia Vizzari, Marijke Ophorst, Silvana Gangi, Mariarosa Colnaghi, Fabio Mosca, Maria L Giannì

Optimization of albuterol delivery via an anesthesia bag in pediatric critical care
Sebastien Tessier (Winnipeg, Canada), Louise Chartrand, Andrew Halayko, Victoria Plowsay

Associations between ethnicity, oxygenation and oxidative stress in preterm infants
Ourania Kaltsogianni (London, United Kingdom), Sara Zaidi, Ravindra Bhat, Anne Greenough, Theodore Dassios

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 Oyarzún Aguirre, Gonzalo Moscoso Altamira, Claudia Astudillo M, L.Felipe Damiani
The hypoxic challenge test in preterm born infants
Stephanie J.A. Balink (Rotterdam, Netherlands), Andre A. Kroon, Liesbeth Duijts, Renate M.C. Swarte, Beatrijs Bartelds, Laurens P. Koopman, Irwin K.M. Reiss, Marielle W.H. Pijnenburg

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)
Naomi Hemy (ASHFIELD, Australia), Amber Bates, Belinda Frank, Anne Mc Kenzie, Shannon Simpson

Late Breaking Abstract - MRI identifies functional and structural BPD characteristics in preterm infants at five years of age
Anne Hilgendorff (München, Germany), Kathrin Strobl, Kai Foerster, Alida Kindt, Friederike Häfner, Benjamin Schubert, Florian Heinen, Andreas Flemmer, Olaf Dietrich, Sophia Stöcklein

PS-1 in poster area

Session 08:00 - 09:30
Poster session: Clinical problems in tuberculosis and other respiratory infections

Disease(s): Respiratory critical care, Interstitial lung diseases, Airway diseases
Method(s): Public health, Cell and molecular biology, Imaging, Palliative care, Physiology, Pulmonary rehabilitation, Respiratory intensive care, General respiratory patient care, Epidemiology

Chairs: Christian Niels Meyer (Roskilde, Denmark), Priti Meshram (Mumbai (Maharashtra), India)

Predictors of pulmonary tuberculosis relapse
Selsabil Daboussi (Tunis, Tunisia), Améni Naaroura, Samira Mhamdi, Safa Marzouki, Houda Snoussi, Chiraz Aichouia, Zied Moetemri

Pseudotumor tuberculosis: a rare form
Sofia El hanafy (Casablanca, Morocco)

Errors in the diagnosis of tuberculosis in children under the conditions of the COVID-19 pandemic.
Cristina Liscinscaia (Chisinau, Republic of Moldova), Stela Kulciţkaia, Constantin Iavorschi, Iulia Ghimisli

Mortality of tuberculosis patients due to associated diseases and other causes
Igor Ivanes (Chisinau, Republic of Moldova), Aurelia Ustian, Vasile Popa, Anastasia Ivanes

Mortality in tuberculosis
Fettal Nadia (Sidi Bel Abbes, Algeria), akram Benhaddad

Correlation between imaging in non-cystic fibrosis bronchiectasis and prognosis scores
Donia Jeridi (Ariana, Tunisia), Houda Rouis, Chirine Moussa, Chaima Turki, Oumaima Aggouni, Hana Dhifallah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej

COPD as a post-tuberculosis lung disease: multicenter retrospective cohort study
YEJIN LEE (SEOUL, Republic of Korea), Dong-Hyun Joo, Sooim Sin, Hyerin Kang, Jin Hwa Song

Efficacy of inhaled antibiotic therapy in patients with bronchial infection due to Pseudomonas aeruginosa
Ana Mendes Silva (Barcelona, Spain), Joel Lakhani, Genesis Parada, David Rosa, Paula Pujal, Noe Garin, Laura Villamarin

Impact of tuberculosis on the evolution of pregnancy, delivery and perinatal outcomes
Igor Ivanes (Chisinau, Republic of Moldova), Ecaterina Evstrati, Stela Kulcițkaia, Anastasia Ivanes

Post-COVID-19 pulmonary complications in the chest clinic of Oran, Algeria
Abdellaouf Snouber (Oran, Algeria), Siham Benzaïd, Nesrine Azizi, Nesrine Bouhcha Bourouis, Mustapha Benammar, Karima Boualem

Radiological pulmonary manifestations in patients with achalasia
Jelena Jankovic (Beograd, Republic of Serbia), Branislava Milenkovic, Zlatan Bojic, Nikola Colic

Retrospective observational study looking at inpatient burden of winter respiratory viral illness in a district general respiratory unit
Usman Zafar Kahara (Birmingham, United Kingdom), Gagandeep Aulakh, Abhimanyu Lal, See Ling Tan
Association Between Timed Up-and-Go Test and Subsequent Pneumonia
Tae Yun Park (Seoul, Republic of Korea), Hyo Jin Lee

In-hospital mortality by different CURB type severity scores of community-acquired pneumonia
Hyonsoo Joo (Seoul, Republic of Korea), Mira Cho, Seohyun Kim, Yunhee Lee, Jun-Pyo Myong, Jae Jeong Shim, Tai Joon An, Hyoung Kyu Yoon

Prevalence of newly acquired conditions and impact on quality of life one year after hospital discharge for COVID-19
Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Woloff, Archie Walters, Louise Wain, Chris Brightling, Michael Marks, Andrew Briggs

Phenotypes in ‘Long COVID’ presenting as ‘tsunami of multisystem syndrome’ of this decade: Is it really preventable or occurs as natural course of disease?
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Gajanan Gondhal, Rajesh Patil, Utreshvar Dhumal, Abhijit Acharya, Shubhangi Khule, Deepak Patil

Efferent therapy in complex treatment of patients with coronavirus associated pneumonia
Oksana Viltsaniuk (Vinnytsya, Ukraine), Yuriy Mostovoy

90-Day outcomes in patients with severe COVID-19 treated with invasive mechanical ventilation.
Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Satoshi Tanaka, Yusuke Shinozaki, Junko Shibuya, Hajime Tsuruoka, Shin Matsuzawa, Hiromi Muraoka, Atsuko Ishida, Hirotaka Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine

COVID-19 as endothelial dysfunction trigger
Nataliia Habshyde (Dnipro, Ukraine), Tetiana Pertseva, Lyudmyla Konopkina, Yuliia Hyba, Maria Krykhtina

Theranostic algorithm to prevent post-COVID-19 pulmonary fibrosis
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Cécile Duterme, Alain Roman, Hafid Dahma, Stephane Alard, Stephanie Andre, Dragos Barglazan, Audrey Chirumberro, Frederic Cotton

**Silver Session 08:30 - 10:00**

Symposium: Pulmonary hypertension and interstitial lung diseases: dilemmas in diagnosis and the conundrum of treatment
Aims: to provide the latest updates on pulmonary hypertension (PH) due to interstitial lung disease (ILD), including screening/diagnosis, treatment and future research directions. PH often complicates many forms of advanced lung disease, including pulmonary fibrosis; to discuss the main novel achievements (pathophysiology, diagnosis and management) in the field of PH when patients have CLDs; to strengthen understanding of PH due to lung diseases and to improve the care and quality of life of affected patients.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Radiologist, Scientist (basic, translational)

**Chairs:** Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France), Thomas Koudstaal (Rotterdam, Netherlands)

**08:30** What do we know about the mechanisms of PH in ILD: translational research
Soni Savai Pullamsetti (Giessen, Germany)

**08:45** From screening to phenotypes in PH-ILDs: the impact of new guidelines
Lucilla Piccari (Barcelona, Spain)

**09:00** Proc: it is time to treat PH in ILD
Oksana Shlobin (Falls Church, United States)

**09:15** Con: it is not time to treat PH in ILD
Stephen Wort (London, United Kingdom)

**09:30** Discussion and Q&A

**Coral 3 Session 08:30 - 10:00**

Hot topics: Non-invasive high-flow nasal therapy or positive pressure ventilation in acute and chronic respiratory care
Aims: to discuss the mechanisms, evidence for clinical effectiveness and cost-effectiveness of non-invasive positive pressure ventilation and high-flow nasal therapy in acute and chronic respiratory failure.

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/ Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physiologist, Respiratory physiotherapist

Chairs: Peter J. Wijkstra (Groningen, Netherlands), Heleen Demeyer (Leuven, Belgium)

08:30 Flow treatment in acute respiratory care
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
Method(s) : Endoscopy and interventional pulmonology   General respiratory patient care   Surgery
Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physician in Pulmonary Training, Thoracic surgeon

Chairs : Walter De Wever (Leuven, Belgium), Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

08:30 The medical management of spontaneous pneumothorax
Steven Walker (Bristol (Avon), United Kingdom)

08:45 The surgical management of spontaneous pneumothorax
Giuseppe Cardillo (Roma (RM), Italy)

09:00 Discussion and Q&A

09:15 What’s new in sCAP
Ignacio Martin-Loeches (Dublin, Ireland)

09:30 Coadjuvants in sCAP
Antoni Torres Marti (Barcelona, Spain)

09:45 Discussion and Q&A

Coral 4+5 Session 08:30 - 10:00

State of the art session: Sleep and breathing disorders
Sleep-disordered breathing and the heart. What is next?

Aims : to discuss the latest data about sleep-disordered breathing in association with cardiovascular disease; to present and discuss new evidence in the field that will contribute to the management of sleep-disordered breathing.

Disease(s) : Sleep and breathing disorders

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Patient, Journalist

Chairs : Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

08:30 Antihypertensive drugs vs. positive pressure. Which one is better to reduce hypertension?
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

Coral 2 Session 08:30 - 10:00

Clinical cases: Clinical challenges beyond guidelines

Aims : to describe the controversial aspects of the current guidelines for the environmental health prevention and air pollution standards, management of adult bronchiectasis, diagnosis and treatment of Langerhans cell histiocytosis in adults and treatment of stage I non-small cell lung cancer; to discuss data underpinning nonadherence and alternative approaches to current recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern; to highlight the need for further research.

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

Tag(s) : Clinical

Chairs : Albert Osterhaus (Hannover, Germany), Michael Loebinger (London, United Kingdom), Sara Tomassetti (Florence, Italy)

08:30 Management of adult bronchiectasis, including Q&A
Eva Van Braeckel (Ghent, Belgium)
Purple Session 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

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

Chairs: Joana Cruz (Leiria, Portugal), Christian Karagiannidis (Cologne, Germany), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

08:30 Patient and outcome assessment for care and rehabilitation at home
Narelle Cox (Melbourne (VIC), Australia)

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
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 Mcquilten, Nicholas West, Ping Zhang, Scott White, Bruce E Miller, Ruth Tal-Singer, Christophe Demaison

Omer Elneima (Leicester, United Kingdom), Hamish J C McAuley, Olivia C Leavy, James D Chalmers, Ling-Pei Ho, Alexander Horsley, Michael Marks, Betty Raman, Krisnah Poinasamy, Amisha Singapuri, Rachael A Evans, Chris E Brighting, Louise V Wain

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

Diagnosis of COVID-19 with enhanced real-time mass spectrometry breath analysis
Stanislas Grassin Delyle (Montigny le Bretonneux, France), Camille Roquencourt, Hélène Salvador, Emmanuelle Bardin, Elodie Lamy, Eric Farfour, Naline Emmanuel, Philippe Devillier

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

Plasma proteomics of critical COVID-19 patients and the effect of imatinib treatment
Erik Duijvelaar (Amsterdam, Netherlands), Jack Gisby, James E Peters, Harn Jan Bogaard, Jurjan Aman

Expression patterns of Interleukin-33 and its receptor ST2 in severe COVID-19
Caroline Lindö (Lund, Sweden), Natália De Souza Xavier Costa, Premkumar Siddharaj, Jimmie Jönsson, Jamie M Orengo, Matthew A Sleeman, Sandra Lindstedt, Cecilia Andersson, Luiz Fernando Silva, Armaro Nunes Duarteneto, Paulo Hilario Nascimento Saldiva, Caroline Sandén, Thais Mauad, Paulo Hilario Nascimento Saldiva, Caroline Sandén, Thais Mauad, Jonas Erjefält

DIURNAL RHYTHMS IN COVID-19 VACCINE EFFICACY
Guy Hazan (Dvira, Israel), Or Duek, Hillel Alapi, Huram Mok, Alex Ganninger, Elaine Ostendorf, Carrie Giersbach, Gabriel Chodick, David Greenberg, Jeffrey Haspel

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 Pelaiz, Esteve Fernandez, Julio Ancochea

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

Discussion and Q&A
Polygenic and transcriptional risk scores identify chronic obstructive pulmonary disease subtypes
Matthew Moll (Boston, United States), Julian Hecker, John Platig, Auyon Ghosh, Katherine Pratte, Davin Hill, Iain Konigsberg, Joe Chiles, Craig Hersh, Peter Castaldi, Kimberly Glass, Jennifer Dy, Don Sin, Ruth Tal-Singer, Majd Mouded, Stephan Remand, Gary Anderson, Russell Bowler, Jeffrey Curtis, Merry-Lynn Mc aldond, Edwin Silverman, Michael Cho, Brian Hobbs

Effect of anti-ST2 on blood leukocyte and serum protein levels: insight from a phase IIa, placebo-controlled trial of astegolimab (COPD-ST2OP).
Adam Wright (Leicester (Leicestershire), United Kingdom), Matthew Richardson, Seid Mohammed, Claudia Micieli, Dorothy Cheung, David Cousins, Ahmed Yousuf, Neil Greening, Michele Grimbaldeston, David Choy, Christopher Brightling

Prediction of severe asthma clinical phenotypes using molecular profiles of urine eicosanoids
Johan Kolmert (Stockholm, Sweden), Maria Sparreman-Mikus, Bertrand De Meulder, Lars I Andersson, Ian Adcook, Ratko Djukanovic, Sven-Erik Dahlén, Craig E. Wheeelock

Infertility in women with asthma – does asthma also exist in the uterus?
Anne Vejen Hansen (København NV, Denmark), Casper Tidemandsen, Henriette Svarre Nielsen, Antje Johanne Katrine Stubbgaard, Elisabeth Juul Gade, Pia Egerup, Lea Langhoff Thuesen, Paul S Foster, Vanessa M Mcdonald, Peter G Gibson, Charlotte Suppli Ulrik, Nina Cour Freiesleben, Vibeke Backer

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

Innate lymphoid cells type 2 and CD8+ T cells are perturbed in overweight and obese individuals with asthma
Chris Tibbitt (Stockholm, Sweden), Sofía Björkander, Paul Maier, Maura Kere, Simon Kebede Merid, Lorenz Wirth, Whitney Weigel, Jenny Mjösberg, Erik Melén

Charcot-Leyden crystals are associated with airway autoimmune responses in severe asthma
Kiho Son (Hamilton (ON), Canada), Kayla Zhang, Raquel Lopez, Aswathi Nair, Emily Volfsón, Katherine Radford, Nicola Calma, Melanie Kjarsgaard, Chynnna Huang, Parameswaran Nair, Manali Mukherjee

Discussion and Q&A

Yellow 1+2+3 Session 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

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 Rönmark, 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 Gruzieve, 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 Gruzieve, Judith Garcia-Aymerich, Sara Koch, Chloe 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, Jouni 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), Yoon-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 Muhongerva, Jan 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 Solà-Morales

Discussion and Q&A

Blue 1+2 Session 09:30 - 10:45

Oral presentation: Paediatric bronchology: next generation
Disease(s): Interstitial lung diseases, Respiratory critical care
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Epidemiology, Pulmonary function testing, Transplantation, Cell and molecular biology
Chairs: Raffaella Nenna (Rome, Italy), Nadine Freitag (Krefeld, Germany)

Childhood interstitial lung disease in Turkey: First data from the national registry

Analysis of risk factors for protracted bacterial bronchitis in infancy and long-term sequelae
Anne Schlegtendal (Bochum, Germany), Karen Brückner, Jan Hermann, Stefanie Dillenhöfer, Christoph Maier, Folke Brinkmann, Cordula Koerner-Rettberg

The effect of nutritional parameters on the prognosis of childhood interstitial lung diseases

Paediatric lung transplantation for children with interstitial lung disease: A 12-year single-center analysis of underlying ChILD diagnoses and outcome
Julia Carlens (Hannover, Germany), Nicolaus Schwerk, Carsten Müller, Katharina Schütz, Florian Länger, Gesine Hansen, Jawad Salman, Dmitry Bobylev, Fabio Ius

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

Serum biomarkers in persistent tachypnea of infancy (CRC chILD-EU)
Honorata Marczak (Warszawa, Poland), Joanna Peradzyńska, Magdalena Paplińska-Goryca, Paulina Misiukiewicz-Stępień, Małgorzata Proboszcz, Katarzyna Krenke

Respiratory response to chronic aspirations in children
Nadine Freitag (Krefeld, Germany), Thi Minh Thao Lea Nguyen, Katrin Krug
Flexible bronchoscopy in pediatric patients with Down syndrome: a case-control study of the indications, findings, and complications
Noga Arwas (Beer Sheva, Israel), Aviv Goldbart, Micha Aviram, Yotam Dizitzer, Itay Pansky, Inbal Golan-Tripto

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

Discussion and Q&A

Red 1+2 Session 09:30 - 10:45
Oral presentation: OP/RCT

Studio (White) Session 10:00 - 10:50
Experts interview: Preparing for the next pandemic/respiratory physiotherapy in children
Chairs: Sejal Saglani (London, United Kingdom), Ioannis Vogiatzis (Blyth, United Kingdom)

10:00 Preparing for the next pandemic: zoonoses and global epidemics

10:15 Discussion and Q&A

10:25 Respiratory physiotherapy in children
Kris Ides (Antwerpen, Belgium)

10:40 Discussion and Q&A

Silver Session 10:15 - 11:45
Symposium: Difficult treatment decisions in pulmonary hypertension

Aims: to discuss different treatment possibilities for pulmonary hypertension (PH) patients with right heart failure, including the use of catecholamines, the impact of mechanical ventilation and the use of extracorporeal membrane oxygenation; to describe the risks of pregnancy in patients with pulmonary arterial hypertension (PAH), including the risks in delivery and the postpartum period; to discuss different clinical approaches to pregnancy in PAH patients; to discuss the difficulties in treating elderly PAH patients with multiple comorbidities; to highlight care of end-stage PAH patients and options for palliative care.

Disease(s): Pulmonary vascular diseases, Respiratory critical care
Method(s): Palliative care, Respiratory intensive care
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Respiratory therapist

Chairs: Marc Humbert (Le Kremlin-Bicêtre, France), Katerina Antoniou (Heraklion, Greece), Thomas Koudstaal (Rotterdam, Netherlands)

10:15 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)

11:15 Discussion and Q&A

### Coral 4+5 Session 10:15 - 11:45

**Symposium: New insights into diagnostic aspects of sleep-disordered breathing**

**Aims:**
- To describe new insights from recent clinical trials and meta-analyses about the diagnosis of sleep-disordered breathing (SDB);
- To address different important aspects such as new diagnostic tools, including cardiovascular parameters and artificial intelligence, and their technical standards and clinical implications;
- To evaluate the pathophysiological traits of SDB from routine polysomnography or polygraphy signals and their role in the evaluation of SDB severity;
- To discuss the importance of new biomarkers and the diagnostic approach in patients with excessive daytime sleepiness.

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

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

**Tag(s):**
- Clinical

**Target audience:**
- Adult pulmonologist/Clinician,
- Clinical researcher,
- General practitioner,
- Medical Student,
- Nurse,
- Respiratory critical care physician,
- Paediatrician,
- Patient,
- Physician in Pulmonary Training,
- Physiologist,
- Respiratory physiotherapist

**Chairs:**
- Winfried J. Randerath (Solingen, Germany),
- Sophia E. Schiza (Heraklion, Greece),
- Matteo Bradicich (Zollikerberg, Switzerland)

**10:15 New diagnostic tools for SDB: from technical standards to artificial intelligence and clinical implications**
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**

### Coral 1 Session 10:15 - 11:45

**Symposium: Exocited: the importance of extracellular vesicles in lung disease**

**Aims:**
- To present leading avenues of investigation that will enhance the participants’ understanding of extracellular vesicle research in different lung diseases,
- Their contribution to (patho)physiology and therapeutic strategies employing/targeting extracellular vesicles;
- To focus on current advances in our knowledge of extracellular vesicles;
- To discuss how the integration of cutting-edge technologies can help increase understanding of their contribution to lung diseases;
- To discuss preclinical development of therapeutic strategies harnessing extracellular vesicles as a therapeutic target or biomarker, together with scientific advancements that may direct current and future therapeutic development;
- To describe proper isolation techniques for extracellular vesicles and the need for associated quality control parameters;
- To discuss the potential for developing therapies and biomarkers based on extracellular vesicles and opportunities for future studies;
- To explain the roles of extracellular vesicles in chronic obstructive pulmonary disease, idiopathic pulmonary fibrosis and COVID-19.

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

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

**Tag(s):**
- Basic science

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

**Chairs:**
- Niki L. Reynaert (Maastricht, Netherlands),
- Christopher E. Brightling (Leicester (Leicestershire), United Kingdom),
- Sara Cuevas Ocaña (Nottingham, United Kingdom)

**10:15 Deciphering extracellular vesicle cargo and its implications for pulmonary fibrosis**
Olivier Burgy (Dijon, France)
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<tr>
<th>Time</th>
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<th>Speaker/Institution</th>
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<tbody>
<tr>
<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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<tr>
<td>11:00</td>
<td>Mesenchymal stem cell-derived extracellular vesicles as executers of host cell reprogramming in acute respiratory distress syndrome</td>
<td>Anna Krasnodembskaya (Belfast (Belfast), United Kingdom)</td>
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<tr>
<td>11:15</td>
<td>Discussion and Q&amp;A</td>
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**Coral 3 Session 10:15 - 11:45**

**Hot topics: Emerging evidence to improve quality of survival after critical illness**

**Aims:**
- 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;
- 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;
- increase awareness of the complicated and persistent morbidity and resulting rehabilitation needs that follow critical illness, reviewing recent studies on outcomes after critical illness;
- 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)

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<th>Time</th>
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<tr>
<td>10:15</td>
<td>Lessons from the TEAM trial on early mobilisation of critically ill patients</td>
<td>Carol Hodgson (Melbourne, Australia)</td>
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<tr>
<td>10:30</td>
<td>Effectiveness of respiratory muscle training for improving weaning outcomes and functional recovery in mechanically ventilated patients</td>
<td>Daniel Langer (Leuven, Belgium)</td>
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<tr>
<td>10:45</td>
<td>Multidimensional disability after critical illness: implications for rehabilitation</td>
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<td>11:00</td>
<td>How to build a personalised rehabilitation program for intensive care unit survivors?</td>
<td>Carolyn Rochester (New Haven, United States)</td>
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<td>11:15</td>
<td>Discussion and Q&amp;A</td>
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**Coral 2 Session 10:15 - 11:45**

**Respiratory medicine meets other disciplines: Acute respiratory infections: what's new?**

**Aims:**
- provide an update about the latest data on the evolution, epidemiology, pathogenesis, prevention and treatment of influenza, COVID-19 and other respiratory virus infections;
- discuss the disease pathogenesis with a focus on systemic and mucosal biomarkers;
- 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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<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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</table>
10:45 Prevention: strategies to prevent infection by vaccination and other measures
Hanna Nohynek (Helsinki, Finland)

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

Gold Session 10:15 - 11:45

Clinical cases: Imaging of environment-induced changes in the lung
Imaging in the era of air pollution

Aims: to explain which common respiratory disorders are related to air pollution and environmental changes, and to explain when imaging is necessary in these cases and the associated imaging findings.

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

Method(s): General respiratory patient care, Imaging, Public health

Tag(s): Clinical

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

Chairs: Walter De Wever (Leuven, Belgium), Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

10:37 Hypersensitivity pneumonitis, 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)

Purple Session 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

10:30-11:15 INDUSTRY SKILLS LAB WORKSHOP
ERS Stand/World Village  
Session  
Patient: Coffee and clean air -2

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

Skills workshop: SW8 Practicalities of spirometry and whole-body plethysmography

Aims: to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

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

Method(s):  
- Physiology  
- Pulmonary function testing

Tag(s):  
- Clinical

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

Chairs: Frits M.E. Franssen (Horn, Netherlands)

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<tr>
<td>10:40</td>
<td>Introduction</td>
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<td>10:40</td>
<td>Performing spirometry</td>
<td>Matthew Rutter (Cambridge, United Kingdom)</td>
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<td>10:40</td>
<td>Standardised static lung volume measurement using whole-body plethysmography</td>
<td>Monique Wapenaar - De Korver (Vlaardingen, Netherlands)</td>
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<td>10:40</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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<td>10:40</td>
<td>Reporting and interpretation of case studies</td>
<td>Gregory King (Sydney (NSW), Australia)</td>
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Amber 1+2  
Session  
10:40 - 13:00

Skills workshop: SW5 Interpretation of cardiopulmonary exercise tests

Tips and pitfalls in cardiopulmonary exercise testing assessment

Aims: to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

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

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

Tag(s):  
- Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

Chairs: William Stringer (Long Beach, United States)

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<tr>
<td>10:40</td>
<td>Introduction</td>
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<td>10:40</td>
<td>Relationship between oxygen uptake and work rate</td>
<td>Paolo Onorati (Alghero (SS), Italy)</td>
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<td>10:40</td>
<td>Anaerobic/lactate threshold</td>
<td>Luis Puente Maestu (Madrid, Spain)</td>
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<td>10:40</td>
<td>Ventilatory efficiency</td>
<td>Andrew Ramsook (Rochester, United States)</td>
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<td>10:40</td>
<td>Breathing pattern and dynamic hyperinflation</td>
<td>Pierantonio Laveneziana (Paris, France)</td>
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Blue 1+2  
Session  
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

Chairs:
Late Breaking Abstract - Contributing factors of fatigue in COPD: results from the FAntasTIGUE study

Longtime follow-up on exercise capacity and quality of life in people with Cystic Fibrosis receiving Elexacaftor, Tezacaftor and Ivacaftor – a Copenhagen cohorte
Lue Katrine Drasbæk Philipsen (Copenhagen, Denmark)

Effects of core stabilization exercises on respiratory muscle strength in children with cystic fibrosis
Kübra Kılıç (Ankara, Turkey), Naciye Vardar-Yağlı, Deniz Dogru, Melda Sağlam, Ebru Calık-Kutukcu, Nagehan Emiralioglu, Ebru Yalçın, Ügur Özçelik, Nural Kiper, Deniz Inal-Ince

Inspiratory muscle training for dyspnea management in people with unilateral diaphragm dysfunction
Michele Schaefter (Leuven, Belgium), Zafeiris Louvaris, Antenor Rodrigues, Diego Poddighe, Ghislaine Gayan-Ramirez, Tin Gojevic, Linde Geerts, Elise Heyndrickx, Marine Van Hollebeke, Luc Janssens, Rik Gosselink, Dries Testelmans, Daniel Langer

Comparison of respiratory muscle activations in different dyspnea reduction positions in individuals with COPD Ceyhun TOPCUOĞLU (ANKARA, Turkey), Eylem Tütün Yümi̇n, Melda Sağlık, Tamer Çankaya, Suat Konuk, Emine Özarslan, Merve Başol Göksülük

Exertional Desaturation During the 6-Minute Walking Test Versus Daily Life in People with Fibrotic Interstitial Lung Disease
Mariana Hoffman (Melbourne (VIC), Australia), Nick Wong, Angela T. Burge, Anne E. Holland

Heart rate and oxygen consumption post-exercise recovery kinetics before and after eight weeks of resistance training in people with COPD versus matched controls
Andre Nyberg (Umeå, Sweden), Joren Buekers, Jana De Brandt, Lori Desroches, Didier Saey, Mickael Martin, Francois Maltais

Effects of pulmonary rehabilitation during acute exacerbations of COPD
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Chris Burtin, Antônio Pedro Gonçalves, Cíntia Dias, Mareike Lehmann, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steinchen, R. Christoph Jentzsch, Christoph Mayr, Yuexin Chen, Niklas Lang, Ahmed Agami, Ilias Angelidis, Fabian Theis, Herbert Schiller

Paediatric MI-E therapy; three treatment strategies’ impact on comfort and cough flows
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Cathrine Brunborg, Ingvild Bruun Mikalsen, Mareike Lehmann, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steinchen, R. Christoph Jentzsch, Christoph Mayr, Yuexin Chen, Niklas Lang, Ahmed Agami, Ilias Angelidis, Shuhong Zhou, Melanie Königshoff, Fabian Theis, Herbert Schiller

Discussion and Q&A

Yellow 1+2+3  Session   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

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 Toso, Markus Meyer, Stephen Toovey, Luigi Manenti, Roberto Iacone, Frauke Christ, Bart Vanaudenaerde, Marianne Carlon, Wim Wuyts

Spatiotemporal analysis of inflammaging and senescence programs in lung fibrosis using time-resolved single-cell transcriptomics and multiplexed immunofluorescence
(, ), Mareike Lehmann, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steinchen, R. Christoph Jentzsch, Christoph Mayr, Yuexin Chen, Niklas Lang, Ahmed Agami, Ilias Angelidis, Shuhong Zhou, Melanie Königshoff, Fabian Theis, Herbert Schiller

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
Yuexin Chen (München, Germany), Janine Gote-Schniering, Michaela Müller, Pascal Albanese, Andris Jankevics, R. Christoph Jentzsch, Aleksandra Tata, Meshal Ansari, Laurens De Sadeleer, Lin Yang, Lukas Heumos, Ahmed Agami, Shuhong Zhou, Christoph H. Mayr, Rudolf Hatz, Jürgen Behr, Anne Hilgendorff, Ali Onder Yildirim, 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 Denney, Joshua Bull, Emmanouela Repapi, Martin Sergeant, Chaitanya Vuppussetty, 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 Barbosa, Vitoria C De Queiroz, Nathalia M Pinheiro-Menegasso, Beatriz M Fujihara, José Ivo A Beserra, Ana Cláudia Custódio, Iolanda De Fátima Lc Tibério, Rodrigo P Ureshino, Rafael H Lambertucci, Ayman K Hamouda, Roberta Ss Yamaguchi, Alessandra M Ribeiro, Carla M Prado

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 Brocchiero (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 Falcons (Malmö, Sweden), Malin Khant, Barbora Michalíková, Ulf Johansson, Linda Elowsson, Karina Thånell, Gunilla Westergren-Thorsson

Discussion and Q&A

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

Oral presentation: Novel treatment options for pulmonary fibrosis

Disease(s) : Interstitial lung diseases  Sleep and breathing disorders
Method(s) : General respiratory patient care  Cell and molecular biology  Physiology
Chairs : Julien Guiot (Liège, Belgium), Elisabetta Renzoni (London, United Kingdom)

Late Breaking Abstract - A KIF15 missense variant is associated with a distinct prognostic clinical phenotype in idiopathic pulmonary fibrosis
Mari Ainola (Helsinki, Finland), Maria Hollmén, Atte Laaka, Juulia Partanen, Jukka Koskela, Eva Sutinen, Riitta Kaarteenaho, Marjukka Myllärniemi

Late Breaking Abstract - Efficacy and safety of DANAZOL for pulmonary fibrosis associated with telomere related gene mutation

A Novel Interleukin-11 Receptor Antibody, LASN01 Is Well Tolerated and Demonstrates Target Engagement in Phase 1
Puneet Arora (Redwood City, United States), Jason Lickliter, Barbara Richardson, James Swaney, Toni Jun, Deborah Harris, Jeffrey Hartung, Matias Portela, David King

Nebulised pirfenidone in idiopathic pulmonary fibrosis (IPF): first look at FVC data
Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deepthi Nair, Courtney Thompson, Felix Woodhead

Post hoc pooled analyses of open-label and randomized controlled trials of senolytics dasatinib and quercetin in Idiopathic Pulmonary Fibrosis
Dean Kellogg (San Antonio, United States), Anoop Nambiar, Jaime Justice, Martin Goros, Jonathan Gelfond, Rodolfo Pascual, Shahrukh Hashmi, Michal Masternak, Larissa Prata, Nathan Lebrasseur, Andrew Limper, Steven Kritchevsky, Nicholas Musi, Tamar Tchkonia, James Kirkland

Effect of BI 101550, 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
Brown 1+2
Session 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

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
Ianthe Piscar (Maasstricht, 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
Hollan Richardson (Dundee, United Kingdom), Holly R Keir, Clare Clarke, Daniela Alferes De Lima, Abirami Veluchamy, Petra Rauchhaus, Thomas Pemberton, Megan Crichton, Jennifer Pollock, Simon Finch, Alison J Dicker, Sirhah Chaudhuri, 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, Jorgen Vestbo, Jadwiga A Wedzicha, Dave Singh

Blood eosinophil count (BEC) measured before starting inhaled corticosteroids (ICS) is better associated with treatment response to ICS in COPD.
Alexander Mathioudakis (Stockport, United Kingdom), Sebastian Bate, Pradeesh Sivapalan, Jens-Ulrik Jensen, Dave Singh, Jorgen Vestbo

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
Imran 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

Discussion and Q&A

Brown 3  Session 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
Chairs: Jouke T. Annema (Amsterdam, Netherlands), Michela Bezzi (Brescia, Italy)

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
Konstantina Kontogianni (Heidelberg, Germany), Susanne Dittrich, Judith Brock, Franziska Trudzinski, Claus Peter Heussel, Ralf Eberhardt, Felix J Herth

Bronchoscopic Thermal Vapor Ablation (BTVA) in patients with severe upper lobe predominant emphysema: 36 months follow-up results from a prospective registry
Konstantina Kontogianni (Heidelberg, Germany), Arschang Valipour, Stephan Eisenmann, Joachim H. Ficker, Daniel P. Franzen, Wolfgang Gesierich, Christian Grah, Martin Hetzel, Peter Hammerl, Felix J. Herth, Kaid Darwiche

Bronchial Rheoplasty for Chronic Bronchitis: 6-Month Results from the European Registry Study
Judith Brock (Heidelberg, Germany), Felix Herth, Kaid Darwiche, Ralf-Harto Hübner, Dirk Skowasch, Björn Schwick, Wolfgang Gesierich, Christian Schumann, Arschang Valipour

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, Franz Stanzel, Angelique Holland, Christian Grah, Wolfgang Gesierich, Andreas Gebhardt, Joachim Ficker, Stephan Egeling, 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, Zhu-Quan Su, En-Guo Chen, Di-Fei Chen, Feng Wang, Xiao-Ping Wang, Guang-Nan Liu, Xiao-Ju Zhang, Feng-Ming Luo, Nan Zhang, Hong-Wu Wang, Long-Yu Jin, Fa Long, Chun-Fang Liu, Shi-Man Wu, Qing Geng, Xiang Wang, Chun-Li Tang, Felix Herth

Diagnostic Yield of Shape Sensing Robotically-Assisted Bronchoscopy for Pulmonary Nodules Less than 2cm Pre and Post-3D Fluoroscopy
Alejandra Yu Lee-Mateus (Jacksonville, United States), David Abia-Trujillo, Alanna Barrios-Ruiz, Fabiana Diaz-Churion, Neal M. Patel, Britney N. Hazelett, Ryan M. Chadha, Sebastian Fernandez-Bussy

Discussion and Q&A

12:15-13:15
INDUSTRY LUNCHTIME SYMPOSIUM  SEE PAGE 1
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

Chairs: Heleen Demeyer (Leuven, Belgium), Chair to be confirmed

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 Elneime, Paul L Groenhaff, William D-C Man, Matthew Richardson, Sally J Singh, Michael Steiner, Louise V Wain, Miles D Witham, Janet Lord, Neil J Greening

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 Mafot, Ainaldo Lopes

Activity limitations and healthcare use in people with long COVID-19
Diana C Sanchez-Ramirez (Winnipeg, Canada), Adriana Angarita-Fonseca, Vicente Andres Benavides Cordoba, Santiago Larrateguy, Santos Chero, Bricia Hernandez Lopez, Rafael Salazar, Mauricio Morales Satan, Rodrigo Torres

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, Paolo Mendes, Luci eni De Oliveira Conterno, Mariângela Ribeiro Resende, Lígia Roceto Ratti, Mônica Corso Pereira

Quadriceps weakness pre- and post-COVID-19: associations with exercise capacity and quality of life
George Mills (Leicester, United Kingdom), Linzy Houchen-Wolloff, Sally Singh, Samuel Briggs-Price, Enya Daynes

The feasibility, safety, and repeatability, of the incremental shuttlewalk 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

The prevention of exertional desaturation 5 months post-hospital discharge for COVID-19
Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group

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

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

Pulmonary rehabilitation (PR) and movement behaviors: How are we measuring up?
Mark Orme (Leicester, United Kingdom), James Manfield, Yousuf Chaudhry, Sally J Singh, Tom Ward, Maxine E Whelan

Exploring the characteristics of people with long COVID-19 and their associated healthcare use in Latin America
Diana C Sanchez-Ramirez (Winnipeg, Canada), Adriana Angarita-Fonseca, Vicente Andres Benavides Cordoba, Santiago Larrateguy, Santos Chero, Bricia Hernandez Lopez, Rafael Salazar, Mauricio Morales Satan, Rodrigo Torres

The prevalence of exertional desaturation 5 months post-hospital discharge for COVID-19
Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group

Smartphone application-based rehabilitation in patients with chronic respiratory and cardiovascular diseases
Chiwook Chung (Seoul, Republic of Korea), Ah-Ram Kim, Il-Young Jang, Min-Woo Jo, Seongho Lee, Dongbum Kim, Hee Kwon, Do-Yoon Kang, Sei Won Lee

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
Monitoring of Long COVID symptoms using Digitalised C19-YRS in patients attending LC Rehabilitation Clinic in Manchester, UK
Hsu Myat Noe (Manchester, United Kingdom), Kay Richardson, Harmeet Momi, Christopher Dalton, Clare Gibbons, David Lamb, Sarah Clarke, Sheila Ramjug, Nawar Bakerly

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 Taalibekova, Aigul Ozonova, Nurdin Shakiev, Šymyk Azyžbekov, Azat Bolotbek U., Amy Barradell, Dominic Malcolm, Talant Sooronbaev, Sally Singh

Home-based pulmonary rehabilitation in ILD patients- all is not gold
Rishabh Kochar (Bikaner (Rajasthan), India), Naveen Dutt, Nishant Chauhan, Ravi Gaur, Mukesh Swami

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
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
Chairs: Reinoud Gosens (Groningen, Netherlands), Philip Hansbro (Sydney, Australia)

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

Lung stiffness affects the response to methacholine in two strains of mice
Andrés Rojas-Ruiz (Quebec, Canada), Magali Boucher, Percival Graham, Liah Fereydoon zad, Ynuk Bossé

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

Human Upper Respiratory Tract Microbiome and Epithelium Interactions
Pooja Narang (Sydney, Australia), Mehra Haghi, Catherine Burke, Brian Oliver

CYP2R1 gene polymorphisms (rs10741657) in Japanese patients with COPD and bronchial asthma.
Kazuhiro Tada (Koshigaya, Saitama, Japan), Kenya Koyama, Akemi Koyama, Shyuzo Abe, Tomoki Hasegawa, Junya Sato, Asutaka Ozaki, Kozo Sato, Hajime Arifuku, Hiroyoshi Watanabe, Hideyuki Satoh, Hirokuni Hirata, Yasutsu gu Fukushima

CYP2R1 gene polymorphisms (rs12794714) in Japanese patients with COPD and bronchial asthma.
Tomomi Takahashi (Koshigaya, Saitama, Japan), Kenya Koyama, Akemi Koyama, Shyuzo Abe, Hayase Azuma, Yukari Ito, Takayuki Kobayashi, Naotatsu Otsuji, Kei Sugitate, Hiroyoshi Watanabe, Hideyuki Satoh, Takayoshi Owada, Yasutsugu Fukushima

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

Extracellular vesicles from PBDE-47 treated M(LPS) THP-1 macrophages modulate gene expression in ALI culture of airway epithelium.
Mirella Profita (Palermo (PA), Italy), Giusy Daniela Albano, Valeria Longo, Angela Marina Montalbano, Noemi Alongi, Paolo Colombo

The role of the non-coding RNA in COPD
Jinkyeong Park (Seoul, Republic of Korea), Minseok Seo, Woo Jin Kim, Ji Ye Jung, Cheon Woong Choi

Computational fluid dynamics analysis of small airway deformation in COPD
Assessment of dyspnoea, respiratory symptoms and pulmonary function in patients with rare heterozygous alpha 1 antitrypsin mutations
Sara Spinelli (Napoli, Italy), Roberto Rega, Lidia Atripaldi, Giuseppe Fiorentino, Anna Annunziata

A survey of patient engagement in primary ciliary dyskinesia
Connie Webster (Leeds, United Kingdom), Emma Farrell, Niccola Burke, Giulia Spoletini, Daniel Peckham

Fractional dynamics deep learning approach for diagnosing COPD stages
Stefan Mihaicuta (Timisoara (Timis), Romania), Chenzhong Yin, Mihai Udrescu, Gaurav Gupta, Mingxi Cheng, Lucretia Udrescu, David M. Mannino, Andrei Lihu, Hantang Zhang, Paul Bogdan

Metabolic syndrome and lung function – pilot study LungMetS
Andreea Mihai (Craiova, Romania), Cristina Calarasu, Laurentiu Buican, Marius Matei, Costin-Teodor Streba, Victor Ionel Grecu, Mihaela Ionela Vladu

COPD as a trigger for the development of thromboses in patients with defects in the genes predisposing to thrombosis
Elnorahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko

Spirometry network: a program for the future
Mariana Cardoso Tavares (Guada, Portugal), Filipa Fernandes, Élin Almeida, Filipa Jesus, Fernando Silva, Joana Ribeiro, Sara Braga, Luís Ferreira

The role of DRD2 ubiquitination in macrophage polarization
Tao Fan (Chengdu (Sichuan), China), Yan Lv

Alpha 1 antitrypsin deficiency in severe asthma patients
Martina Zappa (Tradate, Italy), Patrizia Pignatti, Sarah Grossi, Francesco Ardesi, Rosella Centis, Elisabetta Zampogna, Laura Saderi, Giovanni Sotgiu, Antonio Spanevello, Dina Visca

Gene mutations and clinical manifestations of alpha-1 antitrypsin deficiency in Czech patients – a pilot study
Eva Volakova (Olomoue 9, Czech Republic), Jana Petrkova, Lenka Kocourkova, Jaromir Zatloukal, Petr Jakubec, Martin Petrek

Late Breaking Abstract - Changes in surfactant lipid-composition in allergic asthma in- and outside birch-pollen season
Anna-Carin Olin (Göteborg, Sweden), Susanna Lohman Haga, Per Larsson, Spela Kokeļ, Linus Schiöler, Per Larson, Spela Kokeļ, Linus Schiöler

PS-2 in poster area Session 12:30 - 14:00
Poster session: Digital health innovations in respiratory healthcare

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

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

Chairs : Konstantinos Kostikas (Ioannina, Greece)

AirPredict - A mobile app for monitoring personal exposure to Particulate Matter and respiratory outcomes in asthma patients
Michele Atzeni (Padova, Italy), Luca Cossu, Caterina Grisi, Umberto Semenzato, Mariaenrica Tinè, Simonetta Baraldo, Giacomo Cappon, Martina Vetoretti

Causes of failed smoking cessation attempts among active smokers.
Fatih Mounoua (AGADIR, Morocco), Abdellkrim 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-Bei Ho, Peter Saunders, Rachael 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

Ballistocardiographic pad for detection of heart rate in respiratory diseases.
Vratislav Sedláček (Hradec Králové 9, Czech Republic), Filip Studnička, Radovan Sedláček

Literature-mining in research of Post-Acute Sequelae of Covid-19
Kristina Piontkovskaya (Stockholm, Sweden), Li Chuan-Xing, Yulian Luo, Michael Runold, Åsa Maria Wheelock

Development of the iRECHARGE web application (app) for Pulmonary Rehabilitation (PR) in India using Design Thinking Process (DTP)
Shruti Sahasrabudhe (Pune (Maharashtra), India), Rashmi Padhye, Mark W Orme, Dipali Dhamdhere, Suryakant Borade, Meenakshi Bhakare, Nagesh Dhadge, Mahavir Modi, Zahira Ahmed, Andy Barton, Sundeep Salvi, Sally J Singh

A wearable system for personal air pollution exposure: a walk-about in Milan
Sara Bernasconi (Varese, Italy), Alessandra Angelucci, Andrea Rossi, Andrea Aliverti

The use of digital web-based video training for correct inhalation technique during the COVID-19 pandemic
Maximilian Wollsching-Strobel (Köln, Germany), Uta Butt, Daniel Majorski, Tim Mathes, Friederike Magnet, Doreen Kroppen, Melanie Berger, Sarah Schwarz, Wolfram Windsch

Transforming Irish health care delivery through digital health technology with a global orientation – through the perspective lens of the service user
Tara Byrne (Ballinasloe (County Longford), Ireland), Niall Murray, Mary Mc Donnell-Naughton, Neil Rowan

APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE: ANALYSIS OF ANDROID MARKETPLACE
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yurii Mostovoy

QUALITY OF ANDROID APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yurii Mostovoy

HHT Virtual Imaging Case Conferences - A New Way Forward for Rare Disease Management
Dilini Vethanayagaam (Edmonton (AB), Canada), Richard Owen, Hugo Bertozzi, Darshan Bakshi, Rohan Parab, Ani Mirakhur, Oliver Halliwell, Charlene Fell

PS-19 in poster area

Poster session: Pulmonary fibrosis: clinical and trial experiences

Session 12:30 - 14:00

Disease(s): Interstitial lung diseases

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

Chairs: Claudia Valenzuela (Madrid, Spain), Katarzyna B. Lewandowska (Warszawa, Poland)

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

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
Adverse Effects of Nintedanib – A Portent of Gender Inequality?
Dominic Sykes (Hull, United Kingdom), Ellis Day, Kayinaat Ibrar, Amanda Bell, Mark Major, Alyn H Morice, Simon P Hart

Real-World Safety and Effectiveness of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis
Arata Azuma (Kawasaki, Japan), Takashi Ogura, Yoshikazu Inoue, Yasuhiko Kondoh, Sakae Homma, Katsumi Tanaka, Kaori Ochiai, Kenya Murashii, Yukihiko Sugiyama, Toshitoho Nukiwa

Nocebo effect of nintedanib on gastrointestinal (GI) adverse events (AEs) in patients with interstitial lung diseases (ILDs)
Oliver Distler (Zurich, Switzerland), Kristin B Highland, Arata Azuma, Tejaswini Kulkarni, Wim A Wuyts, Corinna Miede, Margarida Alves, Petros Sfikakis

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

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

Antifibrotic treatment in patients with Idiopathic pulmonary fibrosis (IPF): Real life data from a Swedish registry
Lisa Carlson (Stockholm, Sweden), Dimitrios Kalafatis, Ida Peonen, Jesper Magnusson, Magnus Skold

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

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

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

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

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

Five-year follow up analysis of Japanese ILD registry
Kazuya Tsubouchi (Fukuoka, Japan), Naoki Hamada, Shoji Tokunaga, Toru Tsuda, Shohei Takata, Hiroshi Ishii, Yasuhiko Kitasato, Tomezaki Hoshino, Yosuke Sasahara, Kazuhiro Yatera, Masayuki Kawasaki, Masaki Fujita, Makoto Yoshida, Takashige Maeyama, Taishi Harada, Hirosi 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, Yochei 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 Confolonieri, Metka Kodric, Rossella Cifaldi, Mariangela Barbieri, Selene Lerda, Marco Confolonieri, 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 Sciacca, Stefano Palmucci, Gianluca Sambataro, Carlo Vancheri

Autoantibody positivity (AAb+) in idiopathic pulmonary fibrosis (IPF): outcomes from the Pulmonary Fibrosis Foundation Patient Registry (PFF-PR)
Chad Newton (Dallas, United States), Tejaswini Kulkarni, Mary Beth Scholand, Kevin Flaherty, Zhongze Li, Sachin Gupta, Elana. J Bernstein

PS-16 in poster area
Session 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

RSV as a Cause of Exacerbations of COPD

Disruption in typical patterns of seasonality of respiratory viral infections (RVIs)
Martha Purcell (Southampton, United Kingdom), Tommaso Morelli, Pedro Rodrigues, Sandy Aitken, Charles Roberts, Jacqueline Nuttall, Anna Freeman, Tristan Clark, Tom Wilkinson

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 Johnson

LSC - 2023 - Iron metabolism determines the outcome of influenza A virus infection
Jemma Mayall, Amber Pillar, Katie Daly, Alexandra Brown, Ama-Tawiah Essifile, Henry Gomez, Richard Kim, Kristy Nichol, Chantal Donovan, Greg Anderson, David Frazer, Elizabeth Milward, Philip Hansbro, David Reid, Alan Hsu, Peter Wark, 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 Bruyndonckx, 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 Tamm, 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
Scott White (Collegeville, United States), Francesca Mercuri, Nicole Kruger, Grant Mclachlan, Stephan Mynhardt, Hayley Mcquillen, Bruce Miller, Ruth Tal-Singer, 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 Klimek, Ernest Kuchar, Ingrid Stelzmüller, Andrzej M Fal, André Gessner

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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 Schwengmann, Marzia Bonsignore, Irit Nachtigall

Predictive factors for a good pulmonary penetration of antibiotics: AntiBiotics dosage in BronchoAlveolar Lavage
Julia Delomez (Neuville-aux, France), Alice Henry, Damien Basille, Vincent Jouineaux, 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 Hashioka, 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 Ermakova, 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

Posters

**Session 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

**Chairs:** Ilona Tietzova (Prague, Czech Republic)

**Occupational lung cancer: the medico-legal aspect**
Zeineb ATHIMNI (Sousse, Tunisia), Marwa Bouhoula, Sana Bhiri, Asma Aloui, 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 (Dammam, Saudi Arabia), Bader S. Almqqati, Turki G. Alharbi, Abdulaheem A. Almuntashiri

**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**
Danai Bisirtzoglou (Athens, Greece), Georgia Hardavella, Eleni Karetsi, Kelly Miziou, Gerasimos Metaxas, Christos Raptis, Dina Broupi, Ioannis Gkiozos

**Real-World treatment outcomes for advanced NSCLC in Greece**
Eleni Kokkotou (N.Faliro (Piraeus), Greece), Lampnri Stournara, Maria Mani, Ioannis Gkiozos, Sofia Tsagouli, Nikolaos Syrigos, Thomas Burke, Andreas Desimiotis, Ioannis Dimitriadis, Andriani Charpidou

**REAL-WORLD DATA ON LUNG CANCER PATIENTS CHARACTERISTICS IN NORTHERN SERBIAN PROVINCE OF VOJvodina**
Darjiro Bokan (Sremska Kamenica, Republic of Serbia), Bojan Zaric, Tomi Kovacevic, Goran Stojanovic, Jelena Djekic Malbasa, Ana Milenkovic

**Epidemiological and histopathological features of lung cancer in Tunisia**
Moez Hamdani (Djerba, Tunisia), Marwa Walha, Sana Hadouri, Kamel Bel Haj Ali, Abdelmajid Khabir

**Clinical characteristics and out comes of lung cancer patients in a tunisian center**
Amani Kacem (Sousse, Tunisia), 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 Trojan (Warszawa, Poland), Magdalena Knetki-Wróblewska, Joanna Domagała-Kulawik
Characteristics of lung cancer in elderly patients.
Rim Khemakhem (Sfax, Tunisia), Mounira Kallel, Nessrine Kallel, Rahma Gargouri, Ilhem Yangui, Nedia Moussa, Walid Feki, Najla Bahouil, Samy Kamoun

COPD and lung cancer: Is there a link?
Houda Rouis (Ariana, Tunisia), Chirine Moussa, Mahdi Abdennadher, Soumaya Debiche, Nourchene Khalifallah, Amel Khatteb, Ibthiel Khouraja, Ines Zendah, Sonia Mâlaï
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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

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, Hans, 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 Belakhkhl, L Abouesselham L, H Hachri H, I El Menchay, Samira El Fakir, Mohammed Berraho, Nadia Benghekroun, Nabil Tachfouti

Employment status at time of lung cancer diagnosis: A nationwide study 1994-2018
Morten Borg (Ry, Denmark), Ditte Fredensborg Søltoft, 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

PS-12 in poster area

Session 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

Chairs: Erol Gaillard (Leicester (Leicestershire), United Kingdom)

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

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 Pompilio, Giorgio Piacentini

Bronchodilator response cut-off -point of the FEV0.75 s in asthmatic Tunisian children.
Molk MAALEJ (Sfax, Tunisia), Rim Kamoun, Emna Eleuch, Hana Trabelsi, Leila Triki, Hela Zouari, Kaouthar Masmoudi

Methodological approach of the use of electronic nose in paediatrics: A factibility study
Ana Diez 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

Treatable traits in asthmatic children
Magdalena Vocos (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primerose, Marcela Roque, Veronica Giubergia, Veronica Aguerre, Belen Lucero, Gabriela Pelaez, Juan Manuel Figueroa
**Bronchodilator response phenotype in children with moderate to severe asthma exhibits elevated T2 and T1 serum cytokines**

Mahmoud Ismael Abdel-Aziz (Amsterdam, Netherlands), Nariman K. A. Metwally, Susanne J. H. Vijverberg, Anne H. Neerinxc, 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 Corecucera-Elosegui, Javier Korta-Muruza, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D. Kraneveld, René Lutter, Anke H. Maitland-Van Der Zee

**Children can be safely discharged on as required salbutamol after episodes of acute wheeze.**

Steph Harper (Southampton, United Kingdom), David James, Catherine Crocker, Alison Mcevoy, Amanda Harris, Gary Connett

**Preliminary observations from an asthma intervention package to improve outcomes for children and young people in inner city Birmingham, UK**

Titus Ninan (Solihull (West Midlands), United Kingdom), Teresa Evans, Vipran Vijaya, Susan Frost, Mairead Hitching, Satish Rao

**Allergic rhinitis and atopic dermatitis are associated with a decreased risk of asthma-related hospital visits in moderate to severe pediatric asthma: results of the SysPharmPediA study**

Amir Hossein Alizadeh Bahmani (Amsterdam, Netherlands), Susanne J.H. Vijverberg, Simone Hashimoto, Christine Wolff, Catarina Almqvist, Lizan D. Bloemsma, Susanne Brandstetter, Paula Corecucera-Elosegui, Mario Gorenjak, Susanne Harner, Anna M. Hedman, Michael Kabesch, Javier Korta-Muruza, Aletta D. Kraneveld, Anne H. Neerinxc, Maria Pino-Yanes, Uroš Potočnik, Shahriyar Shahbazi Khamas, Olaia Sardón-Prado, Mahmoud I. Abdel-Aziz, Anke H. Maitland-Van Der Zee

**Reducing asthma exacerbations after the start of the school year: empowering children and families**

Lynsey Brown (Liverpool, United Kingdom), Vicotria Worrall, Karl Holden, Claire Hepworth, Helen Harper, Lucy Gait, Laura Marsh, Andrew Lilley, Ian Sinhã, Christopher Grime

**Prospective follow-up of asthma and health related quality of life into late adolescence after bronchiolitis in infancy.**

Sonja Laitinen (Tampere, Finland), Eero Laukonen, Riikka Riikonen, Matti Korppi, Paula Heikkilä

**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, Sanilye 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, Rannieri Acuña Cordero, Paula Aguilera Otalvaro, Bethy Camargo, Ricardo Aristizabal Duque, Carlos Rodriguez Martinez

**Clinical control of asthma and lung inflammation may impair quality of sleep and life in children and adolescents**

Etiene Farah Teixeira De Carvalho (São Paulo (SP), Brazil), Évelim Gomes, Dirceu Costa

**NHS Wales National Initiative for Good Asthma Control: Patient-facing Apps for Parents, Children and Adults.**

Julian Forton (Penarth (South Glamorgan), United Kingdom), Daniel Rigler, Katie Pink, Chris Davies, Grace Moore, Laura Wallis, Simon Barry

**Effectiveness of written asthma action plan in improving asthma control in children**

senda derouiche (Tunisia, Tunisia), Sabrine Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

**How do we identify dysfunctional breathing (DB) in children and young people (CYP)- a UK delphi consensus.**

Ruth Stewart (Kirkcaldy, United Kingdom), Kenneth Macleod, Ann McMurray, Kirstin Unger

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**PS-5 in poster area**

**Session 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

**Chairs:** Hermelijn H. Smits (Leiden, Netherlands)
Multiplex protein quantification per cell type in bronchoalveolar lavage cytospin cells using NanoStrings GeoMx
Nicole van der Burg (Lund, Sweden), Martin Ryde, Jaro Ankerst, Leif Bjerner, Ellen Tufvesson

Metabolomic Profiling in a Mouse Model of Menopause-Associated Asthma.
Julie Ledford (Tucson, United States), William Pederson, Laurie Ellerman, Yan Jin, Haiwei Gu

Rac GTPase dependent cell signaling drives eosinophilic function in severe asthma.
Dorian Hassoun (Nantes, France), Hugo Bergerue, Morgane Rousselle, Marie-Aude Cheminant, Carole Brosseau, Nicolas Jouand, Christine Sagan, Grégoire Bouchaud, Sophie Brouard, François-Xavier Blanc, Gervaise Loirand, Vincent Sauzeau

Different subtypes of eosinophils between asthma and COPD in bronchial tissue.
Alejandra Sánchez-Santos (Las Palmas de Gran Canaria, Spain), Carlos Cabrera-López, Angelina Lemes-Castellano, Sara Cazorla-Rivero, Enrique González-Dávila, Bartolomé Bartolomé, Ciro Casanova-Macario

LSC - 2023 - Eosinophil subtypes affect airway smooth muscle cells migration and ECM-related proliferation in asthma
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacionyte, Ieva Janulaityte, Greta Seskaite, Kestutis Malakauskas

WISP-1 stimulates the accumulation of nuclear factor erythroid-2 related factor 2 (NRF2) into the nucleus of airway smooth muscle cells from patients with asthma and COPD
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Eleni Papakonstantinou, Daiana Stolz

Collagen turnover in airway smooth muscle cells is mediated by WISP-1 differently in asthma and in COPD
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Charikleia Ntenti, Eleni Papakonstantinou, Daiana Stolz

WISP-1 promotes proliferation and migration of airway smooth muscle cells from patients with asthma and COPD
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Panagiota Moraiti, Eleni Papakonstantinou, Daiana Stolz

Role of nesprin-1 in STAT3 nuclear import of human airway smooth muscle cells
Dale Tang (Albany, United States), Ruping Wang, Guoning Liao

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

II-33 drives airway remodeling by promoting mixed inflammation and pro-fibrotic pathways
Seblewongel Asrat (Tarrytown, United States), Subhashini Srivatsan, Brianna Buonaguro, Kirsten Nagashima, George Scott, Kaitlyn Gayvert, Wei Keat Lim, Dylan Birchard, Li-Hong Ben, Audrey Floc’H, Andrew Murphy, Matthew Sleeman, Jamie Orenge

Neuroimmune interactions and neuroplasticity in fatal asthma
Guilherme Dragunas (Munich, Germany), Natalia De Souza Xavier Costa, Reinoud Gosens, Carolina Demarchi Munhoz, Thais Mauad

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

Sputum protein measures in severe asthma as a theragnostic tool
Clair Barber (Southampton (Hampshire), United Kingdom), Adnan Azim, Laurie Lau, Jon Ward, Scott P Elliott, Thomas Brown, Thomas Jones, Karl J Staples, Tom M A Wilkinson, Anoop Chauhan, Peter H Howarth

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

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

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 Hüttemann, Peter König

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
Effects of dexamethasone on human stem cell-derived peripheral cholinergic neurons
Guilherme Dragunas (Munich, Germany), Pien Goldsteen, Carli Koster, Marina Trombetta Lima, Sophie T Bos, Carolina Demarchi Munhoz, Reinoud Gosens

The IL23-Th17 axis in neutrophilic airway inflammation
Barsha Baisakh 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 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
Chairs: Marijke Dieltjens (Edegem (Antwerp), Belgium), Richard Staats (Lisbon, Portugal)

Prevalence and characteristics of sleep apnea syndrome in heart failure patients
Syriène Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawsen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakharma, Mohamed Ridha Charfi

Sleep apnea screening questionnaires in heart failure patients
Syriène Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawsen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakharma, Mohamed Ridha Charfi

Predictive factors of moderate to severe sleep apnea syndrome in heart failure
Syriène Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawsen Antit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakharma, 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 apnea and ischemic ECG changes in Mauritius
Ulfr Nilsson (Umeå, Sweden), Anders Blomberg, Paul Zimmet, Jaakko Tuomilehto, Dianna Magliano, George Alberti, Sudhir Kowlessur, Jonathan Shaw, Abdonas Tamosiunas, Stefan Söderberg

Trajectories of daytime sleepiness post-ischemic stroke and TIA: a propensity score matching study
Sébastien Baillieul (Grenoble CEDEX 9, France), Renaud Tamisier, Bastien Gevaudan, Sarah Alexandre, Olivier Detante, Yves Daувильер, 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 Ypeez, Marina Inglés Azorin, Jose Gomez Olivas, Amina Bekki, Sergio Mompean Rodriguez, Alberto Garcia Ortega, Miguel Angel Martinez Garcia

Predictors of nocturnal hypoxic burden in patients with severe coronary artery disease
Michael Arzt (Regensburg, Germany), Verka Blagoeva, Maximilian Trum, Philipp Hegner, Bernhard Floerchinger, Daniele Camboni, Marcus Creutzenberg, Florian Zeman, Christof Schmid, Lars S Maier, Maria Tafelmaier

Time spent with saturation below 80% versus 90% as predictive values for cardiovascular risk in patients with obstructive sleep apnoea
Stefan Mihaicuta (Timisoara (Timis), Romania), Mariela Romina Birza, Stefan Frent, Alina Mirela Popa, Loredana Gligor, Martina Meszaros, Andras Bikov

Pharmacotherapeutic profile of sleep apnea patients
Stefan Mihaicuta (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 Csomaj, Maria Mascarenos Ponte, John Blaikley, Mahmoud Barakat, Andras Bikov
Impact of a sleep intervention program on anxiety and depression in patients with Chronic Musculoskeletal Pain
Sofía Romero Peralta (Madrid, Spain), Pilar Resano Barrio, Gloria Hernando Benito, Esther Solano Pérez, Carlota Coso, Laura Silgado Martínez, Juan Fernando Masa, Sonia López Monzoni, Leticia Álvarez Balado, María Esther Viejo Ayuso, Rosa Mediano San Andrés, María Castillo García, Olga Mediano

Effectiveness of pulmonary rehabilitation and oropharyngeal exercises in patients with moderate obstructive sleep apnea syndrome (OSAS)
Iana Andreieva (Zaporizhia, Ukraine), Oleksander Tokarenko, Dmitro Myrmy

Efficacy of positional therapy in patients with positional obstructive sleep apnea: a retrospective study to investigate predictive factors in successful adaptation
Federica Bonavoglia (Voghera, Italy), Giulia Pennacchini, Angela Bellofiore, Carlo Magnoni, Marco Mantero

Short-term effectiveness of positional obstructive sleep apnoea therapy (SOMNIBLE®): An observational study
Ana Reyes Pardessus Otero (Barcelona, Spain), Paula Pujal Montañà, Inés Podzamczer Valls, Judit Gutiérrez Anguita, Marta Blanco Bejar, Marta Gutiérrez Rouco, Ana Mª Fortuna Gutiérrez, Mercedes Mayos Pérez

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 OS and CPAP intolerance after 3 years of follow up
Sara González Castro (Tres Cantos (Madrid), Spain), Laura Pozuelo Sánchez, Ignacio Jara Alonso, Andrea Pérez Figuera, Alfonso Muriel García, Alberto Carreño Alejandre, María Parra Jarque, Lorena Delgado Vera-Pinto, Aldara García Sánchez, Irene Cano Pumarega, Eva Mañas Baena

An audit to increase the efficiency of mandibular advancement splint (MAS) referrals to a hospital orthodontic department.
Matthew Holder (London, United Kingdom), Emma Weston, Guanhong Li, Lucy Davenport-Jones, Safoora Keshtgar

Poster session: Paediatric viral and bacterial lung infections

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, Julié Kyvsgaard, Jenni Lehtimäki, Jakob Stokholm, Klaus Bønnelykke, 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 Tavendale, Colin Palmer, Somnath Mukhopadhyay, Katy Fidler

A prospective study of community-acquired lower respiratory tract infections in the first year of premature newborns
Asiah Kassim (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Akmar Mohamad, Shangari Kunaseelan, Yi Cheau Chua, Maria Kamal, Lai Cheng Hooi, Hui Ling Leong, Sin Toung Loh, Farah Inaz Syed Abdullah, Farizah Mohd Hairi, Hafizah Zainuddin, Siew Hong Neoh

Genotypic diversity and immune dysregulation in children with HRA(rhinovirus) infections
Adnan Zafar (Rawalpindi, Pakistan), Bandar Alosaimi, Asif Naeem

The airway epithelial respiratory illnesses and allergy (AERIAL) birth cohort: viral exposure data within the first year of life
David Hancock (Nedlands, Australia), Stephen Stick, Elizabeth Starcevich

Air pollutants exposure and risk of hospitalization due to RSV in Polish children
Artur Badyga (Warszawa, Poland), August Wrotek, Piotr Dąbrowiecki, Piotr Oskar Czechowski, Tomasz Owczarek, Teresa Jackowska

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Artur Badyga (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, Maria José Curras-Tuala, Sandra Viz-Lasheras, Ana Belen Crujeiras, Angel Díaz-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 Burrack, 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, Camini Jain, Manisha Ramphul, Francis Gilchrist, Benjamin Davies, Andrew Prayle

Evaluation of pulmonary function tests and predictors in necrotizing pneumonia

Monocyte-to-lymphocyte ratio and neutrophil-to-lymphocyte ratio as biomarkers for severity in hospitalized children with RSV bronchiolitis
Inbal Golan-Tripto (Beer sheva, Israel), Nitzan Burrack, Assaf Adar, Aviv Goldbart, Sarah Weissmann, Bracha Cohen, Itai Hazan, Amir Horev

Distinction Between Hemoptysis and Pseudohemoptysis; Cross-Sectional Retrospective Study
Yasemin Mocan Çağlar (Istanbul, Turkey), Gülay Bilgin, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi Tortop, Begüm Yörük, Özge Ulgen, Saniye Girir

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 Bitell, 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.
Lucia Ronco, Marco Denina, Lorenzo Appendini, Elisabetta Bignamini, Silvia Garazzino

Prospective evaluation of lung function in children with history of neonatal COVID-19 infection: preliminary data.
Stefano Nobile (Rome, Italy), Paola Catalano, Simonetta Costa, Maria Di Chiara, Benedetta De Santis, Gianluca Terrin, Roberto Chioma, Francesca Gallini, Giovanni Vento

Pulmonary evaluation in children with Long-COVID
Paola Di Filippo (Chieti (Ch), Italy), Francesco Sansone, Laura Sgrazzutti, Sabrina Di Pillo, Francesco Chiarelli, Marina Attanasi

Dipeptidyl peptidase-1 inhibition in bronchiectasis with eosinophilic endotype in the WILLOW trial
James D. Chalmers (Dundee (Angus), United Kingdom), Mark L Metersky, Ariel Teper, Carlos Fernandez, Sebastian Fucille, Melanie Lautero, Roald Van Der Laan, Andreas Maes, Michael R Loebinger

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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, Colleen Pawliuk, Jalal Tarabishi, Matthew Carwana, Roshan A. Ananda, Priyadharshini Ramakrishnan, Tala J Alhejazi, Alyssa Chen, Amin Sharifan, Mohamed M. Shawqi, Marie Wright, Nassr Nama

Late Breaking Abstract - Fibrinolytics use in children with pleural empyema
Carmen Cordelia Maria de Jong (Stettlen, Switzerland), Ilja E Heijting, Peter J F M Merkus, Jolt Roukema, Lara S Van Den Wijngaard, Milanthy S Pourier

PS-17 in poster area
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
Chairs : Pieter Goeminne (Bornem, Belgium), Holly R. Keir (Dundee (Angus), United Kingdom)
Safety, tolerability, pharmacokinetics (PK) and pharmacodynamics (PD) of HSK31858, a 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 Veer (Amsterdam, Netherlands), Johanna Margaretha De Koning Gans, Gert Jan Braunstahl, Angelina Pieters, Johanna Van Den Berg, Rogier Hoek, Lieke Kamphuis, Marleen Bakker, Alain Dubois, Joachim Aerts, Menno Van Der Eerden

Impact of hypertensive 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 Meropenem for prevention of Bronchiectasis Exacerbation

Itifkhar Nadeem (Lode, Cambridge, United Kingdom), Tejas Ingle, Masood Ur Rasool, Noor Mahdi, Syed Ata Ul Munam, Bobbak Rabie, Raaga Vijayabarthathy, Duncan Grady, Sumita Päi, 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 Martin-Gómez, Daniel Romero, Almudena Felipe, Clara Pons, Antonio Alvarez, Ianire Gallego, Eva Polverino

Retrospective review of treatment approaches for Pseudomonas aeruginosa infections in patients with Primary Ciliary Dyskinesia: Insights from a Danish cohort

Mathias G. Holgersen (Copenhagen, Denmark), Frederik T. Søndergaard, June K. Marthin, Helle K. Johansen, Kim G. Nielsen

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 Shteinberg, Wim Boersma, J. Stuart Elborn, Pieter C. Goeminne, James D. Chalmers, Stefano Aliberti

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

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

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

Related factors to non-invasive ventilation in patients with acute bronchiectasis exacerbation

Mariem Friha (Ariana, Tunisia), Ines Moussa, Hana Mrassi, Sarra Ben Sass, Sarra Trimech, Chrline Zaiar, Imen Sahnoun, Leila Douik Elgharbi

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

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 Shteinberg, Wim Boersma, Stuart Elborn, Pieter Goeminne, Stefano Aliberti, James Chalmers

Long-term High flow nasal cannula therapy in bronchiectasis

Francesca Simioni (Napoli (NA), Italy), Anna Annunziata, Pasquale Imitazione, Antonietta Coppola, Rosa Cauteruccio, Francesco De Simone, Giuseppe Fiorentino

Efficacy of inhaled tobramycin in adult patients with bronchiectasis and P. aeruginosa in sputum: a prospective observational study

Chrysavgi Kosti (Gerakas, Greece), Antonia Digalaki, Andreas Mattheaiou, Sofia Koukidou, Emmanouela Zervou, Akaterini- Ioanna Sakellaropoulos, Ioannis Roussis, Serafeim Chrysikos, Georgios Hillas, Katerina Dimakou
Study design of a Phase 2 rollover trial of the novel cathepsin C inhibitor BI 1291583 in patients with bronchiectasis
Michal Shteinberg (Haifa, Israel), Wiebke Sauter, Sanjay H Chotirmall, Pamela J Mcshane, Marcus Mall, Anne E O'Donnell, Peter Eickholz, Henrik Watz, Naoki Hasegawa, Anastasia Eleftheraki, Abhya Gupta, James D Chalmers

A single-centre audit of specialist Bronchiectasis care and outcomes at 12 months
Georgia Tooth (Cambridge, United Kingdom), Shauna Hanrahan, Victoria Monson, Dorothy Grogono

Fibrinogen and fractional exhaled nitric oxide as potential markers of lung functional impairment in clinically stable non-cystic fibrosis bronchiectasis
Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Pitsidianakis, Katerina M. Antoniou, Nikolaos Tzanakis

Fibrinogen and fractional exhaled nitric oxide as potential markers of lung functional impairment in clinically stable non-cystic fibrosis bronchiectasis
Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Pitsidianakis, Katerina M. Antoniou, Nikolaos Tzanakis

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 Garcia-Rio

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

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, Gunnilla Westergren-Thorsson, Ellen Tuveson, Anna-Karin Larsson-Callerfelt

Real-time breath volatilomics analysis by soft Ionisation Mass Spectrometry
Shahd Abuhelal (London, United Kingdom), Kenneth Robinson, Zoltan Takats, Salman Siddiqui

Optimisation of DNA extraction from nasal lining fluid to assess the nasal microbiome
Samuel Montgomery (Leederville (WA), Australia), Jose Caparrós-Martin

Predicting the efficiency of the treatment of comorbidity diabetes mellitus and multidrug-resistant tuberculosis depending on the polymorphism variation of glutathione-S-transferase genes
Ihor Semianiv (Chernivtsi, Ukraine), Liliia Todoriko, Marianna Semianiv, Mykola Garas

Hypoxia-induced metabolic response in obstructive sleep apnoea patients is influenced by sphingomyelin levels
Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veevälõ, Ragne Tamm, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Roman Pihlakas, Kalle Kilik, Ursel Soomets, Alan Altraja

Investigation into the Plasma Proteome Signature in Myalgic Eencephalomyelitis/Chronic Fatigue Syndrome (ME/CFS)
Johanna Squires (Worcester, United States), Sarra Al-Zayer, Peng Li, Wenzhong Xiao, David Systrom

Minimally invasive autopsies as a tool for lung molecular study
Sabrina Setembre Batah (Ribeirão Preto, Brazil), Alexandre Fabro

Metabolomics of blood plasma from critically ill patients with suspected ventilator-associated pneumonia
Waqar Ahmed (Manchester, United Kingdom), Adam Burke, Nigel Gotts, Pouline Van Oort, Jonathan Bannard-Smith, Ben Morton, Ingeborg Welters, Ronan Mcmullan, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler

Metabolomic analysis of exhaled breath can rule out ventilator-associated pneumonia (VAP) in critically ill patients
Waqar Ahmed (Manchester, United Kingdom), Iain White, Pouline 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

CFTR modulator therapy partially resolves inflammation in CF lung disease
Rosemary Maher (Liverpool, United Kingdom), Peter Barry, Edward Emmott, Andrew Jones, Lijing Lin, Paul McNamara, Jaclyn Smith, Robert Lord

Comparative analysis of macrolide antibiotics effects on bronchial epithelial cell differentiation in vitro
Arni Ashjarnarson (Reykjavik, Iceland), Fridrik Runar Gardarsson, Jon Petur Joellsson, Bryndis Valdimarsdottir, Ari Jon Arason, Snaevar Sigurdsson, Jennifer Kricker, Thorarinn Gudjonsson
BBS1 and BBS7 gene expression profile in mesothelial cells during hyperosmotic stress.
Rajesh Jagirdar (Larissa, Greece), Erasmia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsious, Chrissy Hatzoglou, Konstantinos Gourougouliannis, Sotiros Zarogiannis

miRNA identification in Particles in Exhaled Air (PExA) to study lung diseases
Martina Bonatti (Solna, Sweden), Monika Ezerskyte, Pia Lindberg, Åsa Maria Wheelock

Development and validation of in vitro human inhalation toxicity tests for volatile liquids, mists, and sprays
Jan Markus (Bratislava, Slovakia), Yulia Kaluzhny, George R. Jackson, Paul Kearney, Silvia Letasiova, Mitchell Klausner, Alex Armento

Late Breaking Abstract - Circulating ITGB6 levels are elevated in patients with IPF and reduced following lung transplant
( ), Erine Budi, Prerna Kotak, Susan Jacobs, Tushar Desai, Scott Turner

Inhaled cannabis product methods for in vitro toxicological assessment
Emily Wilson (Montreal, Canada), Maddison Arlen, Rui Lui, Ryan Pusiak, Percival Graham, David Eidelman, Cory Harris, Carolyn Baglole

Consensus clustering with missing labels (ccml): a consensus clustering tool for multi-omics integrative prediction in cohorts with unequal sample coverage
Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Hongyan Chen, C. Magnus Sköld, Meng Zhou

Impact of host DNA depletion in human upper respiratory microbiome investigations
Ekanayake Mudiyanelage Udani Anuradha Ekanayake (Hull, United Kingdom), Angela Oates, Simon Hart, Laura Sadosky

PS-20 in poster area
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
Chairs : Claudia Ravaglia (Forlì, Italy), Chair to be confirmed

Prediction of mortality in SSc-ILD depends on definition of ILD progression
Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelystskab, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkekjær, Cathrine Brunborg, Cosimo Bruni, Phuong Phuong Diep, Ruscandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carina Mihaï, Øyvind Molberg, Oliver Distler

Automatized quantification and progressive evaluation of SSc-ILD: a perspective from the PROFILE.net ERS Clinical Research Collaboration
Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Simon Van Eyndhoven, Jelle Praet, Dirk Smeets, Clio Ribbens, Béatrice André, Renaud Louis

Nutritional parameters in ILD: correlation with functional test and CT
Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Florencia Santtia, Ana Downey, Veronica Barcos, Gabriela Legarreta, Silvana Acuña, Alberto Case, Juan Enghelmayer, Ana Putruele

LUNG ULTRASONOGRAPHY HELPS RULE OUT INTERSTITIAL LUNG DISEASE IN PATIENTS WITH RHEUMATOID ARTHRITIS.
Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Marcos Rosemffet, Jonathan Balcazar, Miguel Perandones, Paola Orausclio, Tomas Cazenave, Santiago Rossi, Sebastian Marciano, Emilce Schneeberger, Gustavo Citera

Forced oscillation technique in progressive pulmonary fibrosis
Anna Denis (Liège, Belgium), Monique Henket, Hadrien Gillet, Laurie Giltay, Fanny Gester, Renaud Louis, Julien Guiot

Transbronchial lung cryobiopsy for the diagnosis of Fibrotic Hypersensitivity Pneumonitis
Pedro Magalhães Ferreira (Vila Nova de Gaia (District de Porto), Portugal), Francisco Machado, Hélder Novais-Bastos, Natália Melo, André Terras Alexandre, Patricia 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.
Hannah Torlot (London, United Kingdom), Thida Win, Balaji Ganeshan, Nick Screaton, Toby Maher, Francesco Fraioli, 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 Shafieek, Eman Hatata, Naihaa 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

Pulmonary function in Thai patients with systemic sclerosis; a single center 6-year retrospective study
Thitisak Sakulvorakitti (Pathumthani, Thailand), Pattarin Pirompanich

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 Baicu, Valentin Nedelcu, Ion Ion, Marius Balea

SSc-ILD pulmonary function dynamics – is “normal” dangerous?
Marius-Alexandru Coteț (Bucuresti, Romania), Daniela Gologanu, Valentin Nedelcu, Ion Andrei Ion, Marius Ioan Balea, Daniela Popescu, Alina Dima, Magda Pârvu, Valer Pompilian, Doina Nițescu, Simona Caraiola, Răzvan Ionescu, Camelia Badea, Larisa Pinte, Cristian-Răsvan Bâicuș

Overt and covert airflow limitations in DPLD: a spirometric appraisal
Sayanti Karmakar (KOLKATA, India), Sayoni Sengupta, Avishek Kar, Debkanya Dey, Shuvam Ghosh, Dipanjan Saha, Arindam Mukherjee, Parthasarathi Bhattacharyya

Evaluation of lung function referral and testing in the context of Interstitial Lung Disease (ILD).
Calvin Apen (Doncaster (South Yorkshire), United Kingdom), Muhammad 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 Perlux, Eyal Kleinhandler, Tzil Hershko, 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, Nanthamon 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 Mc Carthy

Multidisciplinary collaboration for correct diagnosis and correct treatment in interstitial lung disease associated with connective tissue diseases
Nesrin Öcal (Ankara, Turkey), Emre Tekgöz, Seda Çolak, Ezgi Çimen Güneş, Deniz Doğan, Muhammet Çınar, Yakup Arslan, Cantûrk Taşçî

- Impact of antigen exposure on survival and treatment response in hypersensitivity pneumonitis
Monica Mullin (Vancouver, Canada), Gustavo Fernandez, Daniel-Costin Marinescu, Boyang Zheng, Alyson W. Wong, Deborah Assayag, Jolene H. Fisher, Kerri A. Johannson, Nasreen Khalil, Martin Kolb, Helene Manganas, Veronica Marcoux, Julie Morisset, Christopher J. Ryerson

Management of connective tissue disease related interstitial lung diseases in a district general hospital.
Natasha Ramsundar (London, United Kingdom), Alex Francioni, Muhammad Nisar, Vijay Joshi, Judeson Gnanapragasam

### PS-3 in poster area

**Session: 12:30 - 14:00**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
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<tr>
<td>Respiratory critical care, Sleep and breathing disorders, Airway diseases</td>
<td>Pulmonary rehabilitation, General respiratory patient care, Respiratory intensive care, Epidemiology, Physiology, Pulmonary function testing</td>
<td>Peter J. Wijkstra (Groningen, Netherlands), Chloé Cantero (Paris, France)</td>
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**Poster session: Long-term home ventilatory support: goals and outcomes**

- Can health-related quality of life predict mortality in home mechanical ventilated patients?
  Carla Ribeiro (Vila Nova de Gaia, Portugal), Cristina Jâcome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes

- Long-term health-related quality of life in patients on home mechanical ventilation
  Carla Ribeiro (Vila Nova de Gaia, Portugal), Cristina Jâcome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes

- German Version of the S3-NIV Questionnaire - Translation, Cultural adaptation and Validation of a simple tool for the assessment of home noninvasive ventilation
  Daniel Majorski (Cologne, Germany), Axel Kuck, Doreen Kroppen, Sarah Schwarz, Maximilian Wollsching-Strobel, Friederike Magnet, Tim Mathes, Wolfram Windisch
Perceived health-related benefits and side effects of long-term Home Mechanical Ventilation in an outpatient setting
Diana Amorim (Maia, Portugal), Leonor Roseta, Cristina Jacome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro

Understanding the outcomes that matter to Patients and what influences these: An International Survey of Patients Treated by Home Mechanical Ventilation (HMV)
Cecile Delval (Paris, France), Judith Livingston, Manuella Schaller

Patients' perception of home mechanical ventilation benefits and side effects: does disease play a role?
Leonor Roseta (Calvão – Vagos, Portugal), Diana Amorim, Cristina Jácome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro

Cardiomyopathy as cause of death in Duchenne muscular dystrophy – a longitudinal observational study
Joël Julien Herzig (Zürich, Switzerland), Annabel Lechner, Jacqueline Gabriela Kientsch, Silvia Ulrich, Esther Irene Schwarz

Survival of multiple sclerosis patients requiring positive airway pressure and/or mechanical insufflation-exsufflation.
Anastasia Krompa (London, United Kingdom), Neeraj Mukesh Shah, Michael Cheng, Rebecca Francesca D'Cruz, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Brian Murphy, Georgios Kaltsakas

Determining factors affecting survival in a hospital-based motor neurone disease population on domiciliary NIV
Revati Naran (London, United Kingdom), Swapna Mandal

Predictors of survival at initiation of non-invasive ventilation in amyotrophic lateral sclerosis
Neeraj Shah (New Malden (Surrey), United Kingdom), Anne Rossel, Bawan Abdulaziz, Shauna Sheridan, Michael Cheng, Rebecca D'Cruz, Philip Marino, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Murphy, Michelle Ramsay, Georgios Kaltsakas

Surgical outcomes in patients on home mechanical ventilation
Jan De Mey (Ghent, Belgium), Lauren Heyman, Luc De Baerdemaeker, Eric Derom

Successful tracheostomy decannulation in patients with neuromuscular disorders: long-term follow-up
Chan Woong Jang (Seoul, Republic of Korea), Han Eol Cho, Miri Suh, Won Ah Choi, Su Hyun Cho, Inyeop Kim, Seong-Woong Kang

Pulmonary rehabilitation (PR) referral of COPD patients established on home NIV
Léa Razakamanantsoa (Paris, France), Typhaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout

Home Non Invasive Ventilation (H-NIV) Patient Characteristics and Outcomes: Observational study in a teaching hospital in the UK
Kashvin Kumar Ram Kumar (Norwich, United Kingdom), Hannah Bardsley, Vicky Ershadi, Georgina Siggins, Prasanna Sankaran

Long-term Noninvasive Ventilation for COPD patients following an exacerbation with acute hypercapnic respiratory failure: a randomized controlled trial
Jon Torgny Rostrup Wilcke (København Ø, Denmark), Caroline Hedsund, Kasper Linde Ankjærgaard, Tine Peick Sonne, Philip Tommesen, Ejvind Frausing Hansen, Helle Frost Andreassen, Ronan M. G. Berg, Jens-Ulrik Stæhr Jensen

Prognostic indicators of Non-Invasive Ventilation dependence in Duchenne muscular dystrophy
Kenki Matsumoto (London, United Kingdom), Carrie Hallam, Michael Polkey, Shrutithi Konda

Cognitive impairment in patients non-concordant with domiciliary non-invasive ventilation: A service evaluation
Ashleigh Thorn (London, United Kingdom), Stephanie Mansell, Eleanor Main

Long term survival in ALS patients with Home Tracheostomy Mechanical Ventilation
Mariam Garcia Alfaro (Peralta, Spain), Andrea Ballester Ferriz, Jesús Sancho Chinesta, Santos Ferrer Espinosa, Jaime Signes-Costa Miñana

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

Intermittent abdominal pressure ventilation: efficacy in neuromuscular diseases.
Francesca Simioli (Napoli (NA), Italy), Anna Annunziata, Maria Rosaria Valentino, Antonietta Coppola, Cauteruccio Rosa, Angela Mirizzi, Roberto Rega, Giuseppe Fiorentino

PS-13 in poster area  Session  12:30 - 14:00
Poster session: Epidemiology of rare paediatric respiratory diseases
VARIABILITY OF LUNG FUNCTION IN PATIENTS WITH PRIMARY CILIARY DYSKINESIA (PCD): LONGITUDINAL ANALYSIS FROM THE PROVALF-PCD COHORT, A BEAT-PCD COLLABORATION
Bruna Rubbo (Bristol, United Kingdom), Kewei Zhang, Avni Kant, Melissa Borelli, Carolina Constant, Silvia Castillo-Corullón, Ela Erål, 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, Woolf Walker, Panayiotis Yiallourous, Camille Pearse, Bettina Frauchiger, Claudia Kuehni, 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, Annalisa Allegorico, Mieke Boon, Melissa Borelli, Claudia Calogero, Stéphanie Carr, Carolina Constant, Silvia Castillo-Corullón, Nagehan Emiralioglu, Amanda Emiralioglu, Amanda Harris, Bulent Karadag, June Martin, Vendula Martinu, Lucy Morgan, Heymut Omran, Phil Robinson, Sandra Rovira-Amigo, Anne Schlegendahl, Guillaume Thouvenin, Panayiotis Yiallourous, Claudia Kuehni, 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 ElNagheeb, Rahma Mani, Maria-Ines Benito, Rasha Soliman, Mafalda De Almeida Gomes, Alexander Ing, Sabri Abdelwahab, Lindsay Worley, Shannon Menulty, Justine Siew, Courtney Lynn Thaxton, Catrina M Loucks, Simon Thomas, Maimeona Zariwala, Maria Met Leigh, Deborah Morris-Rosendahl, Ewa Siekiewicz, Sharon Dell, Ben Gaston, Berndt Dvoriczek, 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 Kuehni

PHYSICAL ACTIVITY IN PEOPLE WITH PRIMARY CILIARY DYSKINESIA
Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Claudia E Kuehni

ASSOCIATION BETWEEN UPPER AND LOWER RESPIRATORY DISEASE IN PRIMARY CILIARY DYSKINESIA
Yin Ting Lam (Bern, Switzerland), Jean-François Pap, Mikaela Alexandru, Andreas Anagiotos, Miguel Armengot, Mieke Boon, Andrea Burgess, Doriane Calmes, Suzanne Crowley, Sinan Ahmed, D. Dheyauleen, Nagehan Emiralioglu, Ela Erdem Erål, Christine Van Gogh, Eric G. Haarman, Amanda Harris, Isolde Hayn, Sara-Lynn Hool, Bulent Karadag, Céline Kempeneers, Sooyung Kim, Philipp Latzin, Natalie Lorent, Ugur Ozcelik, Ana Reula, Jobst Roehmel, Panayiotis Yiallourous, Myrofora Goutaki

FERTILITY COUNSELLING IN PEOPLE WITH PRIMARY CILIARY DYSKINESIA
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Philippa Jörger, 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 Pap, 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 Buyuksahin, Nural Kiper, Nagehan Emiralioglu, Ugur Ozcelik, Deniz Dogru Eroso, Ebru Yalcin

THE CLINICAL AND GENETIC SPECTRUM OF THE INTERSTITIAL LUNG DISEASES IN INFANCY ASSOCIATED WITH SURFACANT PROTEIN DISORDERS: A RETROSPECTIVE STUDY
Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Halime Nayir Buyuksahin, Birce Sunman, Ismail Guzelkas, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcellik, 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 Gascón Casaredi, Núria Ferrer Bosch, Maria Colís Roig

Pediatric non-CF bronchiectasis in the Vinnytsia region in Ukraine - what can we do better?
Oleksandr Mazulov (Vinnytsia, 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 Usemann (Basel, Switzerland), Christine Schneider, Christa Koenig, Enno Stranzinger, Maša Žarković, Claudia Kuehn, 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 (Bogota, Colombia), Clara Galvis, Lina Cabrales, 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
Ranniery 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-8 in poster area Session 12:30 - 14:00
Poster session: New frontiers in chronic cough, α1-antitrypsin deficiency, and airway diseases endoscopy

Disease(s) : Airway diseases Interstitial lung diseases
Method(s) : Epidemiology General respiratory patient care Cell and molecular biology Endoscopy and interventional pulmonology Surgery Imaging Physiology Pulmonary function testing
Chairs : Gaetano Caramori (Messina (ME), Italy), Chair to be confirmed

Efficacy and safety of gefapixant for treatment of refractory or unexplained chronic cough: a systematic review and dose-response meta-analysis
Elena Kum (Hamilton, Canada), Matthew Patel, Nermin Diab, Mustafaa Wahab, Dena Zeraatkar, Derek Chu, Gordon Guyatt, Paul O'Byrne, Imran Satia

Relevance of cough in patients with severe asthma: Analysis from the Korean Severe Asthma Registry (KoSAR) study
Hwa Young Lee (Seoul, Republic of Korea), Youngsoo Lee, Seung-Eun Lee, Da Woon Sim, Noeul Kang, Byung-Jae Lee, Joo-Hee Kim, Sung-Yoon Kang, Ga-Young Ban, Young Hee Nam, Sujeong Kim, Chan Sun Park, So Ri Kim, Jin An, Byung Keun Kim, Heung-Woo Park, Taehoon Lee, Ji-Ho Lee, So-Young Park, Sook Young Lee, Hae-Sim Park, You Sook Cho, Sang-Heon Kim, Woo-Jung Song

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 Diepinigaitis, Alyn Morris, 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 Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, 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 Dockry, 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 García-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 Stamou, Linda Fröderberg Roth, Edward 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 Grahl, Wolfgang Gesierich, Andreas Gebhardt, Joachim H. Ficker, Stephan Enggeld, Stefan Andreas, Bernhard 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, Rania Kharrat, Mariem Ben Ayed, Omar Walha, Najla Bahloul, Mohamed Amin Chaabouni, Sami Kammoun, Ilhem Charfeddine

Acquired tracheal stenosis: what to do?
Najla Bahloul (Sfax, Tunisia), Kallel Souha, kharrat rania, Ben Ayed Mariem, Salem Noura, 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 McRae, Andrew Higham, Simon Lea, Dave Singh

Late Breaking Abstract - Validation of assays measuring functional alpha-1 antitrypsin (AAT) in patients with AAT deficiency (AATD)
Jason Zour (La Jolla, United States), Varun Ramani, Carolina Bellizzi, Buket Onel, Liz Nolff, Brendan Eckelman, Carson Veldstra
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
Chairs : Ian Douglas Pavord (Oxford (Oxfordshire), 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
Stoïlka 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 Enriquez Rodriguez, 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 María 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, Ilhem 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 Mendonca (Vitória de Santo Antão, Brazil), Glívia Maria Barros Delmondes, Bruno Rafael Vieira Souza Silva, Polyanna Guerra Chaves Quirino, José Angelo Rizzo, Edil Albuquerque Rodrigues Filho, Emanuel Sarinho, Camila Matias De Almeida Santos, Decio Medeiros, Emília Chagas Costa, Alexandre Sérgio Silva, Breno Quintella Farah, Marco Aurélio De Valois Correia 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, Chiyoko Matama, Shingo Tsucheyoshi, Ryo Yano, Masanobu Matsuoka, Tomoaki 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. Sznajder, István Vadász

Differences in the consumption of health resources in patients with COPD exacerbations according to convivence with family members.
Stephany Ivonne Briones Alvarado (Madrid, Spain), Katiuska Herminia Liendo Martinez, Zichen Ji, 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, 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
Parthasarathi Bhattacharyya (Kolkata (West Bengal), India), Srijita Sen, Shuvam Ghosh, Debkanya Dey, Avishek Kar

Comparing Cardiovascular disease pattern among COPD patients with and without bronchiectasis.
Saadia Ashraf (Peshawar, Pakistan), Amber Ashraf, Yasir Imtiaz, Rukhsana Anwar, Hamza Asif, Hussain Ahmed

Late Breaking Abstract - Oral bacteria and rate of lung function decline in a general population
Christine Dresgenes (Bergen, Norway), Hesham Amin, Ane Johannessen, Kristina Mathiesen, Cecilie Svanes, Randi Bertelsen

PS-7 in poster area
Poster session: Addressing exacerbations and pneumonia in airway diseases

Increased risk of severe cardiovascular 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, Joaquim Sanchez-Covisa, Kirsty Rhodes, Clementine Nordon, On Behalf Of The Exacos-Cv Study Group

In-hospital antibiotic use for severe chronic obstructive pulmonary disease exacerbations: a retrospective observational study
Anna Vanoverschelde (Ghent, Belgium), Chłoś Van Hoey, Franky Bayle, Nadia Den Blauwen, Pieter Depuydt, Eva Van Braeckel, Lies Lahousse

FREQUENCY OF OCCURRENCE AND GENE-SEROTYPE CHARACTERISTIC OF STREPTOCOCCUS PNEUMONIAE IN COHORT OF PATIENTS WITH COPD.
Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko

Predictive factors for the occurrence of COPD exacerbations
Meriam Nemleghi (Ariana, Tunisia), Hela Kamoun, Bochra Karaborni, Hadhemi Rejeb, Dorra Greb, Hajer Abdelghaffar, Ines Akroud, Hela Hassene, Leila Fekih, Hanene Smadhi, Mohamed Lamine Meghdiche

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

Tapering courses of oral corticosteroids after hospital admission due to asthma exacerbation
Richard Russell (Leicester, United Kingdom), Meghna Ray, Hamza Yaqub, Anna Murphy

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

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, Jørgen Vestbo, Alexander G. Mathioudakis

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, Sman Wu, Ting Yang

Systemic inflammation and exacerbation 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
Validation of an EMR derived algorithm to identify moderate asthma exacerbations in the UK

A prospective study of inhaled therapy prescribing, pMDI technique assessment, and inhaler concordance amongst hospitalised patients with airways disease
Luwanne Lai (Middlesbrough, United Kingdom), Bethany Cockerill, Emma Lunn, Reem Abdelgadir, George Antunes

COPD Patients Admitted to Hospital: A Missed Opportunity to Optimise Care?
Luanne Lai (Middlesbrough, United Kingdom), Bethany Cockerill, Emma Lunn, Reem Abdelgadir, George Antunes

Interpreting the significance of collagen-IV level changes in bronchoalveolar fluid in acute COPD exacerbation before and after tiotropium bromide treatment
Mariana Kulynych-Miskiv (Galych, Ukraine), Mykola Ostrovskyy, Vasyl Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Kostiantyn Shvets, Alla Zuban, Nadia Korzh, Ólga Molodoves, Galyna Korzh

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), Manoharlal 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, Huiguuo Liu, Jianchu Zhang, Xianhua Li, Pinhua 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)
Niço 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 Brusselle, Liam G Heaney, Sandhia Ponnarambil, Gillian Hunter, Andrew W Lindsley, Christopher S Ambrose

PS-15 in poster area
Session 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

Chairs: Irina Kontsevaya (Borstel, Germany), Chair to be confirmed

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, Nhng Nguyen, Greg Fox

Joseph Gafton (London, United Kingdom), Daniel Pope, Santino Capocci, Janan Jeyatheesan, Rory Mcdermott

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
Giulia Menotti (Bologna, Italy), Maddalena Giglia, Marina Tadolini, Niccolò Riccardi, Mar Diop Yacine, Mamoudou Ndiaye, Giorgio Besozzi, Giovanni Sottigli, Laura Saderi, Luigi Ruffo Codecasa

Post-TB lung disease: what can be learned from the past
Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luis Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Carla Janela, Natália 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 Swanepoel, Carl Lombard, Rory Dunbar, Pierre Goussard, Eric Mccomllum, H. Simon Schaf, Anneke C. Hesselings, 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/RR-TB
Elmira Gurbanova (Baku, Azerbaijan), Natalia Yatskevich, Askar Yedibayev, Oleksandr Korotych, Arax Hovhannesyan, Maryna Tyshko, Nastassia Dankova, Alena Skrahina

Does pulmonary tuberculosis differ by gender?
Nemsi Ella (Tunis, Tunisia), Ben Jemia Emma, Chaabi Khouloud, Khedhiri Manel, Ben Attig Yosra, Ben Amar Jihene, Boudaya Sadok, Zabi 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
Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Iryna Kalmykova, Hanna Buravel, Svitlana Tiahlo, Tetiana Syenko

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 Piedelpalumbo, 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, Saajid Khan, Khalid Jamal, Azhar Uddin, Shumaila Javaid, Abdul Ghafoor, Muhammad Salman Khan

COVID pandemic and its drawback effects on tuberculosis in vulnerable groups
Nemsi Ella (Tunis, Tunisia), Ben Jemia Emma, Chaabi Khouloud, Khedhiri Manel, Ben Attig Yosra, Ben Amar Jihene, Boudaya Sadok, Zabi Haifa, Aouina Hichem

Latent tuberculosis infection in healthcare workers – the reality of a Portuguese hospital
Carina Rôlo Silvestre (S. João das Lampas, Portugal), Rute Afonso, Sofia Alves, Maria Cavaco, Luis Mateus, André Nunes, Ricardo Cordeiro, Natália André, Paula Raimundo, Teresa Falcão, António Domingos

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 and country of origin on tuberculosis treatment outcome in Greece
Foteini Gkakou (Thessaloniki, Greece), Maria Sionidou, Panagiota Kyreltsi, 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 Armando, Joana Carvalho, Catarina Pissarra, Soledade Estríbão, 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

Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Graham Burns, Ioannis Vogiatzis, Matthew Armstrong

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
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 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
**Purple Session** 13:45 - 15:15

**Symposium: Kidney-lung crosstalk in pulmonary disease**

**Aims:** to describe the pulmonary-renal link in physiology and pathological conditions; to discuss the interorgan crosstalk, which is emerging as a key underlying pathophysiologic mechanism in both systemic (sepsis and critical illness) and organ-specific (chronic obstructive pulmonary disease (COPD) and interstitial lung disease) illnesses; to emphasize the interaction between the kidneys and lungs in pathological conditions that has been recently identified; to explain the clinical and therapeutic consequences of the crosstalk between the kidneys and lungs.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Scientist (basic, translational)

**Chairs:** Silke Meiners (Sülfeld, Germany), Salman Siddiqui (London, United Kingdom), Julie Bastarache (Nashville, United States)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<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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**Coral 2 Session** 13:45 - 15:15

**Hot topics: The role of novel imaging modalities in sarcoidosis diagnosis and management**

**Aims:** to discuss pivotal role of imaging in diagnosis and follow-up of patients with sarcoidosis; to point out the most appropriate imaging studies, stressing their advantages in various forms of sarcoidosis; to emphasise the important role of high-resolution computed tomography (HRCT) for detection and assessment of subtle parenchymal lesions and abnormalities of lung structures; to present role of HRCT and newly emerging photon counting CT (PCCT) in differentiating active inflammation from irreversible lung disease and fibrosis; to discuss use of magnetic resonance imaging (MRI) for evaluating the involvement of the myocardium in sarcoidosis, as well as increased interest in the role of diffusion-weighted MRI for the characterisation of mediastinal lymphadenopathy.

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

**Method(s):** Epidemiology, General respiratory patient care, Imaging

**Tag(s):** Clinical

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

**Chairs:** Karen Moor (Rotterdam, Netherlands), Carlos Robalo Cordeiro (Coimbra, Portugal)
14:30 Sarcoidosis: gaps in diagnosis and treatment
Paolo Spagnolo (Padova (PD), Italy)

13:45 Sarcoidosis: when is HRCT not enough and when should PCCT be performed?
Adám Domonkos Tárnoki (Budapest, Hungary)

14:00 MR in sarcoidosis: is it reserved for cardiac sarcoidosis/assessment of cardiac involvement?

14:15 Is there a role for PET CT in sarcoidosis?
Speaker to be confirmed

14:45 Discussion and Q&A

Coral 1 Session 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
Speaker to be confirmed

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

Coral 4+5 Session 13:45 - 15:15
Hot topics: Current challenges in airways disease management

Aims: to provide an update on our knowledge of airway disease pathophysiology and its clinical implications; to present new paradigms and latest challenges that appear in the airway diseases management.

Disease(s): Airway diseases

Method(s): Epidemiology, General respiratory patient care, Physiology

Tag(s): Clinical

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

Chairs: Emer Kelly (Dublin 4, Ireland), Apostolos Bossios (Stockholm, Sweden), Omar S. Usmani (London, United Kingdom)

13:45 Aiming for remission in asthma: is this a useful treatment goal?
Johann Christian Virchow (Rostock, Germany)

14:00 Evolution in GOLD: we cannot ‘see’ ‘C’ anymore and LABA/ICS are gone. Helpful or a hindrance?
Antonio Anzueto (SAN ANTONIO, United States)
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

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

Chairs: Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece), Joanna Chorostowska-Wynimko (Warsaw, Poland)

13:45 New insights into tumour biology: digital pathology in lung cancer diagnostics
Speaker to be confirmed

14:00 It is not always malignant: a revisited systematic approach to diagnose the solitary pulmonary nodule
Torsten Gerriet Blum (Berlin, Germany)

14:15 Determining suspicious pleural findings: update on differential diagnostic strategies for pleural thickening and plaques
Najib M. Rahman (ABINGDON, United Kingdom)

14:30 Modern physiotherapy as an essential component of lung cancer and pleural mesothelioma care
Maria Koulopoulou (London, United Kingdom)

14:45 Discussion and Q&A
Silver Session 13:45 - 15:15

Journal session: ERJ/NEJM joint session

Chairs: Darren Taichman (Boston, United States), James D. Chalmers (Dundee (Angus), United Kingdom)

13:45 - 15:15

13:45

14:00 Discussion and Q&A

14:00-14:45

INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

Yellow 1+2+3 Session 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

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 Semprini (Harbour View (Lower Hutt), New Zealand), Stacey Kung, Alex Semprini, Jessica Fogarin, Sascha Zoellner, Richard Beasley, Louis Kirton, Karen Oldfield, Marjan Doppen, Allie Eathorne, Georgia Hoggarth, Zamir Joya, Sajida Ismatullah

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 Biaquins (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 Ridgers (Heidelberg, Australia), Warren Ruehlman, 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

Discussion and Q&A

Blue 1+2 Session 14:15 - 15:30

Oral presentation: Remote monitoring of respiratory patients
Late Breaking Abstract - Exploring technology preferences and reliever inhaler use in adults with asthma – survey results with behavioral 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

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 Degreef, Marion Teulier, Christian Darne, Franck Lavergne, Capucine Morelot-Panizzi

Remote MONITOring of patients with chronic obstructive pulmonary disease using a tablet system. A randomized crossover study on quality of life measurements
Malte Frerichs (Göteborg, 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?
Sivakamisundari Narayani Ampikaipakan (Norwich, United Kingdom), Claire Beard, Katherine Cooper, Rose Cary, Michael Waters, Mark Posteur

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

Variability in home spirometry is associated with dyspnoea in interstitial lung disease
Iain Stewart (London, United Kingdom), Ankes Gandhi, Jia Wen, Colin Edwards, Rebecca Borton, Steve Jones, Fasihul Khan, Gisli Jenkins

Clinical validation of real-world walking cadence in patients with COPD
Laura Delgado Ortiz (Barcelona, Spain), Saverio Ranciati, Ane Arbilla-Etxarri, Eva Balcells, Joren Buekers, Heleen Demeyer, Anja Frei, Elena Gimeno-Santos, Nicholas S. Hopkinson, Corina De Jong, Niklas Karlsson, Luca Palmerini, Michael I. Polkey, Milo A. Puhu, Roberto Rabinovich, Diego Rodriguez Chiaradia, Robert Rodriguez-Roisin, Pere Toran, Ioannis Vogiatzis, Henrik Watz, Thierry Troosters, Judith Garcia-Aymerich

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

Laboratory and free-living gait performance in adults with COPD and healthy controls
Joren Buekers (Barcelona, Spain), Dimitrios Megaritis, Sarah Koch, Lisa Alcock, Clerens Becker, Stefano Bertuletli, Tecla Bonci, Philip Brown, Ellen Buckley, Sara C. Buttery, Brian Caulfield, Andrea Cereatti, Nikolaos Chynkiamis, Heleen Demeyer, Carlos Echevarria, Anja Frei, Clint Hansen, Jeffrey Hausdorff, Nicholas S. Hopkinson, Emily Hume, Walter Maetzler, Encarna M. Micó-Amigo, Luca Palmerini, Francesca Salis, Kirsty Scott, Thierry Troosters, Henrik Watz, Lynn Rochester, Silvia Del Din, Ioannis Vogiatzis, Judith Garcia-Aymerich

Discussion and Q&A
Genetic screening for cerebellar ataxia with neuropathy and bilateral vestibular areflexia syndrome (CANVAS) in patients with chronic cough. Preliminary analysis
Esther Palones Femenia (Barcelona, Spain), Elena Curto Sánchez, Lidia Gonzalez Quereda, Pia Gallano Petit, Luis Querol Gutiérrez, Federico Bertoletti, Maria Jose Rodriguez Fernandez, Alba Segarra Casas, Astrid Crespo Lessmann

Breath metabolomics to monitor the response to CFTR modulators in adults with cystic fibrosis
Emmanuelle Bardin (Paris, France), Helene Salvator, Camille Roquencourt, Isabelle Sermet-Gaudelus, Dominique Grenet, Philippe Devillier, Stanislas Grassin Delyle

Augmentation therapy for severe alpha-I antitrypsin deficiency improves survival but is decoupled from FEV1 decline

Patients with chronic airway disease: Insights from a sputum proteome analysis
Stefanie Graeter (Bern, Switzerland), Luigi Capriotti, Anna Schnell, Moritz Saxenhofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Steward, Carlos Roca, Ilka Schulze, Alexander Schaub

Serum YKL-40 as a biomarker for predicting loss of lung function and neutrophilic airway inflammation in asthma, COPD and asthma-COPD overlap
Yasuhiro Suzuki (Fukushima-City, Japan), Junpei Saito, Mami Rikimaru, Atsuro Fukuhara, Tomoyoshi Lee, Ryuki Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Mikako Saito, Natsumi Watanabe, Takaya Kawamata, Ryuichi Togawa, Julia Morimoto, Yuki Sato, Hirohiko Minemura, Takefumi Nakaido, Naoko Fukuhara, Kenya Kanazawa, Yoshinori Tanino, Yoko Shibata

Airway extracellular copper concentrations increase with age and are associated with oxidative stress independent of disease state.
Andreas Frollich (Umeå, Sweden), Rosamund E. Dove, Annelie F. Behndig, Ian S. Mudway, Anders Blomberg

Ciliary dyskinesia is not affected by chronic mucus hypersecretion in severe asthma
Céline Kempeneers (Liège, Belgium), Romane Bonhiver, Noémie Bricmont, Maud Pirotte, Sara Engelskirchen, Catherine Moermans, Doriane Calmes, Françoise Guissard, Lionel benchimol, Marie-Christine Seghaye, Renaud Louis, Florence Schleich

Effect of Mepolizumab on airways remodeling in patients with late-onset severe eosinophilic asthma and fixed obstruction (preliminary data of the MESILICO study)
Kalliopi Domvri (Thessaloniki, Greece), Ioanna Tsouprou, Petros Bakakos, Nikola Rovina, Paschalis Stirooulos, Athanasios Voulgaris, Konstantinos Katsoulis, Maria Kipourou, Paraskevi Katsaounou, Sofia Karachrysafi, Pinelopi Anastasiadou, Theodora Papamitsou, Antonia Sioga, Nikola Pasteli, Styliani Papaemmanouil, Angeliki Cheva, Stavros Tryfon, Evangelia Fokou, Despoina Papakosta, Konstantinos Porpodis

Discussion and Q&A
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 Deleazay, Sophie Hodin, David Launay, Sylvain Marchand-Adam, Hilario Nunes, Edouard Ollier, Jean Pastré, Sébastien Quetant, Martine Reynaud-Gaubert, Julie Traclet, 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 Facchini, Mirco Govoni

Quantitative evaluation of pulmonary arteriolar structural changes in pulmonary arterial hypertension
Gitte Aerts (Leuven, Belgium), Lynn Willems*, Astrid Vermaut, Laurent Savale, Alex Hlavaty, Xavier Jais, Mithum Kularatne, Gérald Simonneau, Olivier Sitbon, Frederic Perros, Marc Humbert, David Montani

Characteristics and outcomes of patients developing pulmonary hypertension associated with proteasome inhibitors
Julien GRYNBLAT (Paris, France), Charles Khouri, Marie-Camille Chaumais, Laurent Savale, Alex Hlavaty, Xavier Jais, Mithum Kularatne, Gérald Simonneau, Olivier Sitbon, Frederic Perros, Marc Humbert, David Montani

Identification of AURKB as a new actor in vascular remodeling in PAH
Sarah-Eve Lenay (Quebec, Canada), Mélanie Sauvaget, Manon Mogun, Reem El Kabbout, Sandra Martineau, Sandra Breuils-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), Xiaoqi Hu, Lan Wang, Jinming Liu, Yi Wang, Xiaohuan Xia, Jialin Zheng

# Discussion and Q&A

### Brown 1+2 Session 14:15 - 15:30

**Oral presentation: Nursing role in global respiratory health**

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

**Method(s):** General respiratory patient care, Epidemiology, Pulmonary rehabilitation, Palliative care, Public health

**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 primary care settings**

Maureen George (New York, United States), Samrawit Solomon, Amy Mcmennamin, Gordon Zhang, Carolina Lopez, Marija Zeremski, Andrea Cassells, Jonathan N. Tobin, Jean-Marie Bruzzese, Emily Dimango, Alanna E. Kavanaugh, Rachel Shilton

**Use of non-invasive ventilation in the palliative care of patients with chronic obstructive pulmonary disease: a scoping review**

Simen Alexander Steinadl (Oslo, Norway), Mari O Ohnstad, Kristin Hegdahl, Marie-Marie Wallander Karlsen, Hanne Aagaard, Kari Sorensen, Vivi L Christensen, Kristin Hofo, Monica E Kvande, Nina M Kyno, Anne Kathrine Langerud, Brith Andresen, Marie H Larsen

**The extent and characterization of underdiagnosis and miscategorization of COPD in Sweden**

Malin Axelsson (Malmö, Sweden), Helena Backman, Bright I. Nwari, 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, Omaima Omar, Emmet Mcgurthy, Michael P Keane, Cormac Mccarthy

**Modifiable factors of uncontrolled asthma – the crucial role of the asthma nurse**

Maja Zrníc (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 of 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
Silvía 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), Sheree 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 Murphee, Carme Hernández, Malin Axelsson, José Miguel Padilha, Mariana Paula Rezelj, Carol Stonham, Karen Heislop-Marshall

Discussion and Q&A

Amber 3+4 Session 14:30 - 16:50
Skills workshop: SW9 Practicalities of spirometry and whole-body plethysmography
Aims: to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

Disease(s): Airway diseases Paediatric respiratory diseases
Method(s): Physiology Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist
Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

14:30 Introduction

14:30 Performing spirometry
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

14:30 Standardised static lung volume measurement using whole-body plethysmography
Frans H.C. De Jongh (Enschede, Netherlands)

14:30 Measurement of airway resistance and resistance-volume loops using whole-body plethysmography
Mart N. van der Plas (Monster, Netherlands)

14:30 Reporting and interpretation of case studies
Gregory King (Sydney (NSW), Australia)

Amber 1+2 Session 14:30 - 16:50
Skills workshop: SW6 Interpretation of cardiopulmonary exercise tests
Tips and pitfalls in cardiopulmonary exercise testing assessment
Aims: to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

Disease(s): Airway diseases Interstitial lung diseases Pulmonary vascular diseases
Method(s): Physiology Pulmonary function testing Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist
Chairs: Pierantonio Laveneziana (Paris, France)

14:30 Introduction

14:30 Relationship between oxygen uptake and work rate
Paolo Palange (Rome, Italy)
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<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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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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### Coral 1 Session 15:30 - 17:00

#### Symposium: Addressing disparities and deprivation in the care of children with lung diseases: a world view

**Aims:**
- To address disparities and strategies to achieve equity in asthma care globally;
- To discuss global differences in asthma prevalence, asthma management, access to healthcare and affordability of asthma medications;
- To define solutions to gaps in asthma care in low-resource settings;
- To discuss potential social injustice and disparities and strategies to achieve equity in middle- and high-income countries;
- To address issues of diagnostics and asthma care in these lower-resourced settings as well as key research priorities that may improve outcomes globally.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Journalist

**Chairs:** Nicole Beydon (Paris, France), Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany)

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<th>Time</th>
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<th>Speaker</th>
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<tr>
<td>15:30</td>
<td>Access to asthma medication across the life-course: what we have learnt from global data</td>
<td>Luis Garcia-Marcos Alvarez (El Palmar (Murcia), Spain)</td>
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<td>15:45</td>
<td>Sub-Saharan Africa: impact of deprivation on respiratory infections and lung health outcomes in chronic respiratory diseases</td>
<td>Refiloe Masekela (Pretoria, South Africa)</td>
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<td>16:00</td>
<td>Disparities in communities: how do we make the equation more equitable?</td>
<td>Speaker to be confirmed</td>
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<td>16:15</td>
<td>Eastern Europe: deprivation in the face of war and access to healthcare</td>
<td>Oleksandr Mazulov (Vinnitsia, Ukraine)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q&amp;A</td>
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### Purple Session 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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<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>15:30</td>
<td>What can we learn from acute virus infections for chronic disease?</td>
<td>Peter Openshaw (London, United Kingdom)</td>
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<td>15:45</td>
<td>Long-lasting alterations in lung anti-tumour immunity by viral infections</td>
<td>Lucia Rodriguez Rodriguez (Liege, Belgium)</td>
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<td>16:00</td>
<td>Lung regeneration for inherited interstitial pulmonary fibrosis using a novel combinatorial adeno-associated virus gene therapy</td>
<td>Pauline BARDIN (Paris, France)</td>
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</table>
Recapitulating morphological and functional characteristics of distal airways in tubular organoids to model post-viral obstructive diseases
Isabelle Dupin (Bordeaux, France)

16:30 Discussion and Q&A

Coral 4+5 Session 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):** Clinical

**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)

15:45 Multiple novel classifications of COPD (subtypes, aetiotypes, pre-COPD, early-COPD): are these helpful in offering better care for patients?
Shyamali Dharmage (Carlton Victoria, Australia)

16:00 Non-T2 asthma, the unmet need: molecular phenotyping to identify pathways for patient benefit. Are we getting any closer?
Richard Costello (Dublin 9, Ireland)

16:15 Treatable traits in bronchiectasis: will they help in bedside treatments for our patients?
Clémence Martin (Paris, France)

16:30 Discussion and Q&A

Coral 2 Session 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 disease 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 Electronic health records system: an opportunity for respiratory patients to receive better care
Speaker to be confirmed

15:45 Big data and AI: it is not just about imaging
Özçelik Neslihan (Rize, Turkey)

16:00 Digital health services for respiratory patients in Norway
Paolo Zanaboni (Tromsø, Norway)

16:15 Use of digital medicine during wartime: Ukrainian experience
Vitalii Poberezhts (Vinnytsia, Ukraine)

16:30 Discussion and Q&A
Clinical trials session: ALERT 3  
Chairs: Darren Taichman (Boston, United States)

15:30
15:37
15:44
15:51 Wrap-up by discussant and discussion
16:13
16:20
16:27
16:34 Wrap-up by discussant and discussion
16:56 Closing remarks

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

Disease(s): Respiratory infections
Tag(s): Clinical

Chairs: Eva Polverino (Barcelona, Spain), Onno Akkerman (Groningen, Netherlands), Graham H. Bothamley (London, United Kingdom)
Discussants: Daiana Stolz (Freiburg, Germany), James D. Chalmers (Dundee (Angus), United Kingdom)

15:30 Case 1 incl. panel discussion and Q&A - Author: T. Ejaz (Pakistan)
Daiana Stolz (Freiburg, Germany)
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)

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)
**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**

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**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

**Chairs:** Maria Molina Molina (Barcelona, Spain), Cormac McCarthy (Dublin 4, Ireland)

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**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

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**Autoimmune Pulmonary Alveolar Proteinosis (aPAP) in Greece: 20 years in progress**

Effrosyni D. Manali (Athens, Greece), Spyros A. Pappiris, Maria Kallieri, Lykourgos Kolilekas, Georgia Papadaki, Emmanouil Verykakis, Georgis Kontonasios, Andriana I Papaioannou, Demosthenes Bourou, Vasiliki Apollonatou, Elvira-Markela Antonogiannaki, Panagiotis Lyberopoulos, Nikolaos Roussakis, Konstantinos Douros, Andrea Schams, Matthias Griese

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**Preclinical studies supporting a first-in-human trial of pulmonary macrophage transplantation therapy of CSF2RA-associated PAP**

Bruce Trapnell (Cincinnati, United States), Paritha Arumugam, Brenna Carey, Lisa Trump-Durbin, Matthew Wessendarp, Takuji Suzuki, Fnu Spoorthi, Yan Ma, Kenjiro Shima, Jennifer Stock, Claudia Chalk, Kathryn Wikenheiser-Brokamp, Carolyn Lutzeke

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**Exploring the prognosis and pathogenesis of secondary pulmonary alveolar proteinosis**

Haruyuki Ishii (Tokyo, Japan), Ryushi Tazawa, Tomohiro Handa, Yoshinori Tanino, Nobutaka Kitamura, Yoshikazu Inoue, Koh Nakata

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**New diagnostic approaches for lymphangioleiomyomatosis (LAM)**

Christoph Lederer (Heidelberg, Germany), Ksztipna Guth, Anikó Bohács, Verena Müller, Michael Kreuter

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**Alveolar fibroblast activation and epithelial injury/repair in pulmonary lymphangioleiomyomatosis (LAM)**

Vera Krymskaya (Philadelphia, United States), Kseniya Obraztsova, Alexander Mukhitov, Ryan Rue, Akansha Goel, Apoorva Babu, Michael Morley, Edward Morrissey, 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 Boursin, 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 Wyuts, Mario Aguiar, Nicole M Armstrong, Andreas Jessel, Monika 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 Vicens-Zygmunt, Claudia Valenzuela, Rosalía Laporta, Juan Rigueral, Karina Portillo, Paloma Millan, Eva Balcells, Diana Badenes, Santiago Bolivar, Jose Antonio Rodríguez-Portal, Laura Tomás, Koral Fernández De Roitegi, Jacobo Sellarés, Diego Castillo, Jaime Bordas, Yasmina Gutierrez-Rodriguez, Paloma Caballero, Javier Alarcon, Christian Tebè, Sebastian 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

Yellow 1+2+3 Session 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
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
AbdelKebir Sabil (Paris, France), Claire Launois, Wojciech Trzepizur, François Goupil, Thierry Pigeanne, Sandrine Launois, Laurene Leclair-Visonneau, Philippe Masson, Aecya Bizieux-Thaminy, Dany Jaffuel, Sébastien Bailly, Frédéric Gagnadoux

CPAP Reduces Circulating Endothelial Growth Factor Levels in Patients with Coronary Artery Disease and Obstructive Sleep Apnoea: The RICCADSA Trial
Yeliz Celik (İstanbul, Turkey), Sanja Jelic, Afrouz Behboudi, Daniel J. Gottlieb, Susan Redline, Yuksel 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: Fixied is more effective than adapted pressure. A randomised, parallel clinical trial.
Renaud Tamisier (Grenoble, France), Erika Treptow, Sebastien Bailly, Marie Destors, Sebastien Baillieux, Rita Clin, Maelle Guellerin, Audrey Guerrarche, Patrick Levy, Jean Louis Pépin

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 (Lleida, Spain), Esther Gracia-Lavedan, Anna García-Altès, Elisenda Martinez Carbonell, Manuel Sánchez-De-La-Torre, Ferran Barbé

REM Sleep Less Than 30 Minutes Predicts Less CPAP Use in Adults with Coronary Artery Disease and Obstructive Sleep Apnoea
Baran Balcan (İstanbul, Turkey), Patrick J Strollo Jr, Yuksel Peker
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 Loffler, Richard Woodman, Robert Adams, Gonzalo Labarca, Jorge Dreyse, Christine Eulenburg, Erik Thunström, Helena Glantz, Yüksel Peker, Craig Anderson, Doug Mcevoy, Ferran Barbé

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 (Bagneux, France), David Rudilla, Hélène Pasche, Daniëlle C Zammit, Pablo Lázaro Y De Mercado, Pedro Landete Rodriguez

Normalized hypercapnia is a strong predictor of survival in patients with home mechanical ventilation (HMV) - the population-based DISCOVERY study
Andreas Palm (Uppsala, Sweden), Ludger Grote, Össur Emilsson, Karin Ersson, Mirjam Ljunggren, Josefín Sundh, Magnus Ekstrom

Discussion and Q&A

Brown 1+2 Session 15:45 - 17:00

Oral presentation: From lung cancer screening to early diagnosis
Disease(s): Thoracic oncology
Method(s): General respiratory patient care Imaging Public health Epidemiology Surgery Pulmonary function testing Cell and molecular biology Endoscopy and interventional pulmonology

Late Breaking Abstract - Endobronchial ultrasound in diagnosing and staging of lung cancer by 22G TBNB versus regular 22G TBNA needles: a randomized clinical trial
Antonio Moretti (Gonzaga, Italy), Tess Kramer, Jolanda C Kuijvenhoven, Jan Von Der Thüsen, Daniëlle Cohen, Artur Szlubowski, Maciej Gnass, Maarten K Ninaber, Bart Hoppe, Rocco Trisolini, Zuzana Sestakova, Jiri Votruba, Daniël A Korevaar, Peter I Bonta, Jouke T Annema

Lung cancer screening by Low-Dose CT scan in France: final results of the DEP’K80 study after three rounds
Olivier Leleu (Abbeville Cedex, France), Nicolas Storme, Damien Basille, Marianne Auquier, Vincent Jounieaux, Sebastien Couraud

Exhaled breath analysis optimizes nodule management in a lung cancer screening program.
Kathleen Zwijsen (Wilrijk, Belgium), Reimier Wener, Eline Janssens, Eline Schillebeeckx, Elly Marcq, Jo Raskin, Jan P. Van Meerbeek, Annemieke Snoeckx, Annelies Janssens, Kevin Lamote

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 Prendecki, Amyn Bhamani, John Mccabe, Jonathan Teague, Anne-Marie Hacker, Laura Farrelly, Kylie Gayerton, Anand Devaraj, Arjun Nair, Allan Hackshaw, Sam Janes

Fluid-specific miRNA-based signatures for lung cancer screening
Giovanna Casagrande (Barretos, Brazil), Rodrigo Chiariantano, Alexia Polo, Ana Carolina Laus, Isabella Tegami, Eduardo Cabral, Angela Filatieri, Rachid Oliveira, Luciane Sussuchi Da Silva, Rui Reis, Leticia Leal

Validation of the Danish Lung Cancer Registry
Anja Gouliaev (Viby J, Denmark), Torben Riis Rasmussen, Niels Lyhne Christensen

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 Reis, Leticia Ferro Leal

Determinants of Therapeutic Sensitivity in EGFR-Driven Lung Cancer
Giorgia Foggetti (Milan, Italy), Mariana Do Carmo, Francisco Expósito, Camila Robles-Oteiza, Hongchen Cai, Virginia Guzzloni, Federica Pedica, Gianluigi Arrigoni, Claudio Doglioni, Alessandra Bulotta, Stefano Cascini, Giulia Veronesi, Giampiero Negri, Monte M. Winslow, Katerina Politi

Integrating artificial intelligence tool in multidisciplinary tumor board for predicting complications after lung cancer surgery
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Gabriele Maffèis, Andrea Cara, Giulia Sedda, Lorenzo Spaggiari

The role of crural diaphragm density in respiratory complications after VATS lobectomy: a retrospective analysis
Alice Bellini (Forli, Italy), Antonio Vizzuso, Sara Sterrantino, Eleonora Antognoni, Angelica Amatulli, Beatrice Sirili, Roland Barbante, Edoardo Raffaeli, Angelo Paolo Ciarrocchi, Sara Piciucchi, Emanuela Giampalma, Franco Stella
**Brown 3**

**Session** 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

**Chairs:** Guido Vagheggi (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

**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

**Blood-flow restricted cycling maximizes leg muscle effort with less ventilatory work compared to work-matched free-flow exercise: A randomized crossover study**

Manuel Kuhn (Zurich, Switzerland), Christian F. Clarenbach, Adrian Kläy, Thomas Radtke, Sarah R. Haile, Noriane A. Sievi, Dario Kohlbrenner

**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

**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

**Muscle mRNA and protein responses to aerobic exercise training (AET) in COPD and health**

Lorna Latimer (Rugby (Warwickshire), United Kingdom), Despina Constantin, Linzy Houchen-Wolloff, Bhavesh Popat, Dumitrul Constantin-Teodosiu, Charlotte Bolton, Michael Steiner, Paul Greenhaff

**Effects of spray cryotherapy on cough receptors and airway microenvironment in a canine model of chronic bronchitis**

Long liang (Shanghai, China)

**Nasal stimulation with L-menthol alleviates multidimensional breathlessness in patients with interstitial lung disease: a randomized controlled trial**

Masashi Kanzaki (Kawagoe, Japan), Kunihiro Terada, Satoru Ebihara

**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

**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

**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

**Discussion and Q&A**

**PS-12 in poster area**

**Session** 16:00 - 17:30

**Poster session: The bugs in lung transplantation**

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

**Method(s):** Pulmonary function testing, Transplantation, Cell and molecular biology, Endoscopy and interventional pulmonology, Imaging, Respiratory intensive care

**Chairs:** Vicky Gerovasili (Rickmansworth, United Kingdom)

**Microbiological surveillance after lung transplant: focus on fungi**

Irene Tomarelli (milano, Italy), Filippo Maraz, Valeria Rossetti, Letizia Corinna Morlacchi, Ilaria Righi, Davide Tosi, Marco Mantero, Mario Nosotti, Francesco Blasi
The pleural microbiome in lung transplant recipients and non-transplant patients
Carlo Mümmler (München, Germany), Michael Gerckens, Silvia Gschwendtner, Diego Kauffmann-Guerrero, Katrin Milger, Jürgen Behr, Nikolaus Kneidinger

Treatment of fungal infections in lung transplant recipients: is standard dose adjustment of tacrolimus sufficient?
Tanja Zijp (Groningen, Netherlands), Fadia Hadi, Stephan Bakker, Job Van Boven, Tji Gan, Daan Touw

Transmission and persistent SARS-CoV-2 infection in a lung transplant recipient with Molnupiravir-induced hypermutation
Bjoern Frye (Freiburg, Germany), Ina Hettich, Vivien Karl, Lena Jaki, Daiana Stolz, Maike Hofmann, Jonas Fuchs

Lung Transplantation for COVID-19-Related Respiratory Failure: 1-year outcome of 29 patients
Zsófia Kovacs (Wien, Austria), Peter Jaksh, Konrad Hötze, Gabriella Muraközy

Use of Favipiravir as a Broad-Spectrum Virostatic Drug in Lung Transplant Recipients
Andrea Zajacova (Prague, Czech Republic), Eliska Dvorackova, Luis Fernando Casas-Mendez, Ales Brix, Tereza Kotowski, Jan Havlin, Robert Lischke, Libor Fila, Petr Hubacek

Program cell death 1 (PD1) and program cell death ligand 1 (PDL1) expression in pulmonary aspergillosis with and without SARS-CoV-2 virus infection.
Shiang-Fen Huang (Taipei, Taiwan), Kun-Ta Chou, Yu-Chi Huang, Hao-Chia Lin, Ping-Feng Wu

Plasma virome dynamics after lung transplantation
Victoria Ruiz (Barcelona, Spain), Vicente Pérez-Brocal, Meritxell Boada-Pérez, Berta Saez, Ibai Los-Arcos, Maria Deu, Marta Zapata-Ortega, Judit Sacanell, Alba Santiago, Andrés Moya, Victor Monforte, Cristina Berastegui, Susana Gomez-Olles

The impact of COVID-19 on long term fungal infection in lung transplant recipients: a single-center retrospective study
Brice Touilloux (Fribourg, Switzerland), Matthais Papadimitriou-Olivgeris, Cédric Bongard, Nahal Mansouri, Foteini Ioakeim, John-David Aubert, Oriol Manuel, Angela Koukoula, Alessio Casutt

Late Breaking Abstract - Bedside non-invasive radiation-free lung ventilation/perfusion mapping by electrical impedance tomography in lung transplant recipients
Vittorio Scaravilli (MILAN, Italy), Jacopo Fumagalli, Valentina Cattaneo, Francesco Damarco, Letizia Morlacchi, Giacomo Grasselli

Late Breaking Abstract - Speckle-tracking right ventricle free wall longitudinal strain: a new non-invasive highly sensitive tool for screening right ventricle function in lung transplant candidates
Paolo Meani (Milan, Italy), Vittorio Scaravilli, Silvia Scansani, Letizia Morlacchi, Valeria Rossetti, Marco Vicenzi, Gloria Turconi, Valeria Musso, Amedeo Guzzardella, Mario Nosotti, Francesco Blasi, Giacomo Grasselli

Late Breaking Abstract - High burden of early complications in outcome of lung transplantation for non-cystic fibrosis bronchiectasis

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

Difference in diagnostic accuracy of several respiratory muscle assessments to predict weaning outcomes: sensitivity analyses (SA) of a systematic review and meta-analysis
Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Jan Verbakel, Yasir Qaiser Choudhari, Débora Ribeiro Campos, Greet Hermans, Rik Gosselink, Daniel Langer

Inspiratory effort and activation of extradiaphragmatic inspiratory muscles in a difficult to wean (DTW) patient during different breathing conditions.
Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Beatrix Clerckx, Jan Muller, Greet Hermans, Rik Gosselink, Daniel Langer

PS-14 in poster area
Session 16:00 - 17:30
Poster session: Update on respiratory physiotherapy in different perspectives of the field

Disease(s): Sleep and breathing disorders, Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care
Pulmonary vascular diseases

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

Chairs: Agnieszka Lewko (Coventry, United Kingdom), Christian Osadnik (Melbourne, Australia)

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Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Beatrix Clerckx, Jan Muller, Greet Hermans, Rik Gosselink, Daniel Langer
Investigation of psychometric properties of De-Morton Mobility Index in the intensive care survivors
Büsra Turgut (Izmir, Turkey), Ilknur Naz, Ozlem Edipoglu, Cenk Kiraklı

Tissue oxygen saturation of quadriceps muscle for critically ill patients receiving mechanical ventilation
Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Ryuji Sugiyama, Yusuke Nagae, Yuichi Tawara, Masashi Shiraishi, Yuji Higashimoto, Hironori Shigeoka

Investigation of the relationship between respiratory muscle strength and endurance capacity in liver cirrhosis: a pilot study
Bilge Taşkın (Ankara, Turkey), Naciye Vardar-Yağlı, Melda Saglam, Onur Keskin, Ahmet Bülent Doğru

Relationship between respiratory muscle strength and functional capacity in patients undergoing oncological abdominal surgery
Fatma Rümeysa Kasap (Ankara, Turkey), Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Ebru Calik Kutukcu, Derya Karakoc, Erhan Hamaloglu

National observational study of first mobilization after cardiac surgery
Elisabeth Westerdahl (Örebro, Sweden), Johanna Lilliecrona, Monika Fagevik Olsén

Impact of cancer treatment on physical performance in early-stage non-small cell lung cancer
Kirsten Quadflieg (Hasselt, Belgium), Eva Arens, Sarah Haesevoets, Fien Hermans, Maarten Criel, Marc Daenen, David Rutten, Michiel Thomeer, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Eric Derom, Heleen Demeyer, Chris Burtin

Symptoms experienced by people with lung, head and neck cancer during an exercise training program delivered as a complementary treatment to usual care

Objectively measured physical activity and clinical correlates after pulmonary embolism
Stacey Haukeland-Parker (Moss, Norway), Oyvind Jervan, Waleed Ghanima, Martijn A. Spruit, Mazdak Tavoly, Jostein Gleditsch, Hege Holmo Johannessen

Heart Rate Recovery and Chronotropic Response on Exercise in Colorectal Cancer Survivors
Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar-Yağlı, Melda Saglam, Ebru Calik Kutukcu, Deniz Inal Ince, Saadettin Kilickap

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

Patient experience with fully remote inspiratory muscle training device
Martin Dvořáček (Bouzov, Czech Republic), Pavla Horová

Investigation of respiratory muscle strength and pulmonary functions in patients with neuropsychiatric disorder
Furkan Özdemir (Ankara, Turkey), Naciye Vardar Yagli, Betül Tufanoğlu, Belda Çağlayan

Dyspnea impacts right emotional cerebral blood flow
Kazuhiro Kimpara (hamamatsu, Japan), Shinichi Arizono, Yuichi Tawara, Natsumi Tanaka, Maki Takayama, Daiki Takahashi

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

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 Je Taylor

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

Respiratory Functions, Respiratory Muscle Strength, and Postural Abnormalities in Patients with Temporomandibular Joint Dysfunction
Seda Saka (İstanbul, Turkey), Musab Deniz, Deniz Tuncer

PS-18 in poster area
Poster session: New tools for risk assessment in the interstitial lung disease setting
**Disease(s):** Interstitial lung diseases

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

**Chairs:** Diego Castillo Villegas (Barcelona, Spain)

**PF-ILD and PPF criteria as predictors for mortality in RA-ILD**
Phuong Phuong Diep (Oslo, Norway), Emily Langballe, Asad Chaudhary, Torhild Garen, Are Martin Holm, Henrik Mangseth, Øyvind Molberg, Anna-Maria Hoffmann-Vold, Michael T. Durheim

**RA-ILD – new insights into disease burden from an international patient survey**
Michael Kreuter (Heidelberg, Germany), Katerina Antoniou, Jerome Avouac, Elisabeth Bendstrup, Graham Brown(+), Ivan Castellvi, Santos Castaño, Vincent Cottin, Bruno Crestani, Philippe Dieude, Liam Galvin, Klaus Geissler, Clive Green, Joseph Jacob, Steve Jones, Andreas Krause, Preston Long, Britta Krause, Erika Mosor, Toby M. Maher, Polina Pehelnikova, Jef Van Rompay, Nelleke Tak, Jeska De Vries-Bouwstra, Claudia Valenzuela, Marlies Wijsenbeek, Anna Maria Hoffmann-Vold

**Screening for ILD in RA: a survey of 1132 patients with RA**

**Interstitial lung disease in connective tissue disease: data from an Italian Multidisciplinary Unit**
Alberto Bracciali (Prato, Italy), Sara Torracchi, Elisabetta Rosi, Matteo Drigo, Rubina Giulia Girolamo, Francesco Bonomi, Federico Lavorini, Serena Guiducci, Sara Tomassetti

**Clinical score composite of DLCO, mMRC, and 6-minute walking distance provides prognostic value in patients with fibrotic lung disease: A Prospective observational Study**
Pin-Kuei Fu (Taiouchang, Taiwan), Yu-Wan Liao

**Risk factors for SSc-ILD progression using the new PPF guideline and INBUILD PF-ILD criteria**
Oliver Distler (Zurich, Switzerland), Anna-Maria Hoffmann-Vold, Liubov Petelyska, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkekjaer, Cathrine Brunborg, Cosmin Bruni, Phuong Phuong Diep, Ruscandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtvedt, Carima Mihai, Øyvind Molberg

**ILD associated with systemic sclerosis: predisposing factors for progressive fibrosing ILD**
Shesta Ramjug (Altrincham, United Kingdom), Christopher Markus, Jennifer Helm, Hayley Fox, Muditha Samaranayaka, Michael Hughes

**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

**Factors prognostic of rapid progression of systemic sclerosis-associated interstitial lung disease (SSc-ILD)**
Oliver Distler (Zurich, Switzerland), Jérôme Avouac, Anna-Maria Hoffmann-Vold, Vanessa Smith, Gerrit Toenges, Margarida Alves, Masataza Kiuwana

**The Feasibility of Home Spirometry and Oximetry Monitoring In Patients With Interstitial Lung Disease**
Wan Lin Ng (Dublin, Ireland), Anja Schweikert, Rebecca Borton, Donough Howard, Laura Durcan, Killian Hurley

**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 Midtvedt, Øyvind Molberg, Trond Mogens Aalokken, Michael Thomas Durheim, Oliver Distler, Anna-Maria Hoffmann-Vold

**Decline in BMI is a predictor of functional progression in pulmonary fibrosis associated with connective tissue disease**
Alexandra Nagy (Budapest, Hungary), Bernadett Má, Veronika Müller

**Living with chronic cough: experiences, burden and management in ILD – a qualitative Study**
Shirley Quach (Concord, Canada), Renata Mancopex, Dina Brooks, Ana Oliveira

**Argentine registry of autoimmune interstitial lung disease: EPIMAR 2 baseline data**
Juan Ignacio Enghelmayr (Ciudad Autónoma Buenos Aires, Argentina), Silvia Quadrelli, Norma Naval, Patricia Aruj, Viviana Moyano, Adrian Gaser, Maria Laura Alberti, Santiago Auteri, Soledad Altube, Javier Abdala, Brenda Varela, Maria Otaola, Lilian Caponi, Gabriela Tabaj, Luciana Molinari, Federico Zenon, Eugenia Perticone, Joaquín Maritano, Marcela Usandivars, Fabian Caro, Matias Castro, Beatriz Gil, Fernando Piumatti, Javier Sebastiani, Diana Lancellotti, Federico Campins, Diego Gofredo, Antonella Garurra, Gabriela Manonelles, Jorge Garcia Gonzalez, German Arce, Raul Lisanti, Silvia Del Valle Escotrin, Paula Gonzalez, Francisco Paulin, Florencia Vivero
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

Malaysian real-world data to describe progressive pulmonary fibrosis (PPF) in a clinical setting
Syazatul Syakirin Sirol Aflah (Kuala Lumpur, Malaysia), Noraishah Sulaiman, Mohd Syahin Shahira Lilah, Ming Yi Khoo, Wooi Leong Leow

The natural history of interstitial pneumonia with autoimmune features compared to connective tissue disease-associated interstitial lung disease – prospective single-centre study preliminary results
Ewa Miadlikowska (Łódź, Poland), Joanna Miłkowska-Dymanowska, Adam Jerzy Bialas, Wojciech Jerzy Piotrowski

Late Breaking Abstract - AI-powered decision support helps pulmonologists to diagnose ILD more accurately.
Julie Maes (Leuven, Belgium), Paul Desbordes, Karolien Van Orshoven, Maarten De Vos, Markus Steinwender, Erich Helfenstein, Corina Marginean, Nicolas Henzi, Peter Cerkl, Patrick Heeb, Gianluca Calderari, Paul Boetticher, Bernhard Baumgartner, Daiana Stolz, Mariola Simon, Daniela Gompelmann, Wim Janssens, Marko Topalovic

Late Breaking Abstract - Characterization of high responders in the phase 2a IPF AIR trial of C21 using baseline quantitative CT image analysis
Elliott Bussell (Cambridge, United Kingdom), Rohit Batta, Elin Rosendahl, Muhunthan Thillai, Alessandro Ruggiero, Thomas Bengtsson, Cecilia Ganslandt, Philip Molyneaux, Toby Maher

Late Breaking Abstract - Inhaled pirfenidone (AP01) forced vital capacity (FVC) data from the ATLAS study vs placebo from 3 historical idiopathic pulmonary fibrosis (IPF) randomised controlled trials (RCTs)
Nazia Chaudhuri (Limavady, United Kingdom), Lisa Lancaster, Scott Palmer, Peter George, Felix Woodhead, Lyn Baranowski, Deepthi Nair, Andrey Pavlov, Colin Reisner

PS-19 in poster area: Poster session: Pulmonary hypertension in lung disease and hypoxia

Session 16:00 - 17:30

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

Chairs: Deimante Hoppenot (Kaunas, Lithuania), Da-Hee Park (Hannover, Germany)

PH-ILD management and unmet need in Europe: a clinician survey

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, Christina Gorges, Irene Lang

Improved survival after treatment with pulmonary vasodilator therapies in patients with sarcoidosis-associated pulmonary hypertension: results from an international registry
Laura Price (London, United Kingdom), Vasilis Kouranos, Robert Baughman, Chloe Bloom, Oksan Slobin, Steven Nathan, Rohit Gupta, Colin Mccabe, Chinthaka Samarayake, 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

Artificial Intelligence and Computed Tomography to improve quantification and prognostication of lung disease in precapillary pulmonary hypertension
Krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Liam Delany, Samer Alabed, Smitha Rajaram, Catherine Hill, Christopher Johns, Alex Rothman, Roger Thompson, Jim Wild, Robin Condliffe, David Kiely, Andrew Swift

Reduced pulmonary vascular density in severe pulmonary hypertension associated with chronic lung disease
Agustin Roberto Garcia (BARCELONA, Spain), Iván Vollmer Torrubiano, Isabel Blanco, Ruben San José Estepar, Diego Andrés Rodríguez Chiradía, Clara Martín Ontiuyelo, Manuel Lopez Meseguer, Pietro Nardelli, Fernando Hernandez Gonzales, Jesus Riba, Adelaïda Bosacoma Armora, Xavier Pomares Amigo, Salud Santos Perez, Maria Molina Molina, Jacobo Sellares Torres, Farbod N Rahaghi, Raul San Jose Estepar, Joan Albert Barberà

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

Artificial intelligence to detect pulmonary hypertension in idiopathic pulmonary fibrosis: Study design
Alexandra Arvanitaki (London, United Kingdom), Gerhard Paul Diller, Bhashkar Mukherjee, Alexandre Lawrence, Vaslis Kouranos, Thomas Semple, Wei Li, Natali Chung, Phillip Marino, Surinder Birring, Colm Mccabe, Michael Gatzoulis, Laura Price, John Wort

Use of pulmonary vasodilator therapy in anti-synthetase syndrome-associated pulmonary hypertension
Thomas Mason (London, United Kingdom), Chinthaka Samaranayake, Colm Mccabe, Kostas Dimopoulos, Vaslis 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, 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, Jimming 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 Negigowda (SECUNDERABAD, India), Vijil Rahulan, Moiz Lalani, Owais 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, Yasuhiko Yamano, 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 Martín Ontiuyelo, Elena Gimeno Santos, Ana Ramirez, Anna Sardine, Joan Albert Barberà

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 Agustin Rodriguez Chiaradia (Barcelona, Spain), Lucilla Piccari, Marta Arjona, Virginia Pérez-González, Isabel Blanco, Gregorio Pérez-Péñate, Juan Antonio Domingo, Roberto Del Pozo, Ernest Sala, Raquel López, Xavier Pomares, Amaya Martínez, Cristina Sabater, Alberto García, Agueda Artenetxe, Leyre Chasco, Salud Santos, Andrés Tenes, María Asunción Nieto, Luis Jara-Palomas, Diego Rodriguez

Pulmonary Hypertension International Survey of Health Impacts (PHISH): a global patient questionnaire
Joseph Newman (Cambridge, United Kingdom), Isla Sanderman, Milicent Stone, Gergy 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 Kandar, Kevin Carson, Oliver Watkinson, Daniel Augustine, John Graby, Sarah Skeoch, Gerry Coghlan, Rob Mackenzie Ross, John Pauling, Amanda Mackenzie, Jay Suntharalingam

Correlations between lung injury and peripheral vascular manifestations in patients with systemic sclerosis: a preliminary study
Barbara Ruaro (Trieste, Italy), Paola Confolanier, Riccardo Pozzan, Stefano Tavano, Chiara Bozzi, Selene Lerda, Marco Confolanier, Francesco Salton

PS-9 in poster area Session 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
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
Jinping Zheng (Guangzhou (Guangdong), China), Yun Li, Fuqiang Wen, Qianli Ma, Rongchang Chen, Yongchang Sun, Tiantian Liu, Chenjuan Gu, Shuling Hu, Jie Song, Chris Compton, Nanshan Zhong, Paul Jones

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, Shuichi 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 (Wien, Austria), Miranda Kirby, Robab Breyer-Kohansal, Emiel F M Wouters, Wan Tan

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
Max 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), Emiel 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 airflow responsiveness in patients with asthma
Nina Trepic (Novi Sad, Republic of Serbia), Marko Nemet, Ivan Kopitovici, Marija Vukoja

Bayesian modelling of combined FEV1 and FVC vital lung function trajectories: relationship with airflow obstruction and PRISm
Núria Olvera Ocaña (Barcelona, Spain), Alvar Agusti, James Ross, Rosa Faner

Detection of Small Airway Disease with Oscillometry in Asthmatics
Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Dellaca, Owat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffers, Charles G. Irvin, Robab Breyer-Kohansal

Association of a polygenic risk score for chronic obstructive pulmonary disease with lung function across the lifespan

Patient attitudes towards digital peak flow monitoring in asthma
Sachin Ananth (London, United Kingdom), Serena Alpi, Thomas Antallffy

Relationship between impulse oscillometry and spirometry parameters in adults with pulmonary obstructive diseases
Marta Martín Lana (Zaragoza, Spain), Beatriz Herrero Cortina, Guillermo Samuel Loscertales Vacas, Ana García Esteban, Xunxiao Lin, Lucia Elosua Prats, Patricia Ihiguz De Heredia Monforte, Jorge Luis Hurtado Ortega, Elena Borobia Irache, Ana Cristina Aguelo Velilla

Diversity of functional impairments in patients with asthma, COPD, ACO, and cystic fibrosis (CF) assessed by whole-body plethysmography and spirometry
Richard Kraemer, Florenty Baty, Hans-Jürgen Smith, Stefan Minder, Sabina Gallati, Martin H. Brutsche, Heinrich Matthys
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

Comparison of spirometry and both spectral and intra-breath oscilometry for the prediction COPD symptoms
Paolo Medina-Iglesias (Montreal, Canada), Hugo Morin, Carol Artico, Zoltan Hantos, Ronald Dandurand

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 Rubio, Rafael Pesquera Criado, Daniel López Padilla, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu

Sharing recruitment sites with a precision-medicine based study
Anel Mahmutovic (Mölndal, Sweden), Andrew Harper, Guillaume Desachy, John Tillinghast, Jason Cooper

**PS-2 in poster area**

**Session** 16:00 - 17:30

**Poster session: COVID-19, infectious and interstitial pulmonary diseases from a primary care perspective**

**Disease(s):** Interstitial lung diseases, Airway diseases, Respiratory critical care, Pulmonary vascular diseases, Thoracic oncology, Sleep and breathing disorders

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

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

**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 MATERNAL AGE OF FIRST BIRTH AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN**
Ingrid Guerra Azevedo (São paulo, Brazil), Saionara Maria Aires Aires Da Câmara, Maria Do Socorro Luna Cruz, Mayra Quintana Villarroel, Álvaro Campos Cavalcanti Maciel, Elizabel De S. Ramalho Viana

**AI models for respiratory diseases from spirometry alone: validation based on UK Biobank**
Julie Maes (Leuven, Belgium), Ahmed Elmahy, 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, Ethaar El-Emir, Jennifer Harvey, Elizabeth Fleming, Ingram Karen, George Edwards, Timothy Jenkins, Gillian Doé, 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

**BETA-LACTAMASE ACTIVITY IS A BIOMARKER FOR THE PREDICTION OF THE EFFICACY OF ANTIMICROBIAL THERAPY.**
Farkhod Mukhsinov (Tashkent, Uzbekistan), Irina Liverko

**Pulmonary embolism during tuberculosis: clinical features and outcomes**
Tarak Cherif (Ariana, Tunisia), Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Soumaya Ben Saad, Fatma Tritar

**COVID-19 pandemic: challenges, facts and risks of antibiotic resistance**
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova

**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

**Impact of post-covid-19 condition on health and activities of daily living: a population-based cohort study**
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), Arielle Haagsma, Rafaela Bernardelli, Bruno Pedrazzani, Karin Storrier, Nayanme Oliveina, Luisa Abbott, Maria Leticia Tebet, Maria Fernanda Vieira, Cristina Baena

Long Covid (LC) is still unrecognized in Greece. A barrier to adequate treatment.
Paraskevi Katsaounou (Athens, Greece), Marthe-Spyridoula Katsarou, Archontoula Antonoglou, Antonis Kontaxakis, Ioanna Kotsamidi, Vassiliki Vakouftsi, Maria Saroglou, Helen Iasonidou

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

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

Possible changes in diagnoses before and during Covid-19 with focus on the respiratory tract
Pia Lindberg (Tysrös, Sweden), Seika Lee, Gunnar Ljunggren, Asa Wheelock, Axel Carlsson

Development of patient resources for chronic breathlessness: Needs analysis
Anthony Paulo Sunjaya (Sydney, Australia), Allison Martin, Claire Arnott, Guy Marks, Christine Jenkins

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. Camiñã, Paolo Hilado

The association of SpO2/FiO2 (SF) ratio with the chest CT severity score (CTSS) in adult COVID-19 patients admitted in a tertiary hospital in Manila, Philippines.
PAOLO HILADO (PAVIA, Philippines), Jennylyn Go

PS-15 in poster area Session 16:00 - 17:30
Poster session: COVID-19 diagnostics and pathogenesis

Disease(s): Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s): Epidemiology, Public health, General respiratory patient care, Imaging, Pulmonary function testing, Cell and molecular biology, Respiratory intensive care

Chairs: Mattia Nigro (Opera (MI), Italy), Dumitru Chesov (Chisinau, Republic of Moldova)

Breath of Health: Spectroscopy Breath Test for the Detection of SARS-CoV-2
Dan Padawer (Jerusalem, Israel), Mutaz Karameh, Abed Qadan, Aria Laor, Zvi G Fridlender

Role of Artificial-Intelligence Powered Digital-Health in Reducing Strain on Health-Care-System: First of Its Kind experience in COVID19-Pandemic.
Aman Ahuja (Vellore, India), Pawan Singh, Drhuva Chaudhry

PCR PERFORMANCE FOR SARS-CoV-2 PRIOR TO RESPIRATORY FUNCTIONAL TESTS AND THE RELATIONSHIP WITH CONTAGION RATES.
Maria Zuñ Moreno (Lleida, Spain), Faty B.A. Seck-Mboup, Sally Santisteve, Maria Aguïlã, Mar Malla-Bañeres, Iván D. Benítez, Rosa Sarrat, Adriana Sabaté, Adriana Fulga, Clara Gort-Paniello, Ferrán Barbé, Jessica González

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

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 Mlne, Rachel L. Eddy, Tara Stach, Chen Xi Yang, Xuan Li, Chung Yan Cheung, Julia Shun-Wei Yang, Janice M. Leung, Don D. Sin

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

Omicron BA.5 - 5 days of isolation during hospital admission, is it enough?
Ana Rita Ribeiro (Ansião, Portugal), Cátia Saraiva, Marta Domingos, Daniela Louro, Domitília Faria
Risk factors for COVID-19: A test-negative case-control study
Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yngvar Tveten, Harald Reiso, Carina Thilesen, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Møller Fell

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, Juunn Liang Tan, Chong-Kin Liam

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, Nenra Abdelkader, Nebih Mounir, Sebah Hamza

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

Post COVID-19 HRCT features related to inpatient ward therapy history: A preliminary study
Laahrsa Madison (Jakarta, Indonesia), Dianiati Kusumo Sutoyo, Fanny Fachrucha, Aziza Ghanie Icksan

Clinical epidemiological study of hospitalized patients with severe COVID-19 – current data
Elena Borissova (Pleven, Bulgaria), Snejanka Ivankovska, Plamen Pavlov, Pavлина Glogovska

Healthcare associated infections on a respiratory ward in Athens during the Covid-19 pandemic
Iris-Theodora Vlachantoni (Athens, Greece), Romina Chatzipetrou, Anastasia Levounets, Ierini Skountou, Andrea Kyriacou, Lamprini Vlassi, Chrysa Kontogianni, Konstantinos Samitas, Zafeiris Sardelis, Evangelos Markozannes, Theoplasti Grigoratou, Eleftherios Zervas, Lykourgou Kolilekas

Validity and reliability evidence of Fear of COVID-19 Scale in Greek people with Chronic Obstructive Pulmonary Disease.
Andreas Daskalakis (N. Smyrni - Athens, Greece), Stavroula Giannoulaki, Irini Patsaki, Maria Moutzouri, George Koumantakis, Alkaterini Hantotou, Afroditi Evangelodimou, Irini Grammatopoulou

Lung ultrasonography in post-COVID-19 follow-up in correlation with chest computed tomography.
Katarzyna Zimna (Warszawa, Poland), Małgorzata Sobiecka, Dorota Wyrostkiewicz, Monika Szturmowicz, Witold Tomkowski

Late Breaking Abstract - Change in post-COVID-19 long term symptoms after use of intranasal chlorpheniramine during the acute phase: Inquiry after two randomized controlled trials
Franck Rahaghi (Weston, United States), Mari Tesch, Farbod Rahaghi, Fernando Valerio-Pascua

Late Breaking Abstract - Association with changes in pulmonary artery diameters and outcomes before, during and after COVID-19 hospitalization: Retrospective Study
Aybuke Selcuk (Beylikdüzü, Turkey), Derya Kocakaya, Şehnaz Olgun Yildizeli, Sait Karakurt

Late Breaking Abstract - Increased SARS-CoV-2 infection in asthmatic primary bronchial epithelial cells defined with single cell RNA-sequencing
Matt Johansen (Miranda (NSW), Australia), Sobia Idrrees, Fia Boedijono, Stefan Miemczyk, Duc Nguyen, Kristy Nichol, Peter Wark, Ailen Faiz, Philip Hansbro

Late Breaking Abstract - Host response changes and phenotypes in lymphopenic COVID-19 patients and their association with mortality
Erik Michels (Amsterdam, Netherlands), Brent Appelman, Justin De Brabander, Rombout Van Amstel, Christine Van Linge, Osoul Chouchane, Tom Reijnders, Alex Schuurman, Titia Sulzer, Augustijn Klarenbeek, Renée Douma, Liewe Bos, W. Joost Wiersinga, Hessel Peters-Sengers, Tom Van Der Poll

PS-11 in poster area
Poster session: Occupational upper and lower airway diseases
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, Public health, Pulmonary function testing, Cell and molecular biology, General respiratory patient care, Imaging
Chairs: Sara De Matteis (Cagliari, Italy), Orianne Dumas (Villejuif, France)

Disease-specific mortality related to occupational exposure in Helsinki, Finland
Juuso Jalasto (Helsinki, Finland), Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Anssi Sovijärvi, Päivi Piirilä, Paula Kauppi
Global burden and trends of mortality and disability-adjusted life years for malignant and chronic respiratory disease attributable to occupational exposures, from 1990 to 2019: results from the Global Burden of Disease study 2019
wigdan farah (Rochester, United States), Oluwateniayo Ogunsan, Zhen Wang, Yewande Odeyemi

Mortality associated with occupational exposures among people with small airways obstruction
Valentina Quintero Santofimio (London, United Kingdom), Cosetta Minelli, James Potts, Roel Vermeulen, Hans Kromhout, Ben Knox-Brown, Johanna Feary, Andre F.S Amaral

Household use of cleaning products and asthma control
Emilie PACHECO DA SILVA (Villejuif, France), Raphaëlle Varraso, Anne-Marine Lenzotti, Léopold Fezeu, Guillaume Sit, Pilar Galan, Serge Hereberg, Mathilde Touvier, Christophe Paris, Orianne Dumas, Nicole Le Moual

Household use of irritants and sprayed cleaning products and asthma endotypes
Emilie PACHECO DA SILVA (Villejuif, France), Rachel Nadif, Eddy Dohoukpe, Laurent Orsi, Joane Quentin, Raphaëlle Varraso, Valérie Siroux, Orianne Dumas, Nicole Le Moual

The association of current asthma and exacerbation of asthma with using cleaning, disinfecting, and medical products in healthcare
Paul K. Henneberger (Morgantown, United States), Steven M. Rollins, Michael J. Humann, Xiaoming Liang, Feng-Chiao Su, Mohammed A. Virji

Assessment of small airways by impulse oscillometry in hospital cleaning staff
Bilun Gemicioglu (Istanbul, Turkey), Betül Gültekin, Nejdiye Güngördü, Ilgım Vardaloglu, Kevser Sak

Long-term clinical outcome of irritant-induced asthma
Hille Suojalehto (Helsinki, Finland), Jussi Lantto, Irmeli Lindtröm

Occupational exposures to irritants and asthma in the CONSTANCES Cohort
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 Pilorget, Nicole Le Moual

Zintec coated steel, a cause of occupational asthma in welders
Vicky Moore (Birmingham (West Midlands), United Kingdom), Gareth Walters, Alastair Robertson, Sherwood Burge

Thymic stromal lymphopoietin contributes to ozone-induced pulmonary responses in mice
Hiroki Tashiro (Saga, Japan), Yuki Kurihara, Koichiro Takahashi, Yoshie Konomi, Shinya Kimura, Sueoka-Aragane Naoko

Asthma control in severe asthma and occupational exposures to inhaled asthmagens
Gareth Walters (Birmingham (West Midlands), United Kingdom), Christopher Reilly, Nicole Le Moual, Christopher Huntley, Hanan Hussein, Thirumala Krishna, Adel Mansur

Occupational exposures and asthma control among adults from Northern Finland
Maritta S. Jaakkola (Oulu, Finland), Penpatra Sribaiboonkij, Henna Härkäs-Palmu, Jouni J.K. Jaakkola

Respiratory health among operators working in polymer additive manufacturing
Anna-Carin Olin (Göteborg, Sweden), Ann-Charlotte Åmstrand, Anna Bredberg, Gunilla Runström, Helen Karlsson, Maria Assenhöj, Hatice Koca Akdeve, Häkan Tinnerberg

Long-term indoor shooting exposure of special police forces induces bronchitic reactions – the Berlin Shooting Range Study
Christian Witt (Berlin, Germany), Rudolf Tauber, Dennis Nowak, Andrew Coats, Uta Liebers

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

COPD in a sample of working population
Jordan Minov (Skopje, North Macedonia), Sasho Stoleski, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska

Occupational COPD; ten years’ experience from a UK occupational lung disease reporting scheme
Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), David Fishwick, Loren Zelic, Rheanna Pereira, Laura Byrne, Melanie Carder, Martie Van Tongeren

Correlation between reduced lung attenuation in quantitative CT imaging and lung function trajectory in World Trade Center (WTC) disaster responders
Jonathan Weber (Roslyn, United States), Raúl San José Estépar, John Doucette, Juan Celedón, Rafael E. de la Hoz
Evaluation of Voice Quality in Pulmonary Function Tests Laboratory Technicians
Gökçen Ömeroğlu Şimşek (Izmir, Turkey), Melike Yüksek Yavuz, Neşibe Güngördü

PS-5 in poster area
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

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
Sotirios Zarogiannis (Larisa, Greece), Dimitrios Raptis, Ioannis Lampropoulos, Olga Sinani, Dimitra Siachpazidou, Lamprini Pouliou, Georgia Rapti, Chrysoula Marogianni, Eftychia Kapsalaki, Chaido Pastaka, Foteini Malli, Konstantinos Gourgoulisianis, Georgia Xiromerisiou

Intermittent hypoxia can induce apoptosis of macrophage
Yina Wang (Changsha (Hunan), China), Xiao Xiao, Silei Deng, Jingjie Kuang, Yuanguo Chen, Yayong Li

Intermittent hypoxia up regulates mTOR expression in hepatic macrophages through CX3CL1/CX3CR1
Yina Wang (Changsha (Hunan), China), Silei Deng, Xiao Xiao, Yuanguo Chen, Yayong Li

Tracking of respiratory effort during hypopneas in sleep apnea patients by analysis of energy ratio of breathing sounds using PneaVoX sensor
Martin Glos (Berlin, Germany), Songül Karaca, Jade Vanbuis, Margaux Blanchard, Paria Pourriahi, Meghna Jha, Ingo Fietze, Thomas Penzel

Double-layer electrical impedance tomography can identify upper airway obstruction sites during sleep
Sang-Wook Kim (Jinju, Republic of Korea), Tingting Zhang, Hyoje An, Jinwon Mok, Oh In Kwon, Munbae Lee, Tong In Oh

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 Gauci (Kingswood, Australia), Hazer Khalifa, Donald Lee, David Coulshed, Emily Hibbert, Kaye Foster-Powell, Alison Poulton, Andrew Wellman, Yuanning Luo

The effect of low dose CO2 on sleep quality in healthy subjects
Shanfeng Liang (Guangzhou, China), Dongxiao Lu, Qishan Wei, Bailing He, Luguang Wu, Yingxin Wu, Joerg Steier, Andrew Wellman, Yuanning Luo

Gender transition from female to male as a risk factor for sleep-disordered breathing
Samuel Genzor (Olomouc, Czech Republic), Jan Mizera, Jakub Vaneck, Jan Prasko, Petr Jakubec, Monika Zurkova, Jiri Kufa

Sleep-related breathing disorders before and after bariatric surgery in morbid obese cases
Aylin Pihtili (Istanbul, Turkey), Burak Ucar, Tulin Cagatay, Celik Sumer, Nihat Aksakal, Halim Issever, Kiyan Esen

Obesity and self-reported symptoms as determinants of responses to atomoxetine and aroxybutynin for sleep apnea
Ludovico 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 Rodriguez Menédez, Ina Iordanova Guerassimova, Pablo Lozano Cuesta, Inés Ruiz Álvarez, Juan Francisco Nieves Salceda, Laura Martínez Vega, Maria Rodil Riera, Eduardo Sánchez Vázquez, Isabel Martínez Gozález-Posada, Patricia Alvarez Alvarez, Angela Lanza Martinez, Ramon Fernández Alvarez

Neck structures, risk factor for obstructive sleep apnea
Norbert Wellmann (TIMISOARA, Romania), Alexandru Cătălin Motofelea, Monica Steluţa Marc
Estimating obstructive sleep apnea endotypes from the oxyhemoglobin saturation signal
Ludovico Messineo (Boston, United States), Ali Azarbarzin, Neda Esmaeili, Atqiyu Aishah, Daniel Vena, Gonzalo Labarca, Laura Gell, Hu Wen-Si, 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 Leccisotti, 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), Laelidia Gaspar, Ana Capitão, Alexandra Ferreira Mendes, Claudia Cavadas, Irina S. Moreira, Ana Rita Álvaro

Late Breaking Abstract - Dysanapsis in adult obstructive sleep apnea patients and its association with asthma.
Masood Ur Rasool (HUNTINGDON, United Kingdom), Hina Qaim, Sadiyah Hand

Late Breaking Abstract - Association between obstructive sleep apnea syndrome (OSAS) and QRS duration in women
Derlen Ozgec (nicosia, cyprus), Cenk Conkbayır, Mustafa Akansoy

Comparison of Conventional Clinical and Laboratory Findings with 18F-FDG PET/CT and 68Ga Citrate PET/CT in terms of Diagnostic Utility and Disease Activity Among Sarcoidosis Patients
bahar kubat (İSTANBUL, Turkey), Mehmet Cüneyt Tetikkurt, Haluk Burçak Sayman

CT imaging differences between different Covid-19 strains
Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

CT findings as prediction of long covid
Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

Quantitative CT lung alterations and lung function in COVID-19 associated ARDS: 1-year follow-up
Riccardo Ripamonti (Vimercate, 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, Chiara Milano, Roberta Ciceri, Angela Brancaforte, Marcello Intotero, Paolo Scarpace

Persisting radiological abnormalities following covid-19 are common and correlate with impaired Quality of Life
Hannah Bayes (Glasgow, United Kingdom), Robert Sykes, Andrew J Morrow, Kenneth Mangion, Alex Mcconnachie, Alasdair McIntosh, Giles Roditi, Claire Rooney, Katherine Scott, David Stobo, Colin Berry, Colin Church

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

Computed tomography (CT) characteristics of vanishing lung syndrome in patients after severe COVID-19 pneumonia
Svitlana Opimakh (Kyiv, Ukraine), Viktoria Ignatieva, Mykola Lynnyk, Galyna Gumeniuk, Maryna Polianska, Nataliia Musienko

Multislice CT in the visualisation of thromboembolism of small branches of pulmonary arteries in COVID-19
Lina Zariyova (Astan, Kazakhstan), Elmira Chuvakova, Timur Sarsengaliyev, Manana Peradze, Abay Baigenzhin

Incidentaloma in covid 19
Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković

Medical management strategies in epidemic
Dušan Ivković (Niš, Republic of Serbia), Stevan Ivković, Aleksandar Ivković

CT findings in asymptomatic patients with covid 19
Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković

Post COVID-19 HRCT Thorax sequalae, a one year follow up study
Rajesh Agrawal (Bareilly, India), Rajat Agarwal, Javied Ahmad Malik
Thromboembolic complications during SARS-CoV-2 infection in the elderly
Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub Fehri

Pneumonectomy in the surgery of pulmonary Hydatid cysts: A therapeutic option that is sometimes unavoidable
wifek SAIDANI (Ariana, Tunisia), Kaouther Ben Âmara, Imen Bouassida, Hazem Zribi, Mehdi Abdennadher, Sarra Zairi, Imen Sahnoun, Adel Marghli

Radiation exposure in primary spontaneous pneumothorax patients.
Bart P.C. Hoppe (Leiden, Netherlands), Tijmen J.T. Van Der Wel, Gijs C.M. Van De Ven, Pieter E. Postmus

Changes in lung volumes during bronchoalveolar lavage according to bedside position. Case Series
Ignacio Fernández Ceballos (Buenos Aires, Argentina), Julieta Gonzalez Anaya, Juan Martin Nuñez Silveira, Emilio Steinberg, Lemiker Navarro Rey, Gabriel Elias Vega, Ivan Hueses, Indalecio Carboni Bisso, Marcos Las Heras, Rodrigo Cornejo

Severity and radiological score in nasal polyposis associated with asthma : comparison between asthmatic and non-asthmatic patients
Rim Hammami (Sfax, Tunisia), Souha Kallel, Mohamed Amin Chaabouni, Omar Walha, Najla Bahloul, Sirine Ayedi, Sami Kammoun, Ilhem Darfeddine

Computerized tomography evaluation of pleural effusion before medical thoracoscopy
Filip Popović (Zagreb, Croatia), Marta Koršić, Fran Seiwerth, Sonja Badovinac, Lela Bitar, Marko Jakopović, Miroslav Samaržija

Late Breaking Abstract - CT-based diaphragm analysis to evaluate the diaphragm configuration with increasing COPD severity
Jens Thomas Bakker (GRONINGEN, Netherlands), Jorine E. Hartman, Karin Klooster, David A. Lynch, Marieke C. Van Der Molen, Jean-Paul Charbonnier, Michail Tsiaousis, Rozemarijn Vliegenthart, Dirk-Jan Slebos

Late Breaking Abstract - Deep learning-based outcome prediction in pulmonary fibrosos using synthetic HRCT
Simon Walsh (London, United Kingdom), Xiaodan Xing, John Mackintosh, Lucio Calandriello, Yingying Fang, Shiyi Wang, Sheng Zhang, Yang Nan, Athol Wells, Guang Yang, Tamera Corte

Absolute blood eosinophil counts among 3,763 healthy, asthmatic, and COPD subjects across India.

Revisiting severe asthma definition using electronic health data in UK Biobank for genome-wide association studies
Noemi-Nicole Piga (Leicester, United Kingdom), Michael A Portelli, Glenda Lassi, Ian Sayers, Katherine Fawcett

Treatable trait guided asthma management: biomarker changes and responder analysis
James Fingleton (Wellington, New Zealand), Rob McIachlan, Jenny Sparks, Richard Beasley, Alvar Agusti, Peter G Gibson, Ian Pavord, Jo Hardy, Mark Weatherall, Allie Eathorne, Vanessa M Mcdonald

The impact of smoking history on baseline characteristic in patients with severe asthma in the German Asthma Net (GAN)
Leone Biener (Bonn, Germany), Slagjana Stoshikj, Jonas Brugger, Roland Buhl, Eckhard Hamelmann, Stephanie Korn, Christian Taube, Katrin Milger-Kneidinger, Christian Schulz, Hendrik Suhling, Margret Jandl, Rainer Ehmnn, Olaf Schmidt, Marco Idzko, Dirk Skowasch

The impact of pretreatment blood eosinophilis count (BEC) in the efficacy of Allergen Immunotherapy (AIT)
Antonios Christopoulos (Patras, Greece), Maria-Elpida Christopoulou, Ioannis Christopoulou, Georgios Tsirikos, Panagiota Tsiri, Eva Theohari, Electa Koulousoua, Vasiliki Sotiroplou, Dimitris Komninos, Argyrios Tzouvelekis

Fractional exhaled nitric oxide as a biomarker in patients with uncontrolled asthma
William Busse (Madison, United States), Ian D. Pavord, Michael E. Wechsler, Ignacio J. Davila, Arman Altincatal, Megan Hardin, Xavier Soler, Harry Sacks, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe
The effect of lung emptying on the airway deposition of aerosol drugs
Janos Tamás 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)

BDP/FF FDC protects against bronchospasm induced by PEG, a BNT162b2 COVID-19 vaccine excipient
Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Faciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani

The effect of lung emptying on the breathing parameters characterizing the inhalation of aerosol drugs
Botond Havadói (Budapest, Hungary), Izolda Réti, Norbert Ilyés, Árpád Farkas, Alpár Horváth, Balázs Sánta, Tamás Kovács, Péter Czaun, Gabriella Gálfy

Anti-IL-5/5Ra biologies improve work productivity and activity in severe asthma.
PP Hekking (Rotterdam, Netherlands), Hanna Kuiper - Van Der Valk

Improving access to biologic treatments for patients with severe asthma
Angela Cooper (Stoke on Trent, United Kingdom), Holly Minshall, Elfath Idris

Consistency of Medication Delivery with Breath Actuated Technology when Simulated with Differing Inhalation/Exhalation Ratios
Mark Nagel (London (ON), Canada), Rubina Ali, Cathy Doyle, Jason Suggett

ORBE II study: clinical characteristics and outcomes after treatment with benralizumab according to baseline blood eosinophil count
Alvaro Martinez Mesa (Malaga, Spain), Jose Luis Velasco Garrido, Ismael Garcia Moguel, Carlos Martinez, Ruben Andujar, Carmen Cañete, Rocío Díaz Campos, Loles Arnao, Gabriel Niza, Javier Nuevo, Elisa Luzon Alonso, Alicia Padilla

ORBE II study: clinical characteristics and outcomes after treatment with benralizumab according to smoking status
Carlos Martinez Rivera (Barcelona, Spain), Francisco Casas, Marta Palop, Luis Cassini, Laia Secall, Maria Jose Escarpenter, Javier Nuevo, Elisa Luzon Alonso, Alicia Padilla Galo

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 Martinez Moragón, Andrea Trisán Alonso, Borja Valencia Azcona, Pilar Ausín Herrero, Eugenia Navarrete Rouco, Marta González Sierra, Javier Nuevo Rivero, Elisa Luzón Alonso, Alberto Levy Naón

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

Unprimed electrostatic plastic bottle spacer delivered more salbutamol aerosol to airways than antistatic valved holding chambers
Hyouk-Soo Kwon (Seoul, Republic of Korea), Ji-Yoon Oh, Ji-Hyang Lee, Yu Ri Kang, Young-Soon Yoon, Woo-Jung Song, Tae-Bum Kim, You Sook Cho

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

Late Breaking Abstract - Baseline characteristics impact on asthma exacerbation risk: individual patient triall 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-16 in poster area
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

Chairs: Selina Tsim (Glasgow (Glasgow), United Kingdom), Chair to be confirmed

ERS International Congress 2023
DETAILED PROGRAMME
MONDAY 11 SEPTEMBER, 2023
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
Jitianong Sootlek (Bangkok, Thailand), Vorawut Thanthitaweewat

Symptom-guided drainage and autopleurodesis rates in patients with Indwelling Pleural Catheters (IPCs) for malignant pleural effusions
Isaac Fong (Singapore, Singapore), Wui Mei Chew, Kah Yee Tham, Marnie Tamayo Gutierrez, Aza Taha, Sandra Hui, Imran Bin Mohamed Noor

Getting the basics right. Optimal catheter size for the pleurodesis of recurrent malignant pleural effusions
Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Konstantinos Stefanidis, Evangelos Fergadis, Stylianos Michelis, Ioannis Provatas, Georgios Gkantinas, Theodoros Fachouridis, Ioannis Stamatakos, Thoimi Kiknadze, Antonios Katsantonis, Georgios Anagnostopoulos, Georgios Benakis, Antonios Antoniadiis, Nikolaos Tzatzadakis, Efstathios Metaxas

Ultrasonic Elastography-guided Pleural Biopsy for the Diagnosis of Pleural Effusion, An Observational Prospective Multicentric Study
Gang Hou (Beijing, China), Mingming Deng

Cell block in malignant pleural fluids- a safe tool in the evaluation of histopathological predictive factors.
Daniela Xhemalaj (Tirana, Albania), Fatmir Caushi, Ilir Skenduli, Jonida Tula, Elona Hysenbelli, Jolanda Nikolla, 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 Jonckheere, Tom Richart, Kristiaan Nackaerts, Veerle Surmont, Jan P. Van Meerbeeck, Kevin Lamote

Cutting-edge tools for lung cancer-related pleural effusion detection
Tan Shu Feng (Serdang, Malaysia), Umni Nadira Daut, Jamalul Azizi Bin Abdul Rahaman, 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, Alexandria Macpherson, Laura Alexander, Julie Roberts, Jacqui Gourlay, Joanne Megarry, Nicola Walker, Kevin Blyth

Role of pleural fluid calprotectin as a biomarker in malignant pleural effusions
Nishant Kumar Chauhan (Jodhpur (Rajasthan), India), Amartya Chakraborti, Naveen Dutt, Mahendra Kumar Garg, Mithu Banerjee, Deepak Vedant, Gopal Durga, Harilharan Iyer

Dactinomycin could prime immune cell therapy via activation of tumour cell STING
Yu Zhao (Headington, Oxford, United Kingdom), Nikolas I Kanellakis, Yanchun Zhang, Tao Dong, Yanchun Peng, Beibei Wang, Megat Abd Hamid, Xuan Yao, Elie Antoun, Simeon Draganov, Najib M Rahman

Patient-derived organoids of malignant pleural mesothelioma
Francesca Gonnelli (Ancona, Italy), Luca Volpini, Federica Monaco, Marco Tomasetti, Francesca Barbisan, Gaia Goteri, Lory Santarelli, Lina Zuccatozza, Federico Mei

Primary cilia associated BBSome gene expression during inflammatory stress in mesothelial cells and primary mesothelioma cells.
Erasmia Rouka (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitarak, Sotiris Sinis, Eleftheros Papazoglou, Rania Kotsioun, 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, Tao Dong, Najib M Rahman

Multicenter analysis of procedural burden and diagnostic delay in patients with malignant pleural effusions
Louis Yeung (Sydney, Australia), Simon Graffen, Jonathon Parker, Andrew Oaten, Vineeth George

Seven year retrospective analysis of the pleural procedure service at Singleton hospital
Jennifer Park (Swansea, United Kingdom), Matthew Renwick, Mohammad Sanim Yasar, Narendrababu Rampura Chinnappa

Understanding trends of malignant pleural effusion and ascites in metastatic intra-abdominal cancers
Beenish Iqbal (Oxford, United Kingdom), Anand Sundaralingam, Dinesh Addala, Poppy Denniston, Suzzy Guo, Rob Hallifax, 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

Clinical characteristics of pleural effusion with exudative and transudative borderline properties
Akiko Sano (Osaka, Japan), Hiroyuki Sano, Osamu Nishiyama, Yuji Tohda, Hisako Matsumoto

The continued burden of pleural mesothelioma; a review of 10 years experience at this hospital Trust
Qasim Gohir (Telford, United Kingdom), Julia Mcadam, Emma Crawford, Olivia Bosher, Muhammad Saleem, Koottalai Srinivasan, Harmesh Moudgil

Malignant pleural mesothelioma. Description of 70 cases in the last decade.
Fernando Garcia Prieto (Getafe, Spain), Sara Calero Pardo, María Teresa Rio Ramirez, Cristina Matesanz López, Jose Maria Diaz García, Beatriz Raboso Moreno, Araceli Abad Fernandez

Is nicotine dependence associated with lung function, physical capacity and sleep quality?
Nadia BEN LAZREG (sousse, Tunisia), Khouloud Kchaou, Fatma Guezguez, Balsam Barkous, Saloua Ben Khamsa

Effects of yoga on pulmonary parameters, posture and body awareness among smokers
Caner Özbek (Istanbul, Turkey), Elif Develi

Herb vaporizers are not safe for health. Particles emissions from dry chamomile vaporization
Efthimios Zervas (Patra, Greece), Chara Tsipa, Niki Matsouki, Manos Konstantinidis, Zoe Garciau

A breathing human lung-on-chip to study cigarette smoke induced COPD
Arunima Sengupta (Bern, Switzerland), Aurélien Dorn, Nuria Roldan, Janick Stucki, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier T. Guenat

Effect of Second-Hand Tobacco Smoke Exposure on Lung Functions of Children with Chronic Lung Disease
Beste Özsezen (Ankara, Turkey), Nagehan Emiralioglu, Dilber Ademhan Tural, Suna Sabuncuoglu, Gözde Girgin, Bircen Sunman, Halime Nayir Buyukasik, Ismail Guzelkas, Didem Alboga, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper

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“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 García Salazar, Ekaterina 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, 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 Daaghfous, Fatma Tritar

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, Gholamreaza 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
Pneumothorax in tobacco and cannabis smokers in the Agadir region
Oussama HALLOUMI (AGADIR, Morocco), Khadija Aitnasser, Fatiha Bounoua, Aboubakr Imzil, Abdelkrim Khannous, Younes Essaid, Abdelmajid Oulahbib, Nada Boutbargha, Hanane Ikrou, Sofia Farhat, Houssam Ennaceri, Houda Moubachir, Hind Serhane

Tobacco use among ICU patients with Candida auris infection in COVID 19 referral hospital.
Stamatoula Tsikrika (Athens, Greece), Asimina Raftopoulou, Vasiliki Nanou, Marina Asmanidou, Theoni Agapitou, Anastasia Kosmidou, Aristeia Christou, Eirini Mikrovasiili, Evangelos Stefanidis, Gerasimos Mexatas, Ioannis Nikolopoulos

Relationship between smoking status and inflammation markers in adolescents.
Khurshidbek Tashmetov (Ташкент, Uzbekistan), Naima Ubaydullaeva

Study of smoking behaviour in asthmatic workers
Nidhal Balloumi (Ariana, Tunisia), latifa BEN AFIA, Dorra Brahimi, Amen Moussa, Hanene Ben Said, Najla Mechergui, Meriem Mersni, Ghada Bahri, Imen Youssef, Nizar Ladhari, Soraya Fenniche

Changes in violations at tobacco point of sales between 2015 – 2022 in Istanbul
Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Tanzer Gezer, Osman Elbek, Pinar Ay, Fusun Yildiz, Banu Salepci, Pinar Bostan

Profile of child labourers in a rural area of West Bengal: A Cross sectional study
Himanish 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 Schlünssen, Randi J. Bertelsen, Cecile Svanes

Effect of tobacco in the non-control of asthma among workers
Nidhal Balloumi (Ariana, Tunisia), latifa BEN AFIA, Dorra Brahimi, Amira Bel Kahla, Hanene Ben Said, Meriem Mersni, Najla Mechergui, Ghada Bahri, Imen Youssef, Nizar Ladhari, Soraya Fenniche

**PS-3 in poster area**

**Session** 16:00 - 17:30

**Poster session: Respiratory mechanics, structure-function, and modelling studies**

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

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

**Chairs:** Raffaele Dellaca (Milano (MI), Italy), Katarzyna Górska (Warszawa, Poland)

**Improved gas exchange during high-frequency percussive ventilation: comparison of intratracheal and extrathoracic oscillations**
Ferenc Peták (Szeged, Hungary), Walid Habre, John Diaper, Roberta Südy, Davide Bizzotto, Raffaele Dellacà, Álmos Schranc

**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, Gregely 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 Tolnai, 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 Pecchiari

**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

**The pattern and distribution of ventilatory defects after extracorporeal membrane oxygenation in leptospirosis with acute respiratory distress syndrome survivors**
Bryan Leonard Quizon (Quezon City, Philippines), Joann Kathleen Ginete-Garcia

**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
Inez Frerichs (Kiel, Germany), Barbara Vogt, Kathinka Deuss, Victoria Hennig, Claas Strodthoff

New parameters of airway dynamics derived by integration from plethysmographic tidal breathing loops (sRaw-loop) in healthy children and adults
Richard Kraemer, Hans-Jürgen Smith, Heinrich Matthys

Comparing a semi-empirical model of inhaled compound deposition with computational fluid dynamics (CFD)
Hosein Sadafi (Kontich, Belgium), Benjamin Lavon, Wilfried De Backer, Maarten Lanclus, Jan De Backer

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 Tolnai (Szeged, Hungary), Gergely Fodor H., 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 Weinkauff, 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 Schittny, Yves Donati, David Haberthür, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampanoni, Constance Barazzone, Johannes C. Schittny

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

**PS-7 in poster area**

**Session**: 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

**Chairs**: Fabiano Di Marco (Milan, Italy)

**Evaluation of ACCEPT to predict COPD exacerbations in NOVELTY**
Samuel Lewis (Cambridge, United Kingdom), Adam Taylor, Eleni Rapsomaniki, Hana Müllerová, Cecilia Kristensson, Andrew Harper, Pierre-Régis Burgel, Mohsen Sadatsafavi, Caroline Owen, Rod Hughes, . 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
Balázs 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 Solholm Godthaab Brath (Vadum, Denmark), Sisse Dyman Alsted, Ebshen Bolvig Mark, Pernille Veiss-Pedersen, Rasmus Brath Christensen, Henrik Højgaard Rasmussen, Jens Brøndum Frokjaer, 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 Müllerová (Cambridge, United Kingdom), Clementine Nordon, Stefan Franzén, Laura Belton, Clement Erhard, Nifasha Rusibamayila, Michaela Kallus, Mohsen 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
Louis Chchor (Croydon North, Australia), Martin Macdonald, Garun Hamilton, Stefan Saggese

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, Zsofia Lázár

Identifying opportunities for earlier diagnosis of high-risk COPD patients in Australia: an observational study
Andrew Dickens (Cambridge, United Kingdom), Christine Jenkins, Alexander Evans, Kerry Hancock, Anita Sharma, Belinda Cochrane, Paul Leong, Brian Ko, Florian Heraud, Porsche Le Cheng, Alexander Roussos, Sinthia Bosnic-Anticevich, Fabio Botini, Victoria Carter, Angelina Catanzanari, Clare Ghisla, Thao Le, Chantal Le Lievre, Ruth Murray, Kanchanamla Ranasinghe, Deb Stewart, Marije Van Melle, Rebecca Vella, Russell Wiseman, David Price

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

Burden of chronic obstructive pulmonary disease (COPD) and risk factors for acute exacerbation: results of phase IV SWORD study
Sheetu Singh (Jaipur (Rajasthan), India), Bharat Bhushan Sharma, Arvind Sharma, Krishna Kumar Sharma, Kp Suraj, Tariq Mehmood, Kumar Utsav Samaria, Surya Kant, Nishtha Singh, Tejraj Singh, Aradhana Singh, Rajeev Gupta, Parvaiz Koul, Sundeep Salvi, Virendra Singh

Biochemical markers as predictors of outcomes in COPD exacerbations
Ana Sofia Maciel Campos Da Silva (Sesimbra, Portugal), Rita Enriquez, Joana Duarte, Andreia Daniel, Inês Claro, Margarida Barata, Maria Alvarenga Santos, Teresa Martin, Nidia Caires, Filipa Todo Bom

Pulmonary exacerbations in alpha-1 antitrypsin deficiency and usual COPD
Paul Ellis (Solihull, United Kingdom), Joshua De Soya, Ketan Patel, John Ripollone, Alice Turner, Michael Newnham

Predictive factors of intensive care unit admission in COPD exacerbations
Asma Knaz (Sousse, Tunisia), Aissa Sana, Brentzi Wafa, Benhdira Baraa, Imen Gargouri, Ahmed Abdelghani

Predictors of acute exacerbations in COPD: a systematic review
Charlotte Cecile Bucsán (Losser, Netherlands), Anike 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, M G J Brusse-Keizer
**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

**Chairs:** Christoph Fisser (Regensburg, Germany), Chair to be confirmed

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**Characteristics and clinical outcomes of adults hospitalized with viral lung infection**
Mina Khezrian (Cambridge, United Kingdom), Steven Kiddle, Shubh Agrawal, Malin Fagerås, Benjamin Emmanuel, Trung Tran, Ioannis Psallidas

**Post-intubation cardiac arrest events in patients of acute respiratory failure: compare neuromuscular blockers (NMBs) for rapid sequence intubation (RSI)**
Yi-Ting Chen

**The clinical score composite of six factors can guide DNR decisions in elderly patients with severe community acquired pneumonia: a retrospective multicenter cohort study.**
Pin-Kuei Fu (Taichung, Taiwan), Yu-Cheng Wu

**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

**Risk factors associated with Hantavirus Cardiopulmonary Syndrome in Chile.**
Ricardo Fritz (Santiago, Chile), Francisco Arancibia, Ruvişay Gutiérrez-Arias, Claudia Sepulveda, Carlos Guerra, Cesar Paulsen

**Risk factors for asthma related intensive care unit (ICU) admissions: Analysis of 1.4 million patients in England**
Prasad Nagakumar, Rasiah Thayakaran, Nicola Adderley, Krishnarajah Nirantarukarum, Adel Mansur, Shamil Haroon

**Development and validation of deep-learning-based sepsis and septic shock early prediction system in real-world ICU data**
won hyun cho (Yangsan, Republic of Korea), Taewha Kim, Hye Ju Yeo, Yunwon Tae, Kyungjae Cho, Dongjoon Yoo, Yeha Lee

**Outcomes of lung cancer patients admitted to a medical intensive care unit (ICU)**
Glenn Yong (Singapore, Singapore), John Abisheganaden, Sennen Lew

**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

**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

**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

**Impact of socioeconomic factors on pneumological emergency response**
Klaas F. Franzen (Luebeck, Germany), Holger Maurer, Charlotte Söling, Daniel Drömann

**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

**Association of breathing reserve with post-operative pulmonary complications in an elective surgical cohort**
Matthew Knight (Manchester, United Kingdom), Inbar Aberman, Manisha Shah, Rahuldeb Sarkar

**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

**Prediction of healthcare-associated infection using Quantiferon monitoring in pneumonia patients**
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Taewha Kim
Risk factors for long-term invasive mechanical ventilation: a retrospective longitudinal study using German health claims data
Franziska Trudzinski (Heiderberg, Germany), Julia D Michels, Benjamin Neetz, Jan Meis, Michael Müller, Axel Kempa, Claus Neurohr, Armin Schneider, Felix Herth, Joachim Szecsenyi, Elena Biehler, Thomas Fleischhauer, Michael Wensing, Simone Britsch, Janina Schubert-Haack, Thomas Grobe, Tinnt Frerker

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, Alicia Lazarus

Trends in lung transplantation (LTx) in Spain among patients suffering or not from IPF (2016 -2020)
Ana Isabel Higes Diaz (Madrid, Spain), Belen Lopez-Muñiz Ballesteros, Christian Alonso Correa Gonzalez, Cristina Sánchez Fernández, Rodrigo Jiménez García, Ana Lopez De Andres, Javier De Miguel Díez

Dyspnea scale and 1-min sit-to-stand test can predict frailty status in interstitial lung disease patients
Keiji Oishi (Ube, Japan), Maki Asami-Noyama, Tassuku Yamanoto, Kazuki Hamada, Ryo Suetake, Syuichiro Ohata, Kenji Sakamoto, Yoriiyuki Murata, Yoshikazu Yamaji, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

Combined scores from cardiopulmonary exercise tests can predict mortality in patients with interstitial lung disease
Pin-Kuei Fu (Taihuchung, Taiwan), Yuan-Yang Cheng

Lung dysbiosis index as a biomarker for interstitial lung disease
Kristel Svalland Knudsen (Bergen, Norway), Rune Nielsen, Xenia Roda, Gunnar Reksten Husebo, Andreu Paytuvi, Walter Sanseverino, Sverre Lehmann, Tomas Mikal Eagan

Antacid and patient survival in idiopathic pulmonary fibrosis
Jin-Young Huh (Republic of Korea), Jin Woo Song

Investigation of pepsin levels in bronchial lavage in patients with interstitial lung disease and chronic cough
Selen Ala (Samsun, Turkey)

The eating and drinking experience in patients with IPF: a qualitative study
( ), Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson

NUTRITIONAL STATUS IN IDIOPATHIC PULMONARY FIBROSIS
Esther Sánchez Alvarez (Málaga, Spain), Eva B. Cabrera Cesar, Rocio Fernández Jiménez, Francisco Espildora Hernandez, José Manuel Garcia Almeida, Jose Luis Velasco Garrido

Co-designing a Core Outcome Set for and with patients with Pulmonary Fibrosis (COCOS-IPF project): a joint patient-professional effort

Trajectories of health-related quality of life (HRQL) in patients with idiopathic pulmonary fibrosis (IPF)
Amy Olson (Ridgefield, United States), Jamie L Todd, Laurie D Snyder, Peide Li, Megan L Neely

Utility of EXACT®, a patient-reported outcome instrument, for idiopathic pulmonary fibrosis-related cough
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Thomas Sciscia, Toby Maher, Philip L. Molyneaux

Cough monitoring and quality of life in patients with interstitial lung diseases measured by a smartphone application-based technique
Byoung Soo Kwon (Seoul, Republic of Korea), Dayeon Han, Catherine Song, Jiyoun Young Jung, Jong Sun Park

Characteristics of idiopathic pulmonary fibrosis-associated cough. A case-control study
Eeva Saari (Kuopio, Finland), Minna Mononen, Hannele Hasala, Anne Lätti, Johanna Kaulamo, Hanna Nurmi, Riitta Kaarteenaho, Minna Purokivi, Heikki 0 Koskela
Telemedicine in pulmonary fibrosis – home spirometry as a new approach in disease control
Miroslav Ilić (Sremska Kamenica (Vojvodina), Republic of Serbia), Jovan Javorac, Ana Milenković, Dejan Živanović, Dejan Miljkovic, Dragica Kovačević, Emilija Vujčić

Effect of BI 1015550, a preferential PDE4B inhibitor, on FEV1/FVC ratio in IPF
Vincent Cottin (Lyon, France), Arata Azuma, Toby M Maher, Claudia Valenzuela, Marlies S Wijsenbeek, Yi Liu, Susanne Stowasser, Donald F Zoz, Luca Richeldi

The extent of emphysema plays a role in morbidity-mortality in patients with CPFE and IPF
Filippo Gozzi (Modena, Italy), Jaume Bordas-Martinez, Naiara Santos-Erice, Guadalupe Bermudo-Peloche, Cristian Tebé-Cordoni, Marta Lopez-Sánchez, Stefania Cerri, Enrico Clini, Salud Santos-Pérez, Maria Molina-Molina, Vanesa Vicens-Zymgunt

Comparison of emphysematous COPD patients with or without Combined Pulmonary Fibrosis and Emphysema (CPFE)
Muzaffer Onur Turan (Izmir, Turkey), Sebnem Karasu, Ceyda Anar, Bunyamin Sertogullarindan

Win ratio approach to assessing the effect of nintedanib on a hierarchical composite endpoint in patients with progressive pulmonary fibrosis
Claudia Valenzuela (Madrid, Spain), Kevin R Flaherty, Yoshikazu Inoue, Dirk Koschel, Jin Woo Song, Corinna Miede, Michiel Oldenburg, Martin Kolb

Relevance of the systematic sleep study on idiopathic pulmonary fibrosis (IPF)
Jaume Bordas Martinez (barcelona, Spain), Neus Salord Oleo, Vanesa Vicens Zymgunt, Rosana Blavia Aloy, Sandra Pérez Ramos, Eliseo Prado Gala, María D. Calvo Sánchez, Ana Montes-Worboys, Guadalupe Bermudo Peloche, Salud Santos Pérez, Carmen Monasterio Ponsa*, Maria María Molina Molina* (* Equal Contribution)

Impact of air pollution on survival in idiopathic pulmonary fibrosis according to the MUC5B polymorphism
Lucile Sese (Paris, France), Raphaël Borie, Caroline Kammengiesser, Vincent Cottin, Dominique Israel-Biet, Bruno Crestani, Jacques Cadranel, Cécile Chemivesse, Stéphanie Guillot-Dudoret, Dominique Valeyre, Isabella Annesi Maesano, Hilario Nunes

PS-1 in poster area
Session 16:00 - 17:30
Poster session: Clinical problems in respiratory medicine (2)

Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology, Respiratory critical care
Method(s) : Imaging, Cell and molecular biology, Endoscopy and interventional pulmonology, General respiratory patient care, Epidemiology, Palliative care, Surgery, Pulmonary function testing, Public health, Physiology, Respiratory intensive care

Chairs : Shailesh Balasaheb Kolekar (Herlev, Denmark), Anne Orholm Nielsen (Gentofte, Denmark)

What clinical factors are predictive of outcome in Primary Spontaneous Pneumothorax management?
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Mohammed Raza, Najib Rahman

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

Clinical, laboratory, and radiologic markers to differentiate benign pleural effusions
Güntülü Ak (Eskişehir, Turkey), Fatmanur Korul, Selma Metintas, Huseyn Yildirim, Muzaffer Metintas

Differential diagnosis of pleural effusion using machine learning
Na Young Kim (Hwaseong-si, Gyeonggi-do, Republic of Korea), Boa Jang, Young-Gon Kim, Jaeyeong Cho

Long term association between frailty and survival in patients with pleural disease
Eleanor Barton (Bristol, United Kingdom), Ben Carter, Alessia Verduri, Jessica Hughes, Jonathan Hewitt, Nick Maskell

Impact of fluid overload on pulmonary function in Heart Failure: a cross-sectional study.

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

Ultrasound quantification versus the actual pleural fluid volume drained in patients undergoing medical thoracoscopy.
Vijayaravindri Ramachandran (Coimbatore, India), Isaac Barney, Gupta Richa, D.J. Christopher, Robinson Vimala Leena, Yadav Bijesh
Metabolic alterations in post-COVID-19 patients with sarcopenia or sarcopenic-obesity: A cross-sectional study.

Efecto del B-hidroxi-B-metilbutirato sobre la masa muscular en pacientes post-COVID-19: Ensayo clínico.


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

Alpha-1 antitrypsin Pi*SS genotype and risk of pulmonary disease. An EARCO Research project
Teresa Martin Rioja (Lisboa, Portugal), Catarina Guimarães, Cristina Esquinas, Maria Torres, Maria Sucena, Marc Miravitlles

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

Hemoptysis: a retrospective analysis in a tertiary hospital of Greece
Dimitrios Potonos (Ioannina, Greece), Antonia Assioura, Konstantinos Exarchos, Antigoni Simou, Christina Angelopoulou, Christos Kyriakopoulos, Evgenia Salla, Christos Chronis, Konstantinos Tatsis, Athanasios Konstantinidis, Athena Gogali, Konstantinos Kostikas

Impact of thrombomodulin on mortality in hospitalized patients with COVID-19: A cohort-study

What is the accuracy of pre-operative staging in identifying patients with single station N2 disease?
janet johnston (Manchester, United Kingdom), Christopher Craig, Patrick Goodley, Matthew Evison, Paul Bishop, Sarah Upperton, Matthew Callister, David Meek, Laura Succony, Wadood Parvez, Muhammad Tufail, John Maclay, Jayasekera Geeshath, Ian Woolhouse, Alana Livesey

Prevalence of Metabolic Syndrome in Covid-19 patients after 60 days-hospital discharge
Robson Prudente (Botucatu (SP), Brazil), Mariana Dorna, Marcelo Lorena, Flavia Silva, Larissa Pachiello, Raissa Toledo, Luiz Machado, Estefania Franco, Luis Brizola, Maercio Santos, Edris Savadkouhi, Camila Colombo, Suzana Tanni

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

Management of hemoptysis in a pneumology department
Nemsi Ella (Tunis, Tunisia), Ben Jemai Emna, Chaabi Khouloud, Ben Attig Yosra, Khedhri Manel, Ben Amar Jihene, Boudaya Saddok, Zaibi Haifa, Aouina Hichem

PS-8 in poster area  Session  16:00 - 17:30
Poster session: Clinical aspects in asthma
Disease(s): Airway diseases
Method(s): Epidemiology  General respiratory patient care  Public health  Pulmonary function testing  Physiology  Pulmonary rehabilitation
Chairs: Pavol Pobeha (Košice, Slovakia), Antonio Spanevillo (Milano, Italy)
Sensitivity and Specificity of the 2022 European Respiratory Society (ERS) Guidelines for the Diagnosis of Asthma in Adults
Andrew Simpson (Hull, United Kingdom), Sarah Drake, Ran Wang, Laura Healy, Hannah Wardman, Miriam Bennett, Clare S Murray, Stephen J Fowler, Angela Simpson

Medical care access and asthma-related hospitalization
Yossr Aloulou (Manouba, Tunisia), Hana Blibech, Houda Snene, Marwa Bougacha, Rym Cheour, Amal Zemzemi, Nadia Mehiri, Sameh Belhadj, Nozha Ben Salah, Bechir Louzir

Impact of protocolised care on difficult-to-treat asthma outcomes
Nicole Yu-Fang Siew (Singapore, Singapore), Kunday Saripalli, Yiong Huak Chan, Wilson Chan, Anthony Yii, Xue Ning Choo, Tunn Ren Tay

Asthma frequent fliers: phenotypes, endotypes and current hospital healthcare utilisation – can we do better?
Charlotte Buchalter (Hertfordshire, United Kingdom), Rama Vaancheeswaran

Longitudinal lung function trajectories in adults with severe asthma.
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Julie Marsh, Brendan Cooper, Ali Bahron, Adel Mansur

Does a normal symptom score for asthma exclude abnormal airway resistance in mildly symptomatic asthma Patients?
Ilgim Vardaloglu (Istanbul, Turkey), Mert Karatas, Bilun Gemicioglu

Relation of changes in PEF and FEV1 in exercise challenge in children
Leon Csonka (Tampere, Finland), Antti Tikkakoski, Jussi Karjalainen, Lauri Lehtimäki

Internal consistency reliability of the VCDQ for Inducible Laryngeal Obstruction
Siobhan Ludlow (Cheshire, United Kingdom), Bethany Tidmarsh, Charles Pantin, Stephen Fowler

Respiratory muscle strength investigation in asthma patients with post-COVID-19 syndrome and significant dyspnea
Svitlana Opimak (Kyiv, Ukraine), Galya Guzeniuk, Maryna Polianska, Viktoria Ignatieva, Inna Zvol, Svitlana Moskalenko, Natalia Vlasova, Iryna Chumak, Liudmila Halai

Identifying undiagnosed asthma in symptomatic adults with normal pre- and post-bronchodilator spirometry
Sheojung Shin (Ottawa, Canada), George Whitmore, Louis-Philippe Boulet, Marie-Ève Boulay, Andréanne Côté, Céline Bergeron, Catherine Lemière, M. Diane Lougheed, Katherine L Vandemheen, Gonazlo Alvarez, Sunita Mulpuru, Shawn Aaron

The impact of time-of-day on the diagnostic performance of tests for asthma
Ran Wang (Manchester (Greater Manchester), United Kingdom), Stephen Fowler, Robert Maidstone, Laura Healy, Sarah Drake, Lesley Lowe, Angela Simpson, Clare Murray, Hannah Durrington

Impact on clinical practice of the ERS/ATS 2022 recommendation on defining bronchodilator response.
Monique Hardy (Roermond, Netherlands), Martijn Cuijpers, Herman-Jan Pennings

The control of asthma in association with body mass index and the age of asthma onset
Vladyslava Kachkovska (Sumy, Ukraine)

Difference between spirometry and oscillometry in detecting bronchodilator response in asthma.
Lotte Bult (Rotterdam, Netherlands), A Roos, G J Braunstahl, J C C M In ‘T Veen

Characterization of the patients attended in the Emergency Room due to asthmatic exacerbation
Daniel Enrique Vega Lizarazo (Malaga, Spain), Javier López, Alvaro Martinez, Eva Cabrera, Maria Carmen Fernández, José Luis Velasco

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
Hana Dihfallah (Ariana, Tunisia), Houda Rouis, Chirine Moussa, Donia Jridi, Chaima Turki, Oumayma Aggouni, Ibtihel Khouaja, Ines Zendah, Sonia Maalej

Work-related asthma and occupational asthma: what are the differences?
Siwar Chemingui (Nabeul, Tunisia), Meriem Mersni, Imen Youssef, Nidhal Balloumi, Najla Mechergui, Hanene Ben Said, Ghada Bahri, Souraya Fenniche, Nizar Ladhari
**PS-13 in poster area**  
**Session**  
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

**Chairs:**  Stojka Fustik (Skopje, North Macedonia), Chair to be confirmed

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**Cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapy (ETI) for one-year and changes in chronic rhinosinusitis in people with cystic fibrosis (pwCF)**

Shahid Sheikh (Columbus, United States), Mai-Lan Ho, Mariah Eisner, Courtney Gushue, Grace Paul, Karen Mccoy, Meredith Lind

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**Impact of Kaftrio on exercise capacity in children with Cystic Fibrosis**

Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Natalie Blyth, Joe Madge, Erol Gaillard

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**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

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**Evaluation of the impact of cystic fibrosis modifier therapies on liver function in children and young adults**

Sophie Hodgson (Glasgow, United Kingdom), Lyndsay Kennedy, Anne Devenny, Susan Kafka, Louise Thomson, Jane Davis

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**Modulatory therapy experience in patients with cystic fibrosis in Turkey: A multi-center study**


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**Correlations between in-vitro and clinical drug response to CFTR modulators**

Felix Ratjen (Toronto (ON), Canada), Sanja Stanovevic, Tarini Gunawardena, Theo Moraes, Tanja Gonska, Paul Eckford, Christine Bear

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**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 Chedevergne, Stanislas Grassin Delyle, Isabelle Sermet-Gaudelus

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**Improved bone mineral density following highly effective CFTR modulator treatment in children and young adults with cystic fibrosis**

Jasna Rodman Berlot (Ljubljana, Slovenia), Darja Šmigoc Schweiger, Malena Aldeco, Dušanka Lepej, Marina Praprotnik, Gaja Setnikar Kimovec, Saša Šetina Šmid, Aleksandra Zver, Uroš Krivec

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**Description of the variations in airway colonization in patients with cystic fibrosis in treatment with the combination of Ivacaftor, Tezacaftor and Elexacaftor (ITE)**

Beatrice Della Gatta (Torino, Italy), Luca Ronco, Federica Peradotto, Elisabetta Bignamini

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**Improved bone mineral density following highly effective CFTR modulator treatment in children and young adults with cystic fibrosis**

Jonathan Benito Patón (Valencia, Spain), Sergio Iniesta González, Claudia López Pavia, Teresa Pérez Sanz, Lucia González Alvarez, Jose Vicente Arcos Machancoses, Elena Crehuá Gaudiza, Silvia Castillo Corullón

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**The long-term respiratory effect of Elexacaftor/Tezacaftor/Ivacaftor in people with cystic fibrosis**

Mohamad Hadhud (jerusalem, Israel), Joel Reiter, Alex Gileles-Hillel, Ido Sadrads, Eitan Kerem, Malena Cohen-Cymerknoh, Oded Breuer
CFTR-modulator therapy effect assessed by CT and MBW in infants and toddlers with CF
Rikke Mulvad Sandvik (Hørsholm, Denmark), Yuxin Chen, Marianne Skov, Frederik Buchvald, Lotte Borgwardt, Tacjana Pressler, Harm Tiddens, Kim Nielsen

Possible founder effect and prevalence of the p.Cys1400Ter pathogenic CFTR mutation in Cyprus
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Pavlos Fanis, Panayiotis Kouis, Phivos Ioannou, Constantina Costi, Andreas Matthaiou, Tonia Adamidi, Leonidas Phylaktou, Vassos Neocleous, Panayiotis Yiallouros

Late Breaking Abstract - Infertility among adults with primary ciliary dyskinesia
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Yin Ting Lam, Katie Dexter, Michele Manion, Sophie Christin-Maitre, Nathalie Massin, Bernard Maitre, Myrofora Goutaki, Claudia E Kuehni

Late Breaking Abstract - Epidemiology, clinical features and disease severity in pediatric patients with COVID-19 in maternal and children's central hospital in Batumi, Georgia
Tamar Bakhtadze (Batumi, Georgia), Vakhtang Beridze, Veriko Takidze

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
SEE PAGE 1

17:30-19:00
INDUSTRY EVENING SYMPOSIUM
SEE PAGE 1
### Amber 3+4 Session
#### Skills workshop: SW13 Thoracic ultrasound basic principles

**Aims:** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

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

**Tag(s):** Clinical

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

**Chairs:** Christian B. Laursen (Odense, Denmark)

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<tr>
<td>08:00</td>
<td>Introduction</td>
<td>Christian B. Laursen (Odense, Denmark)</td>
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<td>08:20</td>
<td>Normal Thoracic Cavity</td>
<td>Helen Mcdill (Bristol (Avon), United Kingdom), Casper Falster (Odense, Denmark)</td>
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<td>08:20</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Gilles Mangiapan (Creteil, France), Pia Iben Pietersen (Odense C, Denmark)</td>
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<td>08:20</td>
<td>Case studies</td>
<td>Najib M. Rahman (ABINGDON, United Kingdom)</td>
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<td>08:20</td>
<td>Guided interventions</td>
<td>Søren Helbo Skaarup (Aarhus C, Denmark), Rahul Bhatnagar (Bristol, United Kingdom)</td>
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### Amber 1+2 Session
#### Skills workshop: SW10 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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<td>08:00</td>
<td>Introduction</td>
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<td>08:00</td>
<td>Radiological assessment of pulmonary hypertension</td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
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<td>08:00</td>
<td>Pathological assessment of pulmonary hypertension</td>
<td>Peter Dorfmuller (Le Plessis-Robinson, France)</td>
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<td>08:00</td>
<td>Echocardiography in pulmonary hypertension</td>
<td>Marielle van de Veerdon (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)</td>
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<tr>
<td>08:00</td>
<td>Clinical assessment of pulmonary hypertension</td>
<td>Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)</td>
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**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

**Chairs:** Chair to be confirmed

**Efficacy and safety of high flow nasal oxygen therapy compared to conventional oxygen therapy in postoperative pulmonary complications: a systematic review and metaanalysis**
Jonný Fay Teves (Quezon City, Philippines), Noreen Ada Mangugan, Joann Kathleen Garcia

**Ratio of oxygen saturation index and outcomes of high flow oxygen in post-extubated patients: a cohort study**
Thiti Sricharoenchai (Bangkok, Thailand), Metaneé Songrin

**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

**The reverse flow in upper airways during asymmetrical nasal high flow ventilation**
Natalia Kabaliuk (Christchurch, New Zealand), Zane Goggin, Stanislav Tatkov

**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

**Effective flow rates and decarboxylation differs between nasal high-flow devices**
Jens Bräunlich (Leipzig, Germany), Hubert Wirtz

**Nosocomial Pneumoniae in Patients with SARS-CoV-2 ARDS undergoing NIV**
Federica Olmati (Roma, Italy), Alessandra Oliva, Pia Baiocchi, Angelo Petroianni, Corina Tomsa, Gianluca Paciucci, Flavio Mirabelli, Claudio Maria Mastroianni, Paolo Palange

**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, Pearlene Antoine-Pitterson, Bethany Jones, Biman Chakraborty, Rahul Mukherjee

**HACOR SCALE TO PREDICT FAILURE IN NONINVASIVE VENTILATION (NIV): CLINIMETRIC PROPERTIES**
Adriana C. Lunardi (São Paulo (SP), Brazil), Matheus Pereira, Kaooany Moreira

**Impact of HACOR Score and ROX index on Noninvasive Ventilation Failure in patients with acute hypercapnic respiratory failure**
Dhouha Ben Braiek (Sousse, Tunisia), Sourour Bel Haj Youssef, Yosri Ben Ali, Hend Zorgati, Azer Yaacoub, Nadine Boukadida, Arij Hammedi, Rihab Boubtane, Rahma Ben Jazia, Ameni Kacem, Anis Maatallah, Jihene Ayachi

**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

**Conservative oxygen supplementation during helmet CPAP therapy in patients with COVID-19 and respiratory failure: a pilot study**
Alessandra Iacovelli (Bellegra, 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

**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 Candeleria Cáceres, Elizabeth González Revilla, Roberto Larrosa Barrero, Andrea Albuja Hidalgo, Ana Santiago Recuerda, Ester Zamarrón De Lucas, Carlos Carpio Segura, Enrique Zamora García, Elena García Castillo, Elena Avalos Pérez-Urra, María Teresa Ramírez Prieto, José Andrés García Romero De Tejada, Raúl Moreno Zabaleta

**Mortality in admitted patients with ILD and respiratory failure: Observational analysis**
Sameen Toor (Leicester, United Kingdom), Rachel Mundin, Felix Woodhead, Padmavathi Parthasarathy, Syed Geelani, Hassan Choudry, Charlotte Swales

**Nasal High Flow Therapy (NHFT) 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
Use of UCL Ventura (Wayrachi) device as CPAP or HFNC in patients with severe respiratory failure due to COVID-19 pneumonia
Cecilia Lucía Pérez Muñante (Lima, Peru), Edwin Hernando Herrera Flores, Mario Daniel Danilla Dávila, Shanery Norma Gonzáles Vargas, Tatiana Luz Mirella Coba Taboada, Nancy Pamela Tapia Mantilla, Marco Ricardo Pérez Valencia

Audit of NIV Settings Initiation in Acute Hypercapnic Respiratory Failure
Ghulam Haider Khan (Westmalling, United Kingdom)

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

High intensity non invasive ventilation in management of acute hypercapnic respiratory failure of COPD
Khaled Hussein (Assiut, Egypt), Samiaa Hamdy, Ahmed Hamed, Maha Eissa

Inhaled delivery of nezulcitinib with nasal high-flow oxygen in healthy participants
Nathan Pfeifer (MONTARA, United States), Wayne Yates, Rajeev Saggar, Ed Moran, David Bourdet

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

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

AI-text mining for the identification of informative COPD subtypes
Florent Baty (St. Gallen, Switzerland), Laura Rechsteiner, Martin Brutsche

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), MURILO OLIVEIRA, Izadora Dourado, Cássia Goulart, Patricia Camargo, Renata Mendes, Audrey Borghi-Silva

The importance of image standardization through kernel conversion of COPD in a multicenter cohort
Mira Cho (Seoul, Republic of Korea), Youlim Kim, Hyun Lee, Seong Yong Lim, Jae Jeong Shim, Ki Suck Jung, Kum Ju Chae, Kwang Ha Yoo

COPD Virtual Wards offer more than just home comforts
Andrew Barlow (Chalfont St. Giles, United Kingdom), Harry Mitchell, Neel Kapoor, Michael Shaw, Eleanor Zinkin, Rahul Mogal, Ajitha Jayaratnam, Jonathan Phimister, Maria Buxton, Hannah O'Keefe, Niall Keenan, Dominique Auger, Michael Van Der Watt
Characterising radiological abnormalities in early COPD

COPD Assessment Test (CAT) Score according to the presence/absence of accelerated lung function decline in young adult smokers with normal FEVI1

Etiotypes of persistent airflow obstruction in the general population in different age bins
Marie Grasl (Wien, Austria), Alvar Agusti, Caspar Schiffers, Owa Sunanta, Marie-Kathrin Breyer, Sylvja Hartl, Robab Breyer-Kohansal

Validation of the Smart Air spirometer and screening for chronic obstructive pulmonary disease
Abir Bouhamdi (Fez, Morocco), Nassiba Bahra, Yassine Chechfahou, Rajae Amialli, Bissam Essabahi, Mounia* Serraj, Mohamed Chakib Benjelloun, Karima Elghazi, Bouchra Amara, Mohamad Elbizz

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

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

CAT versus mMRC to allocate COPD patients to clinically relevant phenotypes identified using Classification and Regression Trees
Nicolas Roche (Paris, France), El-Hassane Ouualaya, Jean-Louis Paillasseur, Pierre-Régis Burgel

Preserved ratio but impaired spirometry (PRISm): Are these subjects different?
Lancelot Pinto (Montreal (QC), Canada), Ashwini Chawhan, Dhara Thakrar, Trupti Mane

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

PS-5 in poster area

Poster session: Inflammatory endotyping: the macrophage across disease areas

Disease(s) : Airway diseases Interstitial lung diseases Thoracic oncology Respiratory critical care
Method(s) : Cell and molecular biology General respiratory patient care Pulmonary function testing Endoscopy and interventional pulmonology Epidemiology Public health Respiratory intensive care

Chairs : Niki L. Reynaert (Maastricht, Netherlands)

LSC - 2023 - Transcriptomic analysis suggests susceptibility to lung diseases post Sars-Cov-2 infection
Deepesh Dhakad (Munich, Germany), Théodore S Kapellos, Gregor Ebert, Thomas M Conlon, Ali Önder Yildirim

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 Johannson

Altered cholesterol metabolic pathways in macrophages contribute to granuloma formation in progressive sarcoidosis
Clarice Lim (Vienna, Austria), Anna Redl, Ram Vinay Paday, 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 Dolnikoff, Mariangela Macchione

Macrophages and their Stress Response – Environmental Triggers of Respiratory Diseases
Edith Katharina Plucinski (Hannover, Germany), Jan-Christopher Kamp, Jamie Soto, Xutong Sun, Stephen Black, Tobias Welte, Marius Hoep, Danny David Jonigk, Mark Kühnel
Reduction of macrophage-derived Galectin3-extracellular vesicles as a potential therapeutic target for Idiopathic Pulmonary Fibrosis
Maria Conti (Padova, Italy), Nicol Bernardino, Alvise Casara, Nadia Freato, Laura Bertocchi, Tommaso Neri, Alessandro Celi, Paolo Spagnolo, Marina Saetta, Manuel G. Cosio, Erica Bazzan

Population pharmacokinetic (pop-PK) model of GB0139 as a tool to characterise the biomarker response in patients with idiopathic pulmonary fibrosis (IPF)
Vassilios Aslanis (Copenhagen, Denmark), Darius Schweinoch, Alison Mackinnon, Nikhil Hirani, Jie Wang-Jairaj, Brigitta Bodák, Anne Kümmel

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 Prével (Bordeaux, France), Erwan Pernet, Sadek Abderrahmane, Shradha Wali, Kim Tran, Mina Sadeghi, Renata Sindeaux, Leonardo Jurado, Jérémy 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 Kleeneman, Timothy Hinks

PPARγ inhibits small airway remodeling through mediating 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 bronchial 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
Feilong Wang (Shanghai, China), Mengtian Shan, Linyu Ran, Huimin Wan, Quan Zhou, Shengjie Deng, Zhongliang Guo

Late Breaking Abstract - Large scale phenotyping of long COVID inflammation reveals mechanistic subtypes of disease.
Felicity Liew (London, United Kingdom), Claudia Efstathiou, Sara Fontanella, William Greenhalf, Matthew Richardson, Ruth Saunders, Rachael A. Evans, Louise V. Wain, Christopher Brightling, Lance Turtle, Ryan S. Thwaites, Peter J.M. Openshaw

Dysbiosis of lung commensal microbiota suppressed the progression of lung adenocarcinoma via spp1+ macrophages
jìn jìng (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, Amr Reihani, Pavithra Parthasarthy, Hemisha Patel, Ashgar Naqvi, Martin Kolb, Kjetil Ask

PS-11 in poster area

Poster session: Environment, occupation, and lung diseases

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

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

Session 08:00 - 09:30

05.07.2023
Outcome of artificial stone silicosis in an Italian cluster of patients
Paola Mason (Padova (PD), Italy), Marco Biasioli, Filippo Liviero, Piero Maestrelli, Stefania Vio

Silicosis in rutilated quartz miners in Brazil
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Jefferson Benedito Pires De Freitas, Rafael Futushi Mizutani, Gustavo Corrêa De Almeida, Mario Terra-Filho, Ubiratan De Paula Santos

OCCUPATIONAL TRENDS IN ASBESTOS-RELATED PLEURAL DISEASE (ARPD): DATA FROM THE SWORD SCHEME
Ruth Wiggins (Manchester (Greater Manchester), United Kingdom), Rheaonna Pereira, Laura Byrne, Ireny Y. K. Iskandar, Melanie Carmer, Christopher Barber, Martie Van Tongeren

Asbestos exposure, a cause of pleuroparenchymal fibroelastosis (PPFE)?
Christopher C. Huntley (Bromsgrove, United Kingdom), Sherwood Burge, Alastair Robertson, Madava Djeraman, John Reynolds, Gareth Walters

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

The Nintedanib in Progressive Pneumoconiosis Study (NiPPs): early data from Australia.
Aruvi Thiruvarudchelvan (Lidcombe, Australia), Louise Hart-Brown, Mark Bloch, Deborah Yates

RELATIONSHIP BETWEEN AIR POLLUTION IN COMUNIDAD DE MADRID AND THE DEVELOPMENT OF CHRONIC RESPIRATORY FAILURE IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Cristina Mariscal Aguilar, Carlos Carpio, Ester Zamarrón, Daniela Alloca, Isabel Esteban, María Fernández-Velilla, Gema Bonilla, Isabel Esteban, Rita Regojo, Concepción Prados, Rodolfo Alvarez-Sala

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

Exposure to mould in dwellings and respiratory/allergic/systemic symptoms in Italian children
Sara Maio (Pisa (PI), Italy), Giuseppe Sarno, Sandra Baldacci, Anna Angino, Ilaria Stanisci, Sofia Tagliaferro, Patrizia Silvi, Giovanni Viegi

Lung function, mercury exposure and chronic mountain sickness in gold miners at 5100m
Ahmet Sevik (Zuerich, Switzerland), Dominic Gilland, Renaud Persoons, Benoit Champigneulle, Julien Brugniaux, Samuel Verges, Michael Furian

Effects of hypobaric hypoxia on workers in a ski resort
Pedro José Romero Palacios (Pelígrin, Spain), Bernardino Alcázar Navarrete, Antonio Luis Arrebola Moreno, Juan Antonio Holgado Terriza, María Wenceslía Puya Pérez

Lung deposition patterns of anthracosis is related to air pollution environment by geolocalization in a temporal manner
Maria Julia Faci do Marco (Ribeirão Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimermam, Mateus Magalhães Lage Moraes, Alexandre Todorovic Fabro

Soot particles induce cytotoxicity, oxidative stress and inflammatory responses in structural lung cells linked to adverse health effects from exposure to polluted air.
Anna-Karin Larsson-Callerfelt (Lund, Sweden), Nilofar Faruqui, Sofie Orell, Jenny Rissler, Camilla Dondi, Konstantina Vasilatou, Ian Mudway, Monica Karedal, Michael Shaw

Association between Covid-19 pandemic and shift work: the COVISTRESS online survey
Elvia Giovanna Battaglia (Milano (MI), Italy), Monica Puligheddu, Rosamaria Lecca, Matteo Figorilli, Maria Livia Fantini, Maëlys Clinchamps, Frederic Dutheil, Pierluigi Cocco

Comparison of the immune response of respiratory healthcare workers to booster vaccination against SARS-CoV-2 and to a subsequent viral infection
Imre Barta (Budapest, Hungary), Viktória Szél, Imola Mán, Lilla Lőrinczi, Balázs Antus

Long-term risk of COVID-19 after extreme smoke exposure
Michael J. Abramson (Melbourne (VIC), Australia), Tyler Lane, Matthew Carroll, Brigitte Borg, Tracy Mccaffrey, Caroline Gao, Catherine Smith, David Brown, David Poland, Shantelle Allgood, Jillian Ikin
### Exposure to air pollution and respiratory diseases in adults: an innovative multipollutant approach
Sara Maio (Pisa (PI), Italy), Salvatore Fasola, Alessandro Marcon, Anna Angino, Sandra Baidacci, Maria Beatrice Bilò, Roberto Bono, Claudio Gariazzo, Stefania La Gruatta, Pierpaolo Marchetti, Pietro Pirina, Giuseppe Sarno, Patrizia Silvi, Camillo Silibello, Giulia Squillacioti, Massimo Staunfiglia, Ilaria Stanisci, Sofia Tagliaferro, Giuseppe Verlato, Giovanni Viegi

### Clinical and inflammatory profile before and after specific inhalation challenge in individuals with suspected occupational asthma to persulfate salts
MARIA SAEZ LOPEZ, Silvia Sánchez-Diez, Christian Romero Mesones, David Espejo, Iñigo Ojanguren, Maria Jesús Cruz, Xavier Muñoz

### Lung function impairment and COPD in workers from production of chemical materials for construction and engineering
Dragan Mijakoski (Skopje, North Macedonia), Sasho Stoleski, Jordan Minov, Aneta Atanasovska, Dragana Bislimovska, David Zdraveski, Jovanka Karadzinska-Bislimovska

### Influence of PM and NO2 exposure on long-term risk of hospital admissions due to COPD exacerbations in 3 Polish agglomerations
Artur Badyda (Warszawa, Poland), Piotr Dąbrowiecki, Agata Dąbrowiecka, Anna Piórkowska, Andrzej Chciałowski

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

**Poster session: New kids on the interstitial lung disease block: COVID-19 and checkpoint inhibitors**

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<th>Interstitial lung diseases</th>
<th>Respiratory critical care</th>
<th>Thoracic oncology</th>
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<td>Method(s)</td>
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<td>Imaging</td>
<td>Respiratory intensive care</td>
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<td>Veronika Müller (Budapest, Hungary), Raquel Guillamat Prats (Badalona, Spain)</td>
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**Cytoimmunological pattern of bronchoalveolar lavage in interstitial lung pathology related to post-COVID-syndrome: attempt to assess the predictive significance.**
Piotr Kopiński (Kraków, Poland), Grzegorz Przybylski, Ewa Wypasek, Ewelina Wędrowska, Tomasz Wandtke, Tomasz Senderek, Maciej Gagat

**Effects of COVID-19 on telomere length and its relationship to pulmonary fibrosis**
Alba Mulet Arabi (Valencia, Spain), Jaime Signes-Costa Miñana, Pilar González Cabo, Nora Jucute, Estrella Fernández Fabrellas, José Antonio Rodríguez Portal, José Antonio Ros Lucas, Ada Luz Andreu Rodriguez, Federico Pallardó Calatayud

**The inflammatory subtypes and vivo models of checkpoint inhibitor pneumonitis after immunotherapy**
Tingyue Luo (Guangzhou, China), Hangming Dong, Shaoxi Cai

**Prevalence and Management of Post Covid fibrosis in tertiary care unit – A single centre experience**
Sugeesha Wickramasinghe (Kadawath, Sri Lanka), Sharada Gudur, Thomas Southworth, Britney Vernon, Yussef Haider, Timothy Gatheral

**Physical exercise in post-COVID patients**
Vanessa Vicens Zygumt (Castelldefels (Barcelona), Spain), Pablo Carrasco, Miguel Berga, Ferran López, Héctor Sanchis-Gilabert, Anna Pulido-Expósito, Mariagna Sampere-Aymerich, Maria Jesús González-Frehina, Jaume Bordas-Martinez, Guadalupe Bermudo-Peloche, Maria Molina-Molina, Esther Garcia-Lerma, Cristian Tebè-Cordomi, Guillaume Lefebvre, Rosa Planas-Balague

**Enhanced liver fibrosis (ELF) test as a biomarker of pulmonary fibrosis (PF) secondary to COVID-19 pneumonia.**
Alexa Gabriela Nuñez Dubon (Barcelona, Spain), Cristina Aljama, Cristina Esquinas, Gerard Orruols, Georgina Farago, Galo Granados, Pablo Gabriel-Medina, Francisco Rodriguez-Frias, Mónica Pons, Marc Miravitlles, Miriam Barrecheguren

**Role of virtual multidisciplinary team meetings in the post-COVID era: a global survey to evaluate the ILD diagnostic pathway**
Graham Lough (Glasgow, United Kingdom), Rayid Abdulqawi, Gina Amanda, Katerina Antoniou, Arata Azuma, Ahmed Bayoumy, Milind Baldi, Jürgen Behr, Elisabeth Bendstrup, Demosthenes Bouros, Kevin Brown, Nazia Chaudhuri, Tamera J Corte, Vincent Cottin, Bruno Crestani, Kevin Flaherty, Ian Glaspole, Leticia Kawano-Dourado, Michael Keane, Martin Kolb, Fernando J Martinez, Maria Molina-Molina, Ferran Morell, Iñigo Ojanguren, Laurence Pearmain, Ganesh Raghu, Paola Rottoli, Stefan Cristian Stanel, Gabriela Tabaj, Carlo Vancheri, Brenda Varela, Bonnie Wang, Athol Wells, Pilar Rivera-Ortega

**SAFETY PROFILE OF PIRFENIDONE IN COVID19 RESPIRATORY DISTRESS SYNDROME**
Marta Hernández Argudo (Barcelona, Spain), Guadalupe Bermudo-Peloche, Maria Molina-Molina, Vanessa Vicens Zygumt, Guillermo Suarez Cuartín, Jaume Bordas Martinez, Salud Santos Perez, Santiago Bolivar Cuevas, Belen Del Rio Carrero, Joan Sabater Riera, Mari Paz Fuset Cabanes
Long-COVID syndrome and interstitial lung disease following COVID-19
Dorottya Fesu (Érd, Hungary), Lorinc Polivka, Emiko Barczi, Marcell Foldesi, Gabor Horvath, Aniko Bohacs, Veronika Muller

Characterization of fibrosis-associated pathways in human lung tissue samples in COVID-19 and fibrotic lung diseases
Cathrin Kodde (Berlin, Germany), Torsten Blum, Tilman Klassert, Svea Eichler, Sergej Griff, Dominik Driesch, Armin Frille, Lothar Jaensch, Marco Von Ham, Ana Salas Pérez, Susann Stephan-Falkenau, Hortense Slevogt, Torsten Bauer

Neuroendocrine Cell Hyperplasia of Infancy (NEHI) during the Pandemic Era.
Vasilis Grammeniatis (Athens, Greece), Marios Papadopoulos, Elisavet Arkoumani, Efthymia Alexopoulou, Kostas Priftis, Koostas Douros

The risk factors for developing post COVID-19 pulmonary fibrosis
Adriana Petronela Fildan (Constanta (Constanta), Romania), Roxana-Elena Cirjaliu, Doina-Ecaterina Tofolean, Elena Dantes, Oana Cristina Arghir, Laurenţiu-Tony Hangan

Comparative study assessing the pulmonary function sequalae in post Covid -19 patients during 1st and 2nd wave.
Rajesh Agrawal (Bareilly, India), Chinkita Agrawal, Javied Ahmad Malik

Checkpoint inhibitor pneumonitis – a tertiary centre’s experience
Su Latt Phyu (Oxford, United Kingdom), Nicholas Coupe, Miranda Payne, Ling-Pei Ho, Emily Fraser, Rachel Hoyles, Peter Saunders

Bronchoalveolar Lavage and post-COVID-19 interstitial lung disease
Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Racem Ammar, Hamida Kwas

Interstitial lung disease pattern in the upper lobes: etiologies, characteristics and prognosis
BOUGACHA MARWA (tunis, Tunisia), Chirine Moussa, Houda Rous, Line Kaabi, Fetene Mhiri, Amel Khattab, Leila Bayahi, Ibthel Khouaja, Ines Zendah, Sonia Maalej

Epidemiology and antifibrotic therapy of post-COVID-19 interstitial lung disease.
Oleh Yakovenko (Lutsk, Ukraine), Alexander Khanin, Tetiana Yakovenko

Late Breaking Abstract - Characterising cough in hypersensitivity pneumonitis
Zhe Wu (London, United Kingdom), David J.F Smith, Leda Yazbeck, Toby M Maher, Jaclyn A Smith, Philip L Molyneaux

Late Breaking Abstract - Surfactant related chILD: a systematic review
Georgia-Emmanouela Dendrinou (ATHENS, Greece), Athanasios Kondylis, Maria Christodoulou, Konstantinos Douros

Late Breaking Abstract - Inhaled BT1615 regulates lung fibrotic-niche via confining TGF-β1 pathway in bleomycin rat-model
Qiu Jiang (Chengdu, China), Rui Chen, Ling Xiao, Fei Wang, Suxia Shi, Ruijun Cheng, Yan Zhang, Na Wang, Pan Zhong, Jiabao Yue, Xiaomei Li, Yi Ding

PS-14 in poster area
Session 08:00 - 09:30

Poster session: Pleural and miscellaneous infections
Disease(s): Airway diseases Respiratory critical care
Method(s): Endoscopy and interventional pulmonology Epidemiology General respiratory patient care Respiratory intensive care Public health Imaging Pulmonary rehabilitation Surgery
Chair(s): Eric Mortensen (Simsbury, United States), Chair to be confirmed

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 à 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 Steneghem, 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, Aidee Jafri

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
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<td>Haruka Fujioka (Kamogawa, Japan), Yuya Homma, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima</td>
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<td>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</td>
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<td>Prognostic factors of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients: A multi-centre, retrospective, observational cohort study (RE-VISION-PCP)</td>
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<td>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)</td>
<td>Tatsuya Nagai (Kamogawa, Japan), Haruka Fujioka, Yuya Homma, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima</td>
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<td>Impact of bronchoalveolar lavage on the management of immunocompromised hosts</td>
<td>Kathleen Jahn (Basel, Switzerland), Meropi Karakioulaki, Desiree Schumann, Hans Hirsch, Karoline Leuzinger, Letizia Grise, Stefano Alberti, Giovanni Sotgiu, Michael Tamm, Daiana Stolz</td>
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<td>Clinical outcomes of haematological patients undergoing bronchoscopy in a registry of immunocompromised patients evaluated for pulmonary infections.</td>
<td>Eugene Gan (Singapore, Singapore), Brian Chua, You Xin Puan, Timothy Toh, Saripalli Kundan Reddy, Isaac Fong, Deshawn Tan, Yi Hern Tan</td>
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<td>Burden of hospitalized adult pertussis in France, 2008-2020</td>
<td>Denis Macina (LYON, France), Mickael Arnaud, Johanna Despres, Ana Antunes, Regis Verdier, Juan C Vargas Zambrano</td>
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<td>Antibiotic treatment strategies in a Danish cohort of patients with lung abscesses.</td>
<td>Søren Sperling (Aarhus N, Denmark), Victor Naechtolf Dahl, Jakob Kirkegaard Vaarst, Christian Borbjerg Laursen, Tina Nørregaard Gissel, Pia Holland Gjørup, Andreas Floe, Elisabeth Bendstrup</td>
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<td>Pulmonary nocardiosis as an emerging infection in non-cystic fibrosis bronchiectasis</td>
<td>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</td>
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<td>Biochemical parameters predicting diagnosis of melioidosis pneumonia: a retrospective observation analysis</td>
<td>Han Jia Chew (SARAWAK, Malaysia), Yee Yew Loong, Tung Ung John Tang, Cheng Foong Cheah</td>
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<td>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</td>
<td>Syed Muhammad Zubair (Karachi, Pakistan), Muhammad Mustansir Mehdi Khan, Yasmin Rahim, Hamza Ahmed Ibad, Muhammad Irfan</td>
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<td>Lung contusion due to military chest injury as a risk factor for bacterial pneumonia and other respiratory infections.</td>
<td>Oleh Yakovenko (Lutsk, Ukraine), Eduard Khodosh</td>
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<td>Accuracy of A2DS2 score as a predictor of stroke associated pneumonia (SAP) and in-hospital death among acute stroke patients admitted in a cardiovascular center in Metro Manila, Philippines</td>
<td>Kelvin Mar Bartolome (Quezon City, Philippines), Ma. Encarnita Blanco-Limpin, Aileen Guzman-Banzon</td>
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<td>Bacteriological spectrum and drug susceptibility in post tuberculosis bronchiectasis</td>
<td>Tehreem Ahmad (Karachi, Pakistan), Faisal Faiyaz Zuberi</td>
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<td>The Neutrophil-to-Lymphocyte ratio as a biomarker of severity in bronchiectasis</td>
<td>Mariem Friha (Ariana, Tunisia), Ines Moussa, Hana Mrassi, Sarra Ben Sassi, Sarra Trimech, Chirine Zaier, Imen Sahnoun, Leila Douik El Gharbi</td>
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**Session 08:00 - 09:30**

**Posters area**

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

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

**Chairs:** ARGYRIS TZOUVELEKIS (Patras, Greece), Vanesa Vicencs Zygmun (Castelldefels (Barcelona), Spain)

**Impact of Bifidobacterium longum BB536 on nausea caused by pirfenidone in a mouse model of pellagra**

Koji Kuronuma (Sapporo, Japan), Natsumi Susai, Takeshi Yoshioka, Atsushi Saito, Hirofumi Chiba
Fcor/FOXO1 axis regulates GLUT1-mediated mitochondrial oxidative stress and metabolic reprogramming in angiotensin II-induced fibroblast activation
Wei Wang (Guangzhou, China), Ying Meng

Novel waveform analysis reveals persistent pathophysiological changes in rodent model of pulmonary fibrosis
Maria Volovaya (London, United Kingdom), Miqel Serna Pascual, Yujia Wu, Philip Aston, Carolyn Lam, Aileen Milne, Mary Mcelroy, Manasi Nandi

Regenerative capacity of alveolar type 2 cells is proportionally reduced following disease progression in IPF-derived organoid cultures
Hyeon Kyu Choi (Souel, Republic of Korea), Ju Hye Shin, Mi Hwa Shin, Ala Woo, Sang Hoon Lee, Eun Young Kim, Hyo Sup Shim, Ha Eun Kim, Joo Hyeon Lee, Chul Hoon Kim, Moo Suk Park

Abnormal phosphorylation of Per2 induces myofibroblast transformation and promotes the development of pulmonary fibrosis
Mei Chen (Chengdu (Sichuan), China), Lian Liu

Data-driven processing of electronic medical record (EMR) and serum exosome proteomics data of idiopathic pulmonary fibrosis (IPF) patients identified pathological networks and its regulatory molecules
Mari Nogami-Itoh (Ibaraki-shi, Japan), Masataka Kuroda, Yoshito Takeda, Yuya Shirai, Takatoshi Enomoto, Jun Adachi, Sadao Kurohashi, Eiji Aramaki, Yoshihiro Takeda, Yasushi Matsumura, Masahiro Yanagawa, Yayoi Natsume-Kitatani, Kenji Mizuguchi, Naomichi Ueda, Atsushi Kumanogoh

Bleomycin does not directly cause fibrosis in precision-cut lung slices, PCLS
Satoshi Kanazawa (Nagoya, Japan), Yoko Miura

A multicenter study of extracellular vesicles profile in bronchoalveolar lavage from patients affected by IPF, HP and sarcoidosis
Miriana d'Alessandro (Siena, Italy), Sara Gangi, Piera Soccio, Elisabet Cantó, Ruben Osuna, Laura Bergantini, Paolo Cameli, Gaia Fabbri, Sara Croce, Giulia Scioscia, Giorgia Moriondo, Giusy Montuori, Matteo Fanetti, Fabrizio Mezzasalma, Diego Castillo, Donato Lacedonia, Silvia Vidal, Elena Bargagli

Aging disturbed lysosomes to modulate efferocytosis-induced SPP1-expressing macrophage and inhibit pulmonary fibrosis reversal
Yue Zhang (Guangzhou, China), Hua Zhang

Use of invasive lung function assessment (DSI/Buxco) to quantify changes in lung function parameters in a rat bleomycin model of lung fibrosis.
Mary McElroy (Edinburgh (Edinburgh), United Kingdom), Rachel Macfarlane, Jennifer Dowie, Kirsten Maclellan, Shyloh Solomon, James Baily

Iron status and the risk of idiopathic pulmonary fibrosis: a mendelian randomization study
Jian Zhou (Chengdu, China), Menglin He, Rurong Wang, Xuehan Li

Microcomputed tomography to study the in vivo development of IPF-like disease in conditional Nedd4-2 deficient mice
Dominik Leitz (Berlin, Germany), Philip Konietzke, Willi Wagner, Julia Duerr, Hans-Ulrich Kauczor, Marcus A. Mall, Mark O. Wielpütz

Cecilia Bagnera (Pavia, Italy), Sara Bozzini, 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, Hiroshi Ogawa, Kojin Murakami, Yuya Yamashita, Nandine Erden Dzan, Hiroki Bando, Keiko Haji, Nobuhito Naito, Hiroshi Kawano, Eiji Hara, Yasuhiko 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
Roberta Fusco (Messina, Italy), Veronica Codullo, Sara Bozzini, Eleonora Bozza, Cecilia Bagnera, Rosanna Di Paola, Silvia Arpicco, Federica Meloni, 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 Demasi, 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, Onyu Park, Seoyeong Baek, Xiaoxu Li, Alessia Demasi, 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, Ju Hye 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, Olivia Slettengren, Madeleine Engsevi, Johan Jirholt, Martin Hemmerling

PS-7 in poster area

Session 08:00 - 09:30
Poster session: Unravelling the potential of interleukin-5 pathways in asthma

Disease(s): Airway diseases

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

Chairs: Asger Sverrild (Valby, Denmark), Zuzana Diamant (Lund, Sweden)

Mepolizumab improves small airway disease in severe eosinophilic asthmatics
Francesca Cefaloni (Rome, Italy), Cristina Boccabellia, Luca Richeldi, Matteo Bonini

A retrospective cohort study to determine if Interleukin 5 inhibitors reduce oral corticosteroid burden in Severe Asthma in real life
Zoe Chan (leeds, United Kingdom), Dinesh Saralaya, Janice Ting

Mepolizumab for the treatment of Eosinophilic Granulomatosis Polyangiitis(EGPA) at Jersey General Hospital: A case review series; clinical features, diagnostic tests and management.
Kesavaperumal Vijayasaratha (Birmingham, United Kingdom), Duarte Vieira, Karen Hughes, Elisabete Da Silva

Mepolizumab and Benralizumab: new therapeutic perspectives for Severe Eosinophilic Asthma and Eosinophilic Granulomatosis with Polyangiitis
Paola Scarano (Roma, Italy), Cecilìa Cistermino, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Alessia Steffanina, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani

Long-term effectiveness of Mepolizumab in patients with refractory severe eosinophilic asthma.
BELEN Muñoz Sánchez (Sevilla, Spain), Francisco Javier Álvarez Gutiérrez, Juan Francisco Medina Gallardo, Auxiliadora Romero Falcón, María Victoria Maestre Sánchez, Ana Gomez Bastero Fernández, Stefan Cimbollek, Julio Delgado Romero, Ana Ruiz Bernal, Marta Ferrer Galvan

Real-world effectiveness and characteristics of Super-Responders to Mepolizumab and Benralizumab in severe eosinophilic asthma and EGPA
Andrea Portacci (Taranto, Italy), Raffaele Campisi, Enrico Buonamico, Santi Nolasco, Corrado Pelaia, Nunzio Crimi, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiaffa, Giulia Scioscia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papa, Alessandra Tomasello, Nicola Scichilone, Girolamo Pelaia, Claudia Crimi, Giovanna Elisiana Carpanagno

Disease remission in severe asthma patients on mepolizumab treatment and its duration after treatment discontinuation.
Piotr Damiański (Lodz, Poland), Piotr Kuna, Maciej Kupczyk

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

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

Implementation of the FEOS score in patients with severe eosinophilic asthma treated with Reslizumab.
Katiuska Herminia Liendo Martinez (madrid, Spain), Crishian Alonso Correa Gutierrez, Stephany Ivonne Briones Alvarado, Manuel Mor Martinez, Luis Puente Maestu, Julia García De Pedro

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), Ferdinando Damato, Antonio Caso, Alessandra Bruno, Lorena Gallotti, Anna Agnese Stanziola
Outcomes of blocking IL-5 in severe asthma elderly patients
David Bahas Conejero (Madrid, Spain), Eva Martínez Moragón

Benralizumab effectiveness in patients with severe asthma regardless of prior biologic use: A real-world Canadian experience
Parameswaran Nair (Hamilton (ON), Canada), Sheena Kayaniyil, Charles St. Pierre, Katherine Osenenko, Tina Li, Karissa Johnston, Gina Lacuesta, Irfan Khan, Syed Anees, Yew Hon Lai, Parisa Rahimi, Vivek Dhawan, Delbert Dorscheid, Andréanne Côté

Impact of age on the efficacy of mepolizumab in severe uncontrolled asthma

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 Cândido (Naples, Italy), Francesco Coppa, Maria D'Amato, Debora Paris, Annabella Tramice, Pasquale Ambrosino, Antonio Molino, Antonio 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
Girolamo Pelaia (Tiriolo (CZ), Italy), Alicia Padilla-Galo, 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 Searano, Arianna Sanna, Francesca De Filippis, Alessia Steffanini, Paolo Palange, Elda Graziani

Late Breaking Abstract - Anti-IL-5 therapy is associated with sustained improvement in FEV1 in severe eosinophilic asthma patients.
Nathan Blekic (Uccle, Belgium), Alain Van Mylen, Jean-Pierre Makhoul, Amaryllis Haccurria, André Malinovschi, Alain Michils

Late Breaking Abstract - Durability of response after 96 weeks of treatment with benralizumab: results from the Italian ANANKE study
Giorgio Walter Canonica (Milano (MI), Italy), Maria Aliani, Elena Altieri, Pietro Bracciale, Luisa Brussino, Maria Filomena Caiàffà, Paolo Cameli, Cristiano Caruso, Stefano Centamini, 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, Silvia Boarino, Alessandra Vultaggio
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, Eilli Keramida, Elena Bellou, Fotis Kyriakou, Despoina Zorpidou, Panagiotis Demertzis, Nikolaos Anastasiou

The clinicopathological characteristics of 1139 cases of small cell lung cancer patients
Lei Li (Chengdu (Sichuan), China), Liang Zhou, Weimin Li

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

Clinicopathological features and prognostic factors of lung adenocarcinoma in never smokers
Lane Yang (Chengdu, China), Dan Liu, Weimin Li

Agreement between clinical and pathologic stage in NSCLC; the T component
Diogo André Barroso Ferreira (Vila Nova De Famalicão, Portugal), Patricia Castro, Marta Castro, Margarida Dias, Daniel Coutinho, Eloisa Silva, José Miranda, Ana Barroso

Survival of patients with KRAS G12C mutated stage IV non-small cell lung cancer with and without brain metastases treated with immune checkpoint inhibitors

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

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

Impact of COPD on lung cancer symptom burden: A population-based study
Stacey J Butler (Toronto, Canada), Alexander V Louie, Rinku Sutrathar, Lawrence Paszat, Dina Brooks, Andrea S Gershon

HIV accelerates the development and progression of lung cancer: a single-centre prospective study
Raisa Bhikoo (Cape Town, South Africa), Brian Allwood, Elvis M Irusen, Coenraad Fn Koegeleenberg

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, Raminder Atul, Yee Ean Ong, Adrian Draper

Has the covid pandemic influenced the diagnosis of patients with lung cancer?
Imanol Gonzalez Muñoz (Barakaldo, Spain), Jone Solorzano Egurdebe, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gonzalez Quero, Edurne Echevarria Guerrero, Laura Cortezon Garces, Teresa Bretos Duronosoro, Larraitz Garcia Echeberria

Impact of coronavirus disease 2019 on the clinical course of thoracic malignancies
Osamu Kanai (Kyoto, Japan), Takamori Itó, Zentaro Saito, Takuma Imakita, Issei Oi, Yuki Yamamoto, Kohei Fujita, Masayuki Hashimoto, Hiromasa Tachibana, Satoru Sawai, Tadashi Mio

Clinical Profile and Outcomes of Patients with Primary Intra thoracic Cancer who were admitted due to COVID 19 at Lung Center of the Philippines
IVARRENE CAHINDE (PALO, Philippines), John Carlo Custodio, Guia Elena Ladrera

Late Breaking Abstract - Did changes in referral pathways during the Covid 19 pandemic influence lung cancer diagnosis and staging
Zanfur Khan (Shipley, United Kingdom), Kwee Yen Goh, Abhishek Gupta, Sanjay Kumar

Metastatic lung cancer: another symptom of Long COVID?
Rebecca Evans (London, United Kingdom), Rohan Pancharatnam, Burhan Khan

PS-4 in poster area

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

Chairs : Reinoud Gosens (Groningen, Netherlands), Serena Di Vincenzo (Palermo (PA), Italy)
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

The effect of highly selective furin inhibition on matrix metalloproteinases in cystic fibrosis
Bethany Montgomery (Belfast, United Kingdom), Lisa Douglas, Tatjana Ondrliji, Lorraine Martin

The emergence of myeloid-derived suppressor cells in a murine model of pulmonary fibrosis
Saeed Kolahian (Marburg, Germany), Nora Vedder, Philipp Gercke, Nikoleta Lautenschlager, Chiel Van Geffen, Jakob Schieb, Tobias Brunn, Tim Lange, Charlotte Vetter, Harald Renz

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 Pitsianakis, Nikolaos Tzanakis, Katerina M. Antoniou

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

Loss of PTEN activity in COPD airway epithelial cells is modulated by miR-21
Vanessa Ho (London, United Kingdom), Jonathan R Baker, Keith R Willison, David R Klug, Peter J Barnes, Louise E Donnelly

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

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

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 Inguinta

The activity of the anti-inflammatory mediator lipoxin A4 in COPD
Natalia Habshydz (Dnipro, Ukraine), Tetyana Pertseva, Nataliia Sanina, Svitlana Panina

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, Paweł Antoni Kołodziejski, Ewa Pruszyńska-Osmałek, Anna Łukomska, Maciej Sassek, Dawid Szczepankiewicz, Aleksandra Szczepankiewicz

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 Gülsüm Karakas (erzurum, Turkey), Zeynep Ferhan Özşeker

Smad3-mediated lncRNA 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 Boiariina, Andreas C. Hocke, Olga Danov, Katherina Sewald, Birgitt Gutbier, Martin Russ, Philipp A. Pickerodt, Claudia Spies, Mei Li, Laura Michalick, Jörg Scheffel, Marcus Maurer, Heinz Fehrenbach, Norbert Sutorp, Armin Braun, Norbert Weissmann, Wolfgang M. Kuebler, Martin Witzenrath
Hypoxia activates caspase-1 in pulmonary epithelium, inducing caspase-1-dependent pulmonary inflammation in the development of pulmonary hypertension
Karl-Otto Larsen (Oslo, Norway), Bente Halvorsen, Xiang Yi Kong, Kuan Yang, Else Marit Løberg, Geir Christensen, Ole Henning Skjønsberg, Camilla Udjus

AhR controls pulmonary inflammation from cannabis smoke
Emily Wilson (Montreal, Canada), David Eidelman, Carolyn Baglole

PS-2 in poster area

08:00 - 09:30
Session
Poster session: Novelties in lung function testing

Disease(s) : Airway diseases Interstitial lung diseases
Method(s) : Physiology Pulmonary function testing
Chairs : Gergely H. Fodor (Szeged, Hungary), Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France)

Comparing patient experiences of FOT and Spirometry - A survey
Shruti Sahasrabudhe (Pune (Maharashtra), India), Nagesh Dhadge, Kameshwar Rao, Harshvardhan Vhora, Reenkal Ahire

A randomised controlled trial of self vs clinician-taught home spirometry
Caitlin Morgan (Taunton, United Kingdom), Daniel Higbee, Catherine Dixon, Emma Buckroyd, Huzaifa Adamali, Shaney Barratt, Rahul Shrirmanker, Paul White, James Dodd

Validation of the 2012 Global Lung Initiative spirometry prediction equations in an East African country
Hussein Mwanga (Dar es Salaam, Tanzania), Simon Mamuya, Bente Elisabeth Moen, Cecilie Svanes

Study of the reversibility rate according to different definitions of ATS/ERS
Omayma Ben Lakhal (SFAX, Tunisia), Hela Cherif, Amal Chennoufi, Salma Mokadem, Mariem Triki, Ferdaous Yengui, Mohamed Ridha Charfi

Impact of the 2021ATS/ERS update criteria on the bronchodilator responsiveness test result
Beatriz Martins (São Mamede De Infesta, Portugal), Pedro Amorim, Miguel Narciso, Anabela Marinho

Bronchodilator responsiveness in Patients with Asthma and COPD: 2005 vs 2021 ERS/ATS criteria
Chaima BRIKI (ariana, Tunisia), Khouloud Kchaou, Balsam Barkous, Sirine Jamli, Saloua Ben Khamsa Jameleddine

Temporal validation of a clinical prediction model for methacholine challenge testing
Mathieu Saint-Pierre (Ottawa, Canada), Joseph Abdulnour

Etiological and functional characterization of mixed ventilatory impairment in Tunisian patients
Balsam Barkous (ARIANA, Tunisia), Khouloud Kchaou, Soumaya Khalidi, Chaima Briki, Sirine Jamli, Saloua Ben Khamsa Jameleddine

Role of vitamin D in modulating inflammation in obesity-associated asthma.
Naouel Chibout (Constantine, Algeria), Mohamed Bougrida, Omar Chabati, Mohamed Kheireddine Bourahli

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, 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

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 Kouis, Panayiotis K. Yiallourou, 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 Ratuarkorn, 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 Guetzquez, 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 Guetzquez, Sonia Rouatbi, Ines Ghannouchi

Disease Severity and Ongoing Inflammation after Sars-Cov-2
Catherine Farrow (Westmead, Australia), Robert Robles, Terance Amis, Kristina Kairaitis

PS-20 in poster area

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
Chairs : Anna Kerpel-Fronius (Budapest, Hungary)

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
Wallace Wee (Toronto (ON), Canada), Brandon Zanette, Samal Munidasa, Sharon Braganza, Daniel Li, Rachel Eddy, Jonathan Rayment, Felix Ratjen, Giles Santyr, Sharon Dell

Seven years of functional lung MRI in children: experiences of more than 900 matrix-pencil decomposition (MP-)MRI measurements in clinics and research
Carmen Streibel (Bern, Switzerland), C Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Enno Stranzinger, Ben Brabandt, Marion Curdy, Yasmin Salem, Carmen Casaulta, Insa Korten, Sophie Yammine, Philipp Latzin, Elisabeth Kieninger

Higher pulmonary artery and vein volumes are associated with disease severity and mortality in smokers with and without COPD

Radiologic features of COPD exacerbations: quantitative analysis of thorax computerised tomography
Selin Ercan (Izmir, Turkey), Ali Canturk, Emre Ruhat Avci, Naciye Sinem Gezer, Saliha Selin Ozuygur Ermis, Gozde Tokatl, Gokcen Omeroglu Simsek, Pinar Balci, Aylin Ozgen Alpaydin

Defining a CT phenotype of severe COPD patients who develop hypercapnia
Renzo Boersma (Groningen, Netherlands), Peter Wijkstra, Jorine Hartman, Marieke Duiverman

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, Shuichiho Ohata, Yoriyuki Murata, Yoshikazu Yamata, Maki Asami-Noyma, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga

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 Burlan

Comparison of HRCT and SPECT in the estimation of emphysema heterogeneity for endoscopic lung volume reduction
Meropi Karakioulaki (Freiburg im Breisgau, Germany), Tim Jonas Hallenberger, Desiree Schumann, Michael Tamm, Daiana Stolz
Optimized detection of pulmonary emphysema on CT scans of lung cancer screening participants
Hailan Liu (Groningen, Netherlands), Daiwei Han, Marleen Vonder, Marjolein Heuvelmans, Jaeyoun Yi, Zhaoxiang Ye, Harry De Koning, Matthijs Oudkerk

The clinical significance of CT-Thorax in the assessment of difficult to treat Asthma
AMER ALMAGRABI (BIRMINGHAM, United Kingdom), Ali Bahrab, Julie Marsh, Adel Mansur

Needle based confocal laser endomicroscopy for real-time granuloma detection
Tess Kramer (Amsterdam, Netherlands), Saskia Van Heumen, Lizzy Wijmans, Christopher Manley, Sandeep Bansal, Dawn Jeannerat, Martijn De Bruin, Peter Bonta, Jouke Anenna

Sensitivity of chest x-ray for visualisation of one brand of indwelling pleural catheter
Sophie Edgell (Newcastle, Australia), John Harrington, Vineeth George

HRCT composite fibrosis score correlates with clinical and physiological parameters in IPF
Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lenne Collatz Laustrup, Saher Burhan Shaker

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, Raymond Endozo, Robert Shortman, Ashley M Groves, Joanna C Porter

Assessing the impact of local lung cancer screening on our regional interstitial lung diseases service
Raja Mathusami (Hereford, United Kingdom), Shiva Bismalka, Imran Hussain, Helen Stone

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

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

Observer agreement in the diagnosis of interstitial lung diseases
Rebecca Saray Marchesini Stival (Rio Grande (RS), Brazil), Pedrazzani Bruno, Arielle Haagsma, Cristina Pellegurino Baena

Spirometry and chest HRCT abnormalities in symptomatic and asymptomatic patients with inflammatory bowel disease
Asmata Mohammed Elshazly (Alexandria, Egypt), Rasha Dabees, Mahmoud Reda, Fahmy Hablas, Ahmed Samir, Nashwa Abdel-Wahab

PS-12 in poster area Session 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

Chairs : Marieke Verkleij (Amsterdam, Netherlands), Jeannette Jacobs-Peters (Nijmegen, Netherlands)

The influencing factors of depressive symptom trajectories among COPD patients
Cui Wang (Beijing, China), Hongbo Chen, Peiyuan Liu, Ziqiu Zou, Shaomei Shang

Impact of Shared Decision Making on medication adherence in patients with COPD and/or asthma: The ANANAS study.
María Achterboschm (Groningen, Netherlands), Priya Vart, Liset Dijk, Van, Job Boven, Van

Improving depression symptoms in COPD patients through home-based pulmonary rehabilitation with health coaching
Maria Benzo (Rochester, United States), Madison Roy, Roberto Benzo

COPD-related anxiety: A systematic review of patient perspectives.
Camilla Fischer Christiansen (Borkop, Denmark), Anders Lokke, Vibeke Bregnballe, Thomas Prior, Ingeborg Farver-Vestergaard

COVID-19 vaccination hesitancy in the European population aged 50+
Anna Boros (Warszawa, Poland)
The use of a questionnaire underpinning Capability, Opportunity, and Motivation to determine the psychological and behavioural barriers to adherence in patients with asthma (The COM-Behaviour asthma study).
Alice Munns (Kent, United Kingdom), Laura Wiffin, Daphne Kaklamanou, Ina Kostakis, Alessandra Fasulo, Thomas Brown, Anoop Chauhan

Neurocognitive and Neuropsychiatric Sequelae of Long COVID (LC) patients (pts)
Paraskevi Katsanouou (Athens, Greece), Evniki Nitipopoulou, Maria Karytinou, Sofia Margariti, Sofia Sideri, Katerina Poprelka, Theodoros Fasilis, Panayiotis Patrikelis, Maria Stefanatou, Archoudoula Adonoglou, Sofia Pappa, Stylianos Gatzonis

Emotions associated with bouts of cough. A study in patients with refractory/unexplained chronic cough
Ebymar Arismendi Nunez (Vilassar de Dalt, Barcelona, Spain), Luis Puente-Maestu, Ignacio Dávila, Santiago Quirce, Francisco Javier González-Barcala, Luis Cea-Calvo, Marta Sanchez Jareño, Cristina Rivas-Pardinas, Christian Domingo-Ribas

Measuring the stigma of long COVID: principles and practices transferrable to other stigmatizing respiratory conditions
Ronald Damant (Edmonton (AB), Canada), Liam Rourke, Ying Cui, Grace Lam, Maeve Smith, Desi Fuhr, Jacqueline Tay, Rhea Varughese, Cheryl Laratta, Angela Lau, Eric Wong, Mike Stickland, Giovanni Ferrara

A qualitative study explaining family-management of children’s and young people’s asthma in the changing COVID-19 context
Grace Lewis (Leeds, United Kingdom), Linda Milnes, Alexandra Adams, Jürgen Schwarze, Alistair Duff

Non-Invasive Ventilation (NIV) in people affected by COVID-19 pneumonia: evaluation between acute and rehabilitation settings
Eleonora Volpato (Milano (MI), Italy), Paola pierucci, valentina poletti, Lavinia Di Palma, Alessandro Pilon, Giovanna Elisiana Caragnano, Laura Fagetti, Paolo Banfi

Sleep disorders between COVID-19 survivors with different levels of fear of COVID

The usefulness of relationships assessing between personality dimensions as an element differentiating patients with obstructive sleep apnea.
Paweł Kwiecień (Warsaw, Poland), Joanna Domagala-Kulawik

Effectiveness of brief referral methods for smoking cessation – a literature review
Mads Hansen (Odense C, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke

Anxiety, depression and PTSD in COVID-19 survivors with and without invasive mechanical ventilation
Fernando Casarin López (Mexico City, Mexico), Viridiana Peláez Hernández, Adrian Rosas Trujillo, Celia Deyanira Ledesma Ruiz, Ana Patricia Pedro Portillo, Diana Everanda Torres Gómez, Mauricio Reyes Franco, Liseth Sarai Cañada Ordoñez, Arturo Goula Medina, Luz Jiménez Gallardo, Rocío Sánchez Santillán, Arturo Orea Tejeda, Alvaro Montañez Orozco

Smoking behavior of the Tunisian physicians
Hana Mrassi (Tunis, Tunisia), Hanen Smadhi, Ines Akroud, Hela Hassene, Imen Nouira, Lamine Megdiche

A survey exploring the characteristics of current and former smokers with suspected lung cancer
Ingeborg Farver-Vestergaard (Vejle, Denmark), Mojtaba Saeti, Morten Borg, Ole Hilberg, Anders Løkke
Poster session: COVID-19 biomarkers

Disease(s): Respiratory critical care, Airway diseases

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

Chairs: Ignacio Martin-Loeches (Dublin, Ireland)

**LSC - 2023 - Elevated CD27-IgD- B cells in Post-Acute COVID-19 Sequalae Patients with Rheumatological Symptoms**
Nadia Suray Tan (Hamilton, Canada), Kayla Zhang, Joshua F.E. Koenig, Snehal Somalwar, Nardien Sedhom, Mei Nee Chiu, Rameen Jamil, Zil Patel, Margaret Larché, Terence Ho, Sarah Svenningsen, Dawn M.E. Bowdish, Manel Jordana, Konstantinos Tselios, Manali Mukherjee

**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 Guzonić, Danica Cuic, Dejan Zujović

**Balance between neutrophil extracellular trap formation and DNase activity in COVID-19 patients: a prospective cohort study**
Renaud Prével (Bordeaux, France), Geoffrey Garcia, Sylvie Colomer-Labrouche, Alexandre Duvignaud, Etienne Clequin, Charles Dussiau, David-Alexandre Tregouët, Denis Malvý, Julien Goret, Maria Mamani-Matsuda, Antoine Dewitte, Chloe James

**Levels of inflammatory and cardiometabolic biomarkers as a predictor factor for complications and outcomes in hospitalized COVID-19 patients**
Nona Rovira Ribalta (Solsona, Spain), Catia Cilloniz, Ruben López-Aladid, Ana Motos, Josep Lluis Bedini, Alba Soler-Comas, Roberto Cabrera, Kasra Kiarostami, Blanca Llouch, 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 Carrió Collado, José Raúl Herance, Miguel García Del Toro, Estrella Fernández-Fabrellas, Juan José Tamarit

**Altered peripheral blood neutrophil profiles are associated with persistent symptoms post-COVID19**
Chloë 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 Abo-Leyah, Thomas Pembridge, Lilila Delgado, Rebecca C Hull, Benjamin Jm New, Rebecca Dowey, Helen Turton, Alison M Condliffe, James D Chalmers, A A Rodger Thompson

**TSLP gene polymorphisms and alarmin protein levels in COVID-19**
Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Watti, Lesley Wiltshire, 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**
Nuttinthan Nalinthasnai (Bangkok, Thailand), Dararat Ekombatchai, Viboon Boonsarngsus, Pongdhep Theerawit, Yuda Sutherasan, Detajin Junhasasvidkul, Somnuek Sangkunaphur, Tanapat Tassaneyasin, Ratchainant 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 Watti, 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 Balestro
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 Palomeneque, Ferran Barbé, 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, Brinthia Selvarajah, Toby Hillman, Melissa Heightman, Jeremy S Brown, Markus Ralser, Joanna C Porter

Predictors of mortality among COVID-19 patients in Shebin El Kom Chest Hospital
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Sarah El-Sayed Zaki Zaki, Ahmed Abd El-Rahman Ali, Asmaa Metwally Abd El-Tawab

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

PS-18 in poster area
Session 08:00 - 09:30
Poster session: New approaches in rare interstitial lung diseases

Efficacy of Jak inhibitors in children with intra-alveolar haemorrhage not related to COPA gene mutations
Anaïs LE (Paris, France), Thomas Perrin, Philippe Drabent, David Drummond, Philippe Reix, Marie-Louise Fremond, Alice Hadchouel

Cyclic AMP-dependent up-regulation of surfactant protein B in differentiating alveolar basal cells
Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Monigk, Mark P. Kuehnel, Michael Tam, Katrin E. Hostettler

Myeloid-dependent immunosuppressive features drive IPF progression
Dmytro Sirokha (Munich, Germany), Theodoros Kapellos, Valeria Viteri, Flavia Greiffo, Altana Namsaraeva, Lukas Heumos, Daniela Dietel, Marion Frankenberger, Oliver Eickelberg, Nikolau Kneiding, Ali Oender Yildirim, Herbert Schiller, Jürgen Behr, Isis Enlil Fernandez

WT SP-A restores abnormal oligomerization and secretion of mutant SFTPA1 and SFTPA2
Tifenn Desroziers (Paris, France), Yohan Soreze, Camille Fletcher, Serge Amselem, Florence Dastot-Le Moal, Valérie Nau, Camille Louvrier, Marie Legendre, Sonia Karabina, Nadia Nathan

Altered regulation and pro-proliferative role of RNA binding proteins in idiopathic pulmonary fibrosis
Poornima Mahavadi (Gießen, Germany), Lisa Arnold, Martina Korfei, Andreas Guenther

Hypermorphic mutation in SFTPBP leads to adult pulmonary fibrosis
Tifenn Desroziers (Paris, France), Grégoire Prévot, Aurore Coulomb, Valérie Nau, Florence Dastot-Le Moal, Aurélie Le Borgne, Serge Amselem, Marie Legendre, Nadia Nathan

Induced pluripotent stem cell derived type 2 alveolar epithelial cells: A novel platform for exploring telomere biology in pulmonary fibrosis
Mari Ozaki (Dublin 2, Ireland), Anj Schweikert, Fernanda Gutierrez-Rodrigues, Emma Groarke, Killian Hurley

Efficacy and safety of CFTR modulators in patients with interstitial lung disease caused by ABCA3 transporter deficiency
Mathilde Le Brun (Paris, France), Nadia Nathan, Marie Legendre, Justine Frija-Masson, Mwetty Onanga, Clairelyne Dupin, Lise Momer, Marie-Pierre Debray, Isabelle Fajac, Pierre-Régis Burgel, Bruno Crestani, Raphaël Borie
Necroptosis study in an epithelial in vitro model expressing surfactant protein A1
Ioannis Tomos (Athens (P. Faliro), Greece), Camille Fletcher, Tifenn Desroziers, Angela Arenas Garcia, Aphroditi Daskalopoulou, Camille Louvrier, Serge Ansemle, Sonia Karabina, Nadia Nathan

Correlation between Quantitative 3D HRCT analysis and Lung Function in Diffuse Cystic Lung Diseases
Yasuhito Sekimoto (Dublin, Ireland), Evelyn Lynn, Brian Gaffney, Joseph Morrow, Marissa O’Callaghan, Amina Jouida, Jonathan D. Dodd, David Murphy, Michael P. Keane, Cormac Mccarthy

Characterization of fibrodysplasia ossificans progressiva (FOP) by respiratory oscillometry (Ose)
Anastasiia Vasileva (Toronto, Canada), Joyce K. Y. Wu, Lianne Tlie, Irene Ho, Angela M. Cheung, Chung-Wai Chow

Flow cytometric evaluation of whole lung lavage (WLL) fluid from patients with pulmonary alveolar proteinosis (PAP): preliminary findings
Lutz-Bernhard Jehn (Essen, Germany), Victoria Berg, Artur Kibler, Eda Boerner, Julia Waelscher, Bettina Budeus, Marc Seifert, Christian Taube, Francesco Bonella

Correlation between childhood interstitial lung disease (chILD) phenotype and ABCA3 variants
Simona Taverna (Palermo, Italy), Giuseppe Cammarata, Nicola Ullmann, Annalisia Allegorico, Velia Malizia, Anna Masucci, Stefania La Grutta, Renato Cutrer

Machine learned decision tree for diagnosis of ASMD among patients with unexplained ILD
Imre Noth (Charlottesville, United States), Francesco Bonella, Wim A Wuys, Pauline Guilmin, Margaux Törnqvist, Stefaan Sansen, Alexandra Dumitriu, Neha Shah, Maja Gasparic, Martin Montmerle

Interleukin-6 and krebs von den lungen-6 in lymphangioleiomyomatosis patients
Beatrice Perea (SIENA, Italy), Miriana D’Alessandro, Laura Bergantini, Sara Gangi, Benedetta Zilio, Paolo Cameli, Elena Bargagli

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)
Amina JOUIDA (Dublin, Ireland), Patrick Mcfadden, Grace Buckley, Evelyn Lynn, Marissa O'Callaghan, Yasuhito Sekimoto, Aurelie Fabre, Michael P Keane, Cormac Mccarthy

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 Ceberio Hualde, Edurne Echevarria Guerrero, Laura Cortezon Garcés, Raquel Perez Garay

Cystatin C is associated with interstitial lung abnormalities features
Yuchen Zhang (Chengdu, China), Min Zhu, Huajing Wan, Fengming Luo

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

Determining the diagnostic yield of genomic testing in interstitial lung disease in Ireland
Jisha Jasmin (Dublin 2, Ireland), Wan Lin Ng, Anja Schweikert, Laura Durcan, Donough Howard, Gianpiero L. Cavalleri, Katherine A. Benson, Killian Hurley

PS-1 in poster area Session 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
Chairs : Natasha Smallwood (Melbourne (VIC), Australia)
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
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 Bhati, Ryan Lee, Siu Yan Yeung
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, Rebecia 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 Guimaraes De Almeida

Long term outcome of patients treated with home NIV according to pulmonary rehabilitation (PR) attendance
Lêa Razakamanantsioa (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, Gualtiero Ermando Romano, Maria Luiza De Candia, Simone Rizzelli, Pierluigi Intiglietta, Alessandro Palumbo, Luciana Labate, Nicola Valerio, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpegnano

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, Immunculada Ortiz Molina, Rosa Vazquez Sanchez, Lola Nuñez Ollero, 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, Jwan Abdulrazak Gorani, Zainab Ahmadi, Josefín Sundh, Jenny Thörell Haglöw, 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 Bertoz Hayashi, Vinicius Oliveira, Gerardo Ferrero, Debora Nunes Da Silva, Miguel Victor Degunutti Krause

Title: Effects of exercises on lung function of NCFB and healthy subjects evaluated by impulse oscillometry system
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Daniele Oliveira Dos Santos, Ana Lara De Castro Rodrigues, Larisse Souza Reis, Jéssica Perossi, Sulamita Pereira Rosa, Larissa Perossi, Hugo Celso Dutra De Souza, José Antônio Baddini-Martinez

Determination of parameters associated with physical activity levels in spinal cord injury
Kubra Kardes (BAÇILAR, Turkey), Yasemin Buran Cirak, Emine Atici, Burcu Isikci, Yunus Emre Tutuneken, Nurgül Durusthan Elbasi

Oropharyngeal dysphagia in COPD patients
Anne Sophie Malishchuk (Rouen, France), Armand Bonne, Rimah 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 (Pune, India), Swathi Sanapala, Channa Panagamuwa, Prasad Nagakumar, Isobel Brookes

Patients’ clinical and psychological status in different COVID-19 waves: a quanti-qualitative study
Marina Maffoni (Montescano, Italy), Martina Vigorè, Valeria Torlaschi, Alessandra Gorini, Maria Teresa La Rovere, Roberto Maestri, Maurizio Bussotti, Sergio Enea Masnaghiatti, 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 Alkhatlan (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 Athanassiadi (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 QoQ score
Dejan Radovanovic (Milano (MI), Italy), Marina Gatti, Debora Spitaleri, Stefano Pini, Marina Saad, Andrea Gramagia, Michele Mondoni, Stefano Aliberti, Fabiano Di Marco, Stefano Centanni, Francesco Blasi, Pierachille Santus

Evaluation of sleep disordered breathing (OSA/OHS) service during the covid-19 pandemic in a west of ireland tertiary hospital
Katherine Finan (Sligo (County Sligo), Ireland), Mary Doherty

Revolutionizing OSA management: a hybrid healthcare pathway powered by telemedicine improves patient outcomes and enhances healthcare sustainability
Ana Rita Peixoto Pedrosa (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
Chevanthy Gnanalingam (ROCHESTER, United Kingdom), Jo-Leng Lum, 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 (Caltavuturo (Palermo), Italy), Francesco Gambino, Massimiliano Desideri, Vanessa Lo Nano, Claudia Meschi, Alessandra Castrogiovanni, Chiara Cappiello, Marta Amata, Eva Palano, Laura Carrozzi, Maria Rosaria Bonsignore

Acceptance and cost-effectiveness of telemedicine in patients with obstructive sleep apnea: a single-center randomized controlled trial
Qiong Ou (Guangzhou, China), Guo Pei, Miaochan Lao, Longlong Wang, Yanxia Xu, Jiaoying Tan, Gaihong Zheng

EFFECT OF TELEREHABILITATION ON SLEEP DISORDERS IN OBSE CHILDREN AND ADOLESCENTS DURING THE COVID-19 PANDEMIC: A QUASI-EXPERIMENTAL STUDY WITH FOLLOW-UP
Evelim Gomes (São Paulo (SP), Brazil), Josiane Luiz, Manoella Andrade, Luciana Sampaio, Dirceu Costa

Model for the selection of candidate patients for respiratory polygraphy
In what body positions do people with OSA sleep?
Christiaan Yu (Clayton, Australia), Renel Cuesta, Eldho Paul, Teanau Roebuck, Belinda Miller

Night-to-night short-term variability in apnea-hypopnea index: analysis of the associated conditions
Renaud Tamisier (Grenoble, France), Jean-Benoit Martinot, Jean-Louis Pépin, Sébastien Bailly, Nhat-Nam Le-Dong

Drug induced sleep endoscopy in obstructive sleep apnea
IGNACIO JARA (Madrid, Spain), Sara González, Ana Victoria Castillo, Maria Ponte, Winnifer Briceño, Ana Retegui, Diego Durán, Camen Rodríguez, Alberto Carreño, Rafael Barberá, Antonio Pedrera, Lourdes Montes, Andrea Pérez, Aldara García, Irene Cano, Eva Mañas

Evaluation of anxiety and depression in patients with obstructive sleep apnoea syndrome
yosra braham (Monastir, Tunisia), Imen Touil, Elhem Chaouch, Soumaya Bouchareb, Soumaya Boujneh, Maha Ben Mechlia, Leila Boussoffara, Jalel Kneni, Nadia Boudawara

PSG differences in sleepy versus non-sleepy obstructive sleep apnea (OSA) patients
Izolde Bouloukaki (Heraklion (Crete), Greece), Theofilis Vousis, Antonios Velidakis, Violeta Moniaki, Eleni Mavroudi, Giorgos Statthakis, Michail Fanaridis, Sophia Schiza

Obstructive sleep apnoea during rapid-eye movement sleep is predictive for response to treatment in patients with parasomnia
Fatima Saqib, Saad Aleem, Bryn Morris, Andras Bikov

PS-10 in poster area
Poster session: Monitoring in chronic airway disease (1)
Disease(s) : Airway diseases
Method(s) : General respiratory patient care Public health Pulmonary function testing Epidemiology Imaging

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, Tomoyoshi Lee, Ryu Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Natsumi Watanabe, Takaya Kawamata, Julia Morimoto, Ryuichi Togawa, Yuki Sato, Hiroyuki Minemura, Takefumi Nikaido, Naoko Fukuhara, Kenya Kanazawa, Yoshinori Tanino, Yoko Shibata

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 Pavord, 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’Armiento (New York, United States), Alison Keaveny, Laura Fonseca, Charlie Strange, James Michael Wells, Nadine Nuchovitch, Randel Plant, Monica Goldklang

Recognizing asthma risk scenarios: individualized inhaler usage and inhalation parameter profiles from an electronic inhaler with integrated sensors
Mark L. Levy (London, United Kingdom), Flavia Hoyte, Giselle Mosnaim, Michael Wechsler, Guilherme Safioti, Nathalie Magnus, Katja Sagalovich, Sinthia Bosnic-Anticevich, Janwillem Kocks

Preventing hospital readmissions of COPD patients : alerting rules on vital signs for remote patient monitoring
Yann Le Guillou (Cesson-Sévigné, France), Florian Tilquin, Sylvain Le Liepvre, Grazziela Brinchault, Tiphaine Guy, Fanny Thépault

COPD Screening and Ventilatory Function Assessment based on smartwatch sensor signals
Yibing Chen (Beijing, China), Lu Cao, Dahui Zhao, Song Meng, Dan Li, Wenjuan Chen, Jing Li, Kaijun Xia, Lixin Xie

RS and PRISm: symmetric reductions in FEV1 and FVC?
Tobias Lorenz Mráz (Wien, Austria), Caspar Schiffers, Emiel Wouters, 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
Liz Cuperus (Rotterdam, Netherlands), Cathelijne Van Zelst, Huib Kerstjens, Rudi Hendriks, Maureen Rutten-Van Molken, Jacqueline Muilwijk-Kroes, Gert-Jan Braunstahl, Hans In ‘T Veen
Exploratory study of a risk prediction artificial intelligence model to diagnose asthma and COPD in Mexico
Ramses Hernandez (Mexico, Mexico), Roxana Rodriguez, Oscar Villalva, Joaquin Pimentel, Jose Luis Miguel, Miguel Angel Villasis

Utility of the Oscillometer in the detection of small airways dysfunction (SAD) in patients with respiratory symptoms and normal lung function
Raja Dhar (Kolkata (West Bengal), India), Sushmeeta Chhowala

Impulse oscillometry findings in subjects with preserved ratio impaired spirometry (PRISm)
Andrei Malinovschi (Uppsala, Sweden), Gunnar Engströmm, Suneela Zaigham, Johan Sundströmm, Christer Janson, Per Wollmer

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

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

The effect of mobile health application on symptom control, self-efficacy and chronic disease management in COPD
Bilun Gemicioglu (Istanbul, Turkey), Neşe Özdemir, Nuray Ercan

Comparing testing parameters for forced oscillation technique among healthy Indians with published reference norms
Madhuri Batyala (Tirupati, India), Shantanu Tilak, Lancelot Pinto

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, Waled Gamal

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

How up-to-date is the Electronic Health Record?
Maarit Albers (Enschede, Netherlands), C.C. Bucsán, J. Van Der Palen

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

Poster session: Novel research data on asthma management and clinical applications
Session 08:00 - 09:30
Day: TUESDAY 12 SEPTEMBER, 2023

Use of short synacthen testing to detect iatrogenic adrenal insufficiency among severe asthma patients
Fred Fyles (Liverpool, United Kingdom), Hannah Joplin, Amy Nuttall, Laura Watkins, Hassan Burhan

Severe asthma care trajectories in the French REMAS cohort.

Early effects of anti-IL4R on cognitive function in patients with severe asthma.
Charlotte Bernhoff (Copenhagen, Denmark), Andreas Elleby Jespersen, Nanna Dyhre-Petersen, Emilie Johanning Bari, Kamilla W Miskowiak, Celeste M Porsbjerg

Dupilumab is effective in real-life severe asthma patients with smoking history
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Ídzko, Robab Breyer-Kohansal, Wolfgang Pohl

Extent and impact of SABA inhaler overuse among asthma patients in India
Sundeep Santosh Salvi (Pune (Maharashtra), India), Raja Dhar, Viswesvaran Balasubramanian, Meena Lopez, Vaishali Naik, Jaideep Gogtay
Adherence to inhaled corticosteroid therapy and treatment escalation of the Swedish asthma population
Sylvia Packham (Sollentuna, Sweden), Caroline Stridsman

Bronchodilator effect of oral doxofylline and procaterol in asthma: a randomized crossover study
Natthapon Noomon (Bangkok, Thailand), Narongkorn Saiphoklang, Pimchanok Patanayindee, Pitchayapa Ruchiwit, Orapan Pochanuukon

Intramuscular triamcinolone for access to biologic therapy in asthma- a retrospective cohort analysis
Alexander Chadwick (Preston, United Kingdom), Kathryn Prior, Aashish Vyas

Asthma control in Greek patients receiving FDC of Budesonide/Formoterol as maintenance and/or as-needed treatment. The NOTOS study
Maria Bertoli (Pikerni, Greece), Nikoletta Rovina, Konstantinos Samitas, Georgios Krommidas, Dimitrios Latsios, Alexandros Ginis

Characteristics of patients with asthma using single inhaler triple therapy (SITT) in the USA
Stephen G Noorduyn (Mississauga, Canada), Kristin Kahle-Wrobleksi, Rosirene Paczkowski, Lydia Lee, Phani Veeranki, Afisi S Ismaila, Noelle N Gronroos

Quality of life in Greek asthmatic patients receiving FDC Budesonide/Formoterol as maintenance and/or as-needed treatment. The NOTOS study
Maria Bertoli (Pikerni, Greece), Konstantinos Kostikas, Paschalis Steiropoulos, Nikolaos Kareklas, Panagiotis Boglou, Polyantith Papanastastiou

Short-acting β2-agonists over-prescription in patients with asthma: An Indian subset analysis of international SABINA III study.
Latha Sarma (Hyderabad, India)

Effectiveness and cost of a comprehensive severe asthma management strategy guided by airway inflammometry
Owen Treleaven (Hamilton, Canada), Sylvia Lauks, Parameswaran Nair, Terence Ho, Melanie Kjarsgaard, Chyna Huang, Katherine Radford, Nicola Calma, Carmen Venegas, Sarah Svenningsen, Manali Mukherjee, Anurag Nath, Huifang Lim, Michael Surette, Susan Waseam, Gerard Cox

Biologic agents licensed for severe asthma: A systematic review and meta-analysis of randomised controlled trials
Chris Kyriakopoulos (Ioannina, Greece), Athena Gogali, Georgios Markoanzes, Dimitrios Potonos, Vanesa Bellou, Georgios Nritritos, Konstantinos Kostikas

Assessing ICS responsiveness in severe asthma using BDP/formoterol NEXThaler™ dose-counting
Hnin Wint Aung (Market Harborough, United Kingdom), Claire E Boddy, Eleanor Hampson, Mark Bell, Lauren Parnell, Jemma Metcalf, Kumaran Balasundaram, Anna Murphy, Shamsa Naveed, Peter Bradding

Real life biological therapy effectiveness in patients with severe eosinophilic asthma: a comparison with randomized trial
Olimpia Calò (Roma, Italy), Giulia Lo Muzio, Paola Scarlato, Cecilia Cisternino, Veronica Capuano, Alessia Steffanina, Francesca De Filippis, Arianna Sanna, Maria Teresa Leporini, Paolo Palange, Elda Graziani

Does bronchodilator responsiveness depend on age in asthma?
Rim Kammoun (Sfax, Tunisia), Asma Haddar, Molk Maalej, Fatma Zahra Medyedali, Hana Trabelsi, Hela Zouari, Kaouther Masmoudi

Late Breaking Abstract - Efficacy and safety of benralizumab in patients with severe uncontrolled asthma despite ICS-LABA: a randomised, double-blind, placebo-controlled phase 3 trial in Asia (MIRACLE)
Kefang Lai (Guangzhou, China), Dejun Sun, Ranran Dai, Ronnie Samoro, Hae-Sim Park, Annika Åstrand, David Cohen, Maria Jison, Vivian Shih, Viktoria Werkström, Yuhui Yao, Yajuan Zhang, Wenyeng Zheng, Nanshan Zhong

Late Breaking Abstract - Patients with severe eosinophilic asthma achieved remission over 2 years with benralizumab: Integrated analysis of the >1000-patient, multinational, real-world XALOC-1 study
Girolamo Pelaia (Tirioro (CZ), Italy), David J. Jackson, Parameswaran Nair, Benjamin Emmanuel, Trung N. Tran, Andrew Menzies-Gow, Michael Watt, Sheena Kayaniyil, Silvia Boarino, Javier Nuevo, Marisa Pardal, Anat Shavit, Vivian Shih, David Cohen, Claudia Loureiro, Alicia Padilla-Galo

Late Breaking Abstract - An innovative inhaled solution of budesonide-cyclodextrin complex is safe and prevents the methacholine-induced hyperreactivity in asthmatics better than a commercial budesonide suspension: a breezy story (BOREAS).
Didier Cataldo (Lieve, Belgium), Marie-Astrid Albert, Natacha Rocks, Najate Ait Mahmoud, Ludwine Petit, Paul Maes
Disease(s) : Pulmonary vascular diseases, Interstitial lung diseases

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

Chairs : Athénaïs Boucly (Le Kremlin Bicêtre, France), Vasile Foris (Graz, Austria)

Identification of novel biomarkers for use in clinical trials in BMPRII pulmonary hypertension
Rowena Jones (CB2 0BD, United Kingdom), Nina Deliu, Sofia Villar, Mark Toshner

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

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

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

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 Vachiery, Ana Roussoulières

Comparison between REVEAL Lite 2.0 and COMPERA 2.0 for risk stratification in Pulmonary Arterial Hypertension
Sandeep Sahay (Houston, United States), Nelson Villasmil-Hernandez, Frederick Wang, Matthew Wooten, Duc Nguyen, Raymond Benza, Edward Graviss

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

The MRC Dyspnoea scale may predict survival in pulmonary arterial hypertension.
Folawemimo Arogundade (Glasgow, United Kingdom), Melanie Brewis, Colin Church, Martin Johnson, Harrison Stubbs

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

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

A patient preference study in pulmonary arterial hypertension (PAH): what matters most?
Wenjing Li (Allschwil, Switzerland), Michael Preiss, Monika Brand, Rachael DiSantostefano, Amélie Beaudet, Holger Gunz, Andrew Sadler, Ellen Janssen, Axel Mühlbacher

Concordance between physician and patient reported presence of symptoms in patients with pulmonary arterial hypertension in the US, Europe and Japan
R James White (Rochester, United States), Rogier Klok, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch

Higher circulating prolactin associates with lower mortality in pulmonary arterial hypertension
Wen-Hui Wu (Shanghai, China), Hui Zhao

Lowering of Mean Pulmonary Arterial Pressure is a Prognostic Marker in Pulmonary Hypertension Patients treated with Subcutaneous Treprostinil
Roela Sadushi-Kolici (Wien, Austria), Inbal Shafran, Nika Skoro-Sajer, Christian Gerges, Irene Lang

Health related quality of life in pulmonary arterial hypertension in the US, Europe and Japan
Carmine Dario Vizza (Roma (RM), Italy), Rogier Klok, Julia Harley, Mark Small, R James White, Dominik Lautsch

Biomarkers for diagnosis and disease severity in precapillary pulmonary hypertension.
Katarzyna Rososinska (Kirkel, Germany), Philipp Markwirth, Ralf Kaiser, Franziska Trudzinski, Bettina Weingard, Robert Bals, Heinrike Wilkens

Prognostic impact of pulmonary diffusing capacity for carbon monoxide in pulmonary hypertension
Milan Mohammad (Østerbro, Denmark), Jacob Peter Hartmann, Jørn Carlsen, Jann Mortensen, Ronan Martin Griffin Berg
Residual risk identified in routine non-invasive follow-up assessments in pulmonary arterial hypertension
Jonna Ostermann (Hamburg, Germany), Julian Pott, Jan K Hennigs, Kevin Roedl, Christoph Sinning, Lars Harbaum, Hans Klose

Vasoreactivity in combined pre- and post-capillary pulmonary hypertension and survival
Eileen Harder (Boston, United States), Farbod Rahaghi, Miguel Divo, George Washko, Aaron Waxman

Role of 6-MWT and NT-proBNP in the evaluation of survival in Pulmonary Arterial Hypertension
Chiara Milano (Monza, Italy), Andrea Lombi, Lorenzo Volpiano, Giulia Pittalis, Marta Tundo, Riccardo Ripamonti, Paola Alfieri, Paola Faverio, Fabrizio Luppi, Giuseppe Paciocco

Coral 3 Session 08:30 - 10:00
Symposium: The organ-wide reach of exercise in chronic respiratory disease
A holistic approach

Aims: to explain the role of inter-organ crosstalk and cellular communication in relation to exercise; to describe the beneficial effects of exercise training on skeletal muscle; to explain how to identify persons with chronic respiratory disease (CRD) that need additional support during exercise training to have optimal organ-wide effects; to allow participants to engage in discussion on the controversial idea that exercise can regenerate the lung.

Disease(s): Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases
Method(s): Cell and molecular biology  Physiology  Pulmonary rehabilitation
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)
Chairs: Silke Ryan (Dublin, Ireland), Matteo Bradicich (Zollikerberg, Switzerland), Jana De Brandt (Umeå, Sweden)

08:30 Exercise: the role of inter-organ crosstalk and cellular communication
Speaker to be confirmed

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
Speaker to be confirmed

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

Coral 4+5 Session 08:30 - 10:00
Symposium: Pulmonary embolism and its implication with other clinical respiratory settings and specialties

Aims: to provide an update on the management of PE in pregnancy; to describe the distinctive features of patients with lung cancer-associated thrombosis (CAT); to highlight the relationship between PE and obstructive sleep apnoea (OSA); and to provide an update about the role of residual pulmonary vascular obstruction (RPVO) in the assessment of the risk of venous thromboembolism (VTE) recurrences, as for patients’ evolution with the newly suggested chronic thromboembolic pulmonary disease (CTEPD) syndrome; to provide an update about correct diagnosis and treatment in this population, which is crucial for all pulmonologists, who may be involved in many different steps (ruling out the diagnosis, managing some difficult cases, proposing secondary thromboprophylaxis, etc.), to provide an update about management, outcomes and phenotypes of patients with lung CAT; to present information about the relationship between OSA and PE that suggest a possible connection between OSA and abnormal haemostasias; to review current evidence about the association between OSA and PE, as well as PE prognosis in patients with OSA; to discuss the key role of respiratory physicians in the follow-up of patients with PE.

Disease(s): Pulmonary vascular diseases  Sleep and breathing disorders  Thoracic oncology
Method(s): General respiratory patient care  Imaging
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training
Chairs: Yochai Adir (Haifa, Israel), Pilar Escribano- Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)
08:30 Management of pulmonary embolism in pregnancy
Cécile Tromer (Brest, France)

08:45 Distinctive feature of lung cancer-associated thrombosis
Luis Jara-Palomares (Sevilla, Spain)

09:00 Obstructive sleep apnoea and pulmonary embolism: what do we know and what do we need to know?
Alberto García Ortega (Valencia, Spain)

09:15 Role of residual pulmonary vascular obstruction in VTE recurrences and CTEPH
Olivier Sanchez (Paris, France)

09:30 Discussion and Q&A

Symposium: Prevention of tuberculosis
Aims: to present the latest evidence on the use of immunodiagnostic methods (interferon-gamma release assays (IGRAs) and tuberculin skin test) and preventive therapies for best clinical practice to prevent tuberculosis in adults.

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

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

Tag(s): Clinical

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

Chairs: Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)

08:30 How we prevent transmission once the case has been identified
Cécile Magis-Ecserra (Nijmegen, Netherlands)

08:45 IGRAs or tuberculosis skin test? How do they compare for identification of individuals at risk of developing tuberculosis?
Francesca Saluzzo (Milano, Italy)

09:00 Effectiveness of tuberculosis preventive therapy by age and Mycobacterium tuberculosis infection status
Ibrahim Abubakar (London, United Kingdom)

09:15 The global roadmap for a new tuberculosis vaccine
Speaker to be confirmed

09:30 Discussion and Q&A

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 (Cape Town, South Africa)
09:00 Transgenerational epigenetic impacts of parental infection on offspring health and disease susceptibility
Speaker to be confirmed

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

Gold Session 08:30 - 10:00
Endoscopy session: Cutting-edge concepts for diagnosis of peripheral lesions: the future is here!
Aims: to present a practical demonstration of the novel and rapidly evolving techniques in the diagnosis of peripheral pulmonary opacities; to provide a step-by-step guide for performing the techniques and technologies demonstrated.
Disease(s): Airway diseases, Interstitial lung diseases, Thoracic oncology, Respiratory infections
Method(s): Endoscopy and interventional pulmonology
Tag(s): Clinical
Target audience: Adult pulmonologist/clinician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Radiologist
Chairs: Amanda Dandanell Juul (Odense S, Denmark), Mohammed Munavvar (Preston (Lancashire), United Kingdom)

08:30 Introduction

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

Silver Session 08:30 - 10:00
State of the art session: Paediatric
Aims: to discuss important topics in paediatric respiratory medicine such as: 1) treatment options for severe paediatric asthma, 2) an insight into neutrophilic inflammation following preterm birth and other relevant lung diseases, 3) management of persistent obstructive sleep apnoea (OSA) in children and 4) high-flow nasal cannula therapy in paediatric respiratory insufficiency;
Disease(s): Paediatric respiratory diseases, Respiratory infections, Sleep and breathing disorders
Method(s): General respiratory patient care, Pulmonary function testing, Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/clinician, Medical student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Respiratory therapist
Chairs: Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

08:30 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
### Mini symposium: Complex pleural disease: management in the critically ill patient

**Aims:** to present most common problems that surgeons, chest physicians, intensivists and even radiologists can face for diagnosis and treatment in the critically ill patients; to emphasize the need of multidisciplinary approach to these patients; to clarify diagnosis and treatment of patients with pneumothorax and patients on mechanical ventilation, patients with pulmonary disease listed for lung transplantation and pneumothorax after a bronchoscopic procedure, surgical procedure or tale pleurodesis (to distinguish “true” pneumothorax from the residual air space); to distinguish free empyema and complex empyema and try to create a protocol for critically ill patients (intrapleural fibrinolytic therapy, dornase alfa, additional drainage tubes, medical thoracoscopy and surgical procedures); to discuss chylothorax after surgical procedures, spontaneous chylothorax, conservative treatments, surgical options and bronchopleural fistulas (fistulas after lung transplantation, fistulas after cancer surgery, conservative treatments, bronchoscopic treatments and surgical options).

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs:** Katerina Antoniou (Heraklion, Greece), Federica Meloni (Pavia (PV), Italy)

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<td>08:30</td>
<td>Pneumothorax in critically ill patients</td>
<td>Marco Nardini (Leeds, United Kingdom)</td>
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<td>08:45</td>
<td>Complex empyema in critically ill patients</td>
<td>David Sanchez (Barcelona, Spain)</td>
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<td>09:00</td>
<td>Chylothorax and bronchopleural fistulas</td>
<td>Mario Nosotti (Milano (MI), Italy)</td>
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<td>09:15</td>
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### Studio (White) Session 08:30 - 08:45

**News from the studio: News from the studio**

**Chairs:** Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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### Studio (White) Session 09:10 - 10:00

**Experts interview: Making sense of chronic cough/an update on environmental and occupational exposure in interstitial lung diseases**

**Chairs:** Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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<td>09:10</td>
<td>Making sense of chronic cough: hypersensitivity, hyper-reactivity or idiopathic patient phenotypes?</td>
<td>Lorcan McGarvey (Belfast, United Kingdom)</td>
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<td>09:25</td>
<td>Discussion and Q&amp;A</td>
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<td>09:35</td>
<td>Environmental and occupational exposure in interstitial lung diseases: an update</td>
<td>Francois Huaux (Bruxelles, Belgium)</td>
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<td>09:50</td>
<td>Discussion and Q&amp;A</td>
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### Brown 3 Session 09:30 - 10:45

**Oral presentation: Interactions at the host-environment interface governing the scale and phenotype of airway inflammation**

**Disease(s):** Airway diseases

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

**Chairs:** Robert Snelgrove (London, United Kingdom), Chair to be confirmed

**Late Breaking Abstract - Carnitine palmitoyltransferase 1A and its fatty acid oxidation as a protector of airway epithelial barrier**

Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li
Single-cell RNA Sequencing Of Pulmonary Neuroendocrine Cells Reveals Genetic Heterogeneity And Epithelial Adoption In Chronic Airway Inflammation
Masahiro Nemoto (Chiba, Japan), Masahiro Kiuchi, Kaori Tsuji, Ami Aoki, Toshinori Nakayama, Kiyoshi Hirahara

Airway inflammation and hyperresponsiveness in asthma is regulated by the circadian clock through REV-ERBα
Amlan Chakraborty (Manchester, United Kingdom), Jafar Cain, Robert Maidstone, Karolina Krakowiak, Vishvangi Deugi, Nicola Begley, Julie Gibbs, Hannah Durrington

Epithelial alarmins enhance mast cell-dependent contractions of isolated human small bronchi
Maria Belikova (Stockholm, Sweden), Jesper Såfholm, Mandoh Al-Ameri, Ann-Charlotte Orre, Sven-Erik Dahlén, Mikael Adner

Epithelium-derived cystatin SN inhibits HDM protease activity in allergic asthma
Xin Yao (Nanjing (Jiangsu), China), Lei Yao, Ian Adcock

Neutrophilic responses in a subacute and chronic mouse model of pollutant-aggravated allergic asthma
Tania Maes (Ghent, Belgium), Joyceline De Volder, Annelies Bontinck, Katrien De Grove, Guy Joos, Guy Brusselle

Respiratory effects of cold air and diesel exposure in exercise-induced bronchoconstriction in mice
Nora Marain (Leuven, Belgium), Marieke Colemont, Dominique Bullens, Lieven Dupont, Jeroen Vanoirbeek

LSC - 2023 - Inflammatory type 2 cDCs acquire features of cDC1s and macrophages to orchestrate immunity to respiratory virus infection
Cedric Bosteels (Zwijnaarde, Belgium), Katrijn Neyt, Hamida Hammad, Bart Lambrecht

LSC - 2023 - Resolution of inflammation in long COVID
Sean Knight (Manchester, United Kingdom), Madhvi Menon, Bethany Pott, Tracy Russell, Nawar Bakerly, Thomas Williams, John Grainger, Joanne Konkel, Elizabeth Mann, Angela Simpson, Laurence Pearmain, Alexander Mathioudakis, Geoffroy Lowman, Shruti Sarda, 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

Brown 1+2 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
Chairs : Ana Oliveira (Aveiro, Portugal), Chair to be confirmed

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 (Schöna am Königssee, Germany), Inga Jarosch, Daniela Leitl, 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

Feasibility of personalised health behaviour coaching to support symptoms and activities of daily living in those with Long COVID-19.
Matthew Armstrong (Bournemouth, United Kingdom), Rebecca Owen, Ioannis Vogiazitis
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), Lais Bacchin De Oliveira, Ana Lúcia Cavallaro Baraúna Lima, Luciana Castilho De Figueirêdo, Marângela Ribeiro Resende, Paulo Mendes, Hugo Dugolin Cecatto, Julian Furtado Silva, Luciene De Oliveira Conterno, Pedro Maximink Esteves Villar, Lígia Dos Santos Roceto Ratti, Mônica Corso Pereira

Discussion and Q&A

Blue 1+2 Session
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

Chairs: Elif Dagli (Istanbul, Turkey), Stamatoula Tsikrika (Athens, Greece)

Late Breaking Abstract - Alpha-1 Antitrypsin deficiency and risk of cancer: A Nationwide cohort study
Nanna Korsbæk (Køge, Denmark), Eskild Landt, Sarah Marott, Børge Nordestgaard, Morten Dahl

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

The causal relationship between smoking conditions and telomere length: a mendelian randomization study in UK biobank
Siyu Dai (Hangzhou, China), Feng Chen

E-cigarette use and quality of life in young adults: a Canadian health measure survey study
Teresa To (Toronto (ON), Canada), Cornelia M. Borkhoff, Chung-Wai Chow, Theo J. Moraes, Robert Schwartz, Nicholas T. Vozoris, Christopher Langlois, Kimball Zhang, Emilie Terebessy, Jingqin Zhu

Tobacco control or tobacco investment?: Incentives given to tobacco industry
Elif Dagli (Istanbul, Turkey), Tanzer Gezer, Osman Elbek, Banu Salepci, Pinar Bostan, Pinar Ay, Murat Ceyhan, Fusun Yıldız, Murat Guner

Perceptions of general practitioners in Istanbul on e-cigarettes as smoking cessation aids
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Ayşe Emel Önal, Selma Karabey, Meryem Merve Ören, Mahmut Talha Ucar, Chris Barton

Smoking status in women with normal and complicated pregnancy.
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Kravchenko, Tetiana Kirieieva, Tetiana Pertseva

Acute vascular effects following e-cigarette inhalation
Amelie Brynedal (Umeå, Sweden), Mikael Kabèle, Jenny Bosson, Lukasz Antoniewicz, Magnus Lundbäck, Anders Blomberg

Oscillometry in the assessment of early smoking-induced airway changes
Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Dellaca, Owat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffer, Charles G. Irvin, Robab Breyer-Kohansal
Vaping-derived Δ8-THC quinones form cysteine adducts and alter the respiratory epithelium transcriptome
Charlotte Love (Chapel Hill, United States), Hye-Young Kim, Keri Tallman, Ned Porter, Phillip Clapp, Ilona Jaspers

Discussion and Q&A

Red 1+2

Oral presentation: Unravelling pulmonary fibrosis mechanisms

Disease(s): Interstitial lung diseases
Method(s): Cell and molecular biology, General respiratory patient care
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
Phil Molyneaux (London, United Kingdom), Zhe Wu, Lisa G Spencer, Winston Banya, Nazia Chaudhuri, Pilar Rivera-Ortega, Ira Jakupovic, Brijesh Patel, Munuhanth Thillai, Alex West, John Westoby, Marlies Wijsenbeek, Toby M Maher, Jaclynn A Smith

LSC - 2023 - Two lung immuno-endotypes in IPF associated with different pathological features
Tamara Cruz Santa Cruz (Barcelona, Spain), Nuria Mendoza, Sandra Casas, Guillaume Noel, Fernanda Hernandez, Maria Molina, Mauricio Rojas, Alvar Agusti, Jacob Sellares, Rosa Faner

LSC - 2023 - Defining and modelling the fibrotic niche in lung fibrosis
Joseph Bell (Southampton, United Kingdom), Michael Eyres, Elizabeth Davies, Zijian Xu, Yihua Wang, Gayle Marshall, Donna Davies, Emily Offer, Mark Jones

Spatial transcriptomic analysis reveals similar gene expression patterns in the Long COVID and IPF lungs.
Aurélien Justet (Caen, France), Claudia Ravaglia, Amy Zhao, Nibal Al Hussein, Taylor Adams, Agshin Balayev, Joe Deluliois, Naftali Kaminski, Sara Tomassetti, Venerino Poletti

Targeting pro-inflammatory and pro-fibrotic monocyte phenotype using novel mitochondria-targeted hydrogen sulfide delivery
Elena Leonova (Exeter, United Kingdom), S.L. Barratt, M.A. Lindsay, M.A. Gibbons, M. Whiteman, C.J. Scotton

Hyaluronic acid decorated-liposome loaded with Imatinib: an in vitro study as targeted drug delivery system for lung fibrosis
eleonora bozza (pavia, Italy), Sara Bozzini, Cecilia Bagnera, Valeria Bincoletto, Ilaria Andreana, Barbara Stella, Laura Pandolfi, Elisa Cacciatori, Sara Lettieri, Silvia Arpico, Federica Meloni

Therapeutic effects of ALK5i on pulmonary function and fibrosis in a high-fat diet + bleomycin-induced and spirometry-confirmed mouse model of IPF
Asbjørn Graver Petersen (Hørsholm, Denmark), Jamil Bousamaki, Laura Jul Andreasen, Denise Oró, Jonas Damgård Schmidt, Yaohui Nie, Jordan Butts, Manuel Roqueta-Rivera, Henrik Björk Hansen, Michael Feigh

SMAC Mimetic as potential anti-fibrotic therapy in an in vivo model of Bleomycin-induced Pulmonary Fibrosis
Natalia Vanegas (Columbus, United States), Lorena Rosas, Paula Agudelo Garcia, Stephanie Scott, Madeline Riley, Erica L Dale, Victor Peters, Sean D Stacey, Marc Kaestle, Peter Seither, Ana L Mora, Mauricio Rojas

A 3D organoid model mimicking honeycomb cysts in idiopathic pulmonary fibrosis
Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler

Discussion and Q&A

Yellow 1+2+3

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
Chairs: Audrey Joannes (RENNES, France), Olivier Burgy (Dijon, France)

Late Breaking Abstract - Factor inhibiting HIF (FIH) as a metabolic switch in lung fibroblasts
Siyuan Wang (southampton, United Kingdom), Liudi Yao, Yilu Zhou, Franco Conforti, Nullin Divecha, Jonathan Swann, Charlie Birts, Donna Davis, Mark Jones, Yihua Wang
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>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 Melén</td>
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<td>Fucoxytransferase-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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<td>Mettl3-mediated m6A modification of FSP1 mRNA induces ferroptosis by diminishing the FSP1 level in COPD</td>
<td>Yan Wu (Wuxi, China), Yue Yang, Weiyu Shen, Tao Bian</td>
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<td>Blocking CXCR4 improves pulmonary and cardiac outcomes in a mouse model of early COPD</td>
<td>Isabelle Dupin (Bordeaux, France), Pauline Henrot, Elise Maurat, Reshed Abohalaka, Sébastien Chaigne, Dounia El Hamrani, Edmée Eyraud, Renaud Prevel, Pauline Estèves, Marilyne Campagnac, Marielle Dubreuil, Guillaume Cardouat, Clément Bouchet, Olga Ousova, Jean-William Dupuy, Thomas Trian, Matthieu Thumerel, Hugues Bègueret, Pierre-Olivier Girodet, Roger Marthan, Maëva Zysman, Véronique Freund-Michel, Patrick Berger</td>
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<td>Airway dysbiosis disturbs lung clock gene expression in a chronic smoke-exposed murine model</td>
<td>Wei Xiao (China), Juan-Juan Fu, Ti-Wei Miao, Bing Mao</td>
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<td>“Super Survivor” after Lung Transplantation – Protective Role of Macrophages?</td>
<td>Edith Katharina Plucinski (Hannover, Germany), Jan-Christopher Kamp, Jens Gottlieb, Tobias Welte, Marius Hoeper, Hans-Heinrich Kreipe, Danny David Jonigk, Lavinia Neubert, Mark Philipp Kühnel</td>
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<td>Tissue-specific gene expression of immune-related genes in different COVID-19 severities</td>
<td>Alberto Gómez Carballa (Santiago de Compostela, Spain), Irene Rivero-Calle, Jacobo Pardo-Seco, Jose Gómez-Rial, Ana Dacosta-Urbietta, Xabier Bello, Sara Pischedda, María José Currás-Tuala, Sandra Viz-Lasheras, Federico Martinón-Torres, Antonio Salas</td>
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<td>Identification of the mesenchymal subpopulation responsible for lung tumorigenesis by using single-cell RNA-seq</td>
<td>Shigehisa Yanagi (Miyazaki, Japan), Hironobu Tsubouchi, Taiga Miyazaki</td>
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<tr>
<td>A primary ciliary dyskinesia model of static cilia for research application</td>
<td>Claire L Jackson (Southampton (Hampshire), United Kingdom), Janice Coles, Katie Horton, Regan Doherty, Gemma Fryatt, Jane S Lucas</td>
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**Session 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)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>10:15</td>
<td>Patient's perspective</td>
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<td>10:20</td>
<td>New developments in tuberculosis diagnosis</td>
<td>Daniela Maria Cirillo (Milano (MI), Italy)</td>
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<td>10:35</td>
<td>Tuberculosis treatment monitoring and outcome measures</td>
<td>Derek Sloan (ST ANDREWS, United Kingdom)</td>
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<td>10:50</td>
<td>New drugs, new regimens and new ways to design clinical trials</td>
<td>Christoph Lange (Borstel, Germany)</td>
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<td>11:05</td>
<td>Interventions to enhance treatment adherence</td>
<td>Raquel Duarte (Porto, Portugal)</td>
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<td>11:20</td>
<td>Discussion and Q&amp;A</td>
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Coral 2  
Session 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

Coral 3  
Session 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  
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

Gold  
Session 10:15 - 11:45  
Endoscopy session: Innovative interventions in pulmonology: freeze, fry or fume?  
Aims: to demonstrate the performance of a variety of interventional procedures, including tips and tricks from experts; to explain the details of the new techniques and technologies demonstrated.
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>10:15</td>
<td>Introduction</td>
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<td>10:20</td>
<td>Rheoplasty and cryo spray</td>
<td>Konstantina Kontogianni (Heidelberg, Germany)</td>
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<td>10:35</td>
<td>Endoscopic lung volume reduction</td>
<td>Michela Bezzi (Brescia, Italy)</td>
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<td>10:50</td>
<td>Indwelling pleural catheter placement and troubleshooting</td>
<td>Mª Rosa Cordovilla Perez (Salamanca, Spain)</td>
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<td>11:05</td>
<td>Cryobiopsy</td>
<td>Sara Tomassetti (Florence, Italy)</td>
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<td>Discussion and Q&amp;A</td>
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**Coral 4+5 Session** 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 HfPpEF-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)

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<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>10:15</td>
<td>The spectrum of PH in lung diseases</td>
<td>Isabel Blanco Vich (Barcelona, Spain)</td>
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<td>10:30</td>
<td>Genetic pulmonary vascular disorders as a cause of pulmonary hypertension in adults</td>
<td>David Montani (Le Kremlin-Bicêtre, France)</td>
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<td>10:45</td>
<td>Right ventricle adaptation in different types of PH</td>
<td>Frances S. de Man (Amsterdam, Netherlands)</td>
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<td>11:00</td>
<td>Any progress in the management of PH in heart failure?</td>
<td>Jean-Luc Vachiery (Bruxelles, Belgium)</td>
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<td>11:15</td>
<td>Discussion and Q&amp;A</td>
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**Silver Session** 10:15 - 11:45  
Clinical cases: Lungs on fire: paediatric respiratory diseases

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

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

**Tag(s):** Clinical

**Chairs:** Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

**Discussants:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), David Drummond (Paris, France)
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<th>Time</th>
<th>Session</th>
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<tr>
<td>10:15</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: J. N. Eze (Nigeria)</td>
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<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands)</td>
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<td>10:37</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: M. Cameron (Australia)</td>
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<td>David Drummond (Paris, France)</td>
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<td>10:59</td>
<td>Case 3 incl. panel discussion and Q&amp;A - Author: N. Kula (Turkey)</td>
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<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands)</td>
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<td>11:21</td>
<td>Case 4 incl. panel discussion and Q&amp;A - Author: S. Hartfiel (Germany)</td>
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<td>David Drummond (Paris, France)</td>
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### 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)

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:15</td>
<td>Management of dyspnea in ILD</td>
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<td>Yet Hong Khor (Melbourne (VIC), Australia)</td>
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<tr>
<td>10:30</td>
<td>Pathophysiology and treatment of cough in ILD</td>
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<td>Zhe Wu (London, United Kingdom)</td>
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<td>10:45</td>
<td>Fatigue in ILD: a major problem for patients and physicians</td>
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<td>Karen Moor (Rotterdam, Netherlands)</td>
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<td>11:00</td>
<td>Discussion and Q&amp;A</td>
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### INDUSTRY SKILLS LAB WORKSHOP

**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>10:45</td>
<td>Pro: Are β-blockers beneficial in COPD?</td>
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<td>Alan Kaplan (Stouffville (ON), Canada)</td>
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<td>10:30</td>
<td>Con: Are β-blockers beneficial in COPD?</td>
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<td>Daiana Stolz (Freiburg, Germany)</td>
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<td>11:00</td>
<td>Discussion and Q&amp;A</td>
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Amber 1+2  
**Session**  10:40 - 13:00

**Skills workshop: SW11 Clinical-radiological-pathological correlation in pulmonary hypertension**

**Aims:** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.

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

**Method(s):** Imaging

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/ Clinician, Pathologist, Physician in Pulmonary Training, Radiologist

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands)

**10:40 Introduction**

**10:40 Radiological assessment of pulmonary hypertension**
Deepa Gopalan (London, United Kingdom)

**10:40 Pathological assessment of pulmonary hypertension**
Teodora Radonic (Amsterdam, Netherlands)

**10:40 Echocardiography in pulmonary hypertension**
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)

**10:40 Clinical assessment of pulmonary hypertension**
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

Blue 1+2  
**Session**  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

**Chairs:** Niki Ubags (Epalinges, Switzerland)

**Late Breaking Abstract - Perinatal obesity induces premature alveolar aging by AT2 cell depletion via IL-6-driven transcriptional and genome instability**
Jaco Selle (Köln, Germany), Oleksiy Klymenko, Bastian Abend, Tobias Trojan, Chrysa Nikopoulou, Stephanie Stephan, David Meyer, Gabriela Riederer, Christina Vohlen, Rebecca Wilke, Ana-Ivonne Vazquez-Armendariz, Baktybek Kojonazarov, Peter Tessarz, Susanne Herold, Norbert Weißmann, Werner Seeger, Jörg Dötsch, Leo Kurian, Björn Schumacher, Miguel A. Alejandro Alcazar

**Western dietary pattern during pregnancy increases risk of childhood asthma dependent on social circumstances**
Mina Ali (Copenhagen, Denmark), David Horner, Min Kim, Nicklas Brustad, Tingting Wang, Liang Chen, Casper-Emil T. Pedersen, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bonnelykke, Morten A. Rasmussen, Bo Chawes

**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

**Fully automated CT-based body composition analysis shows altered adipose tissue ratios in people with CF receiving CFTR modulator therapy**
Dirk Westhölter (Essen, Germany), Johannes Haubold, Johannes Wienker, Matthias Welsdon, Sivagurunathan Sutharsan, Christian Taube, Michael Forsting, Felix Nensa, Rene Hosch, Marcel Opitz

**Specific association of extracellular vesicles-derived miRNA-17 and -106a clusters with pathomechanisms of obesity-associated low type-2 asthma**
Holger Garn (Marburg, Germany), Fahd Alhamdan, Timm Greulich, Christian Daviaud, Leigh M. Marsh, Frauke Pedersen, Clemens Thölken, Petra I. Pfefferle, Thomas Bahmer, Daniel P. Potaczek, Jörg Tost

**Allergic inflammation modulates the adiponectin/adiponectin receptor 1 axis in lung regulatory T cells in vivo**
Patricia Ramos-Ramírez (Glassboro, United States), Carina Malmhäll, Apostolos Bossios

**Risk factors for asthma related hospital admissions in adults: Analysis of 1.2 million patients in England**
Nicola Adderley (Birmingham, United Kingdom), Nikita Williams-Simms, Raisah Thayakaran, Krishnarajah Nirantarakumar, Shamil Haroon, Prasad Nagakumar, Adel Mansur
Adipocyte-fibroblast bidirectional crosstalk promotes features of fibrosis
Nour Jalaleddine (Beirut, Lebanon), Mellissa Gaudet, Qutayba Hamid, Saba Al Heialy

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

Adipokines in cachexia of patients with lung cancer
Lukas Hofmann (Leipzig, Germany), Charlotte Frommelt, Malte Ossenberg, Jonas Oberhuber-Kurth, Johanna Pappisch, Teresa Kerkhoff, Nicolas Linder, Harald Busse, Thomas Ebert, Anke Tönnjes, Sebastian Krämer, Hartmut Kuhn, Hubert Wirtz, Armin Frille

Discussion and Q&A

Brown 1+2 Session 11:00 - 12:15

Oral presentation: Best abstracts in clinical problems

Disease(s): Pulmonary vascular diseases, Airway diseases, Respiratory critical care, Sleep and breathing disorders

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

Chairs: Georgios Kazantsakis (Athens, Greece), Anne Orholm Nielsen (Gentofte, Denmark)

Late Breaking Abstract - Obstructive sleep apnoea and chronic cough: is there really a link?
Laurent Guilleminault (Toulouse Cedex, France), Jérémie Riou, Sandrine Pontier, Kamila Sedkaoui, Frédéric Gagnadoux, Trzepizur Wojciech

Prevalence of abnormal oscillometry among ambulatory Long COVID patients
Anthony Byrne (Allambie Heights, Australia), Nick Lees, Ellen Asgary, Emma Stumbles

Effect of treatment with tobramycin on the airway microbiota and resistome in bronchiectasis patients chronically colonised with Pseudomonas aeruginosa: iBEST study
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisi G Einarsson, Andrew J Lee, Aya Alkhathib, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malaterre, James D Chalmers, Michael R Loebinger, Francesco Blasi, Charles S Haworth, J Stuart Elborn

Effects of saline nebulisation on SARS-CoV2 spreading and exhaled bio-aerosol particles in COVID-19 patients
Francesca BUTTINI (Parma, Italy), Leonardo Gori, Fabio Morecchiato, Andrea Bartolini, Gian Maria Rossolini, Alessandro Bartoloni, Jessica Mencarini, Ruggero Bettini, Federico Lavorini

Two-year cohort study after GM-CSF inhalation therapy for autoimmune pulmonary alveolar proteinosis
Koh Nakata (Niigata, Japan), Ryuishi 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)
yosa braham (Monastir, Tunisia), Imen Touil, Ibn Haj Amor Hassen, Charfeddine Salma, Kraiem Salma, Hammami Rania, Mahmoud Anis, Torjmen Slim, Abdesslem Salem, Abid Leila, Braham Yosra, Knani Jalel

Prevalence and associated factors to post-COVID-19 functional respiratory complaints (FRCs) identified by the Nijmegen questionnaire (NQ)
Thomas Gille (Bobigny, France), Lucile Sesé, Simon Chauveau, Bénédicte Giroux-Leprieu, Aurélie Hervé-Carrega, Morgane Didier, Gary Silvera, Mannelle Mokrani, Yousra Coulibaly, Marcilía Da Silva, Anabel Moreno, Stéphanie Grouetteau, Emeline Saïndoy, Hilario Nunes, Yurdagül Uzunhan, Carole Planès

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

Hyperventilation syndrome (HVS) after COVID 19 pneumonia : what are the predisposing factors?
Hela Cherif (Tunis, Tunisia), Mariem Friha, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaus Yuangui, Mohamed Ridha Charfi

How is lung function affected in children with long-COVID?
Zeynep Reyhan Onay (Istanbul, Turkey), Sinem Can Oksay, Deniz Mavi, Gulay Bilgin, Yetkin Ayhan, Ferit Durankus, Saniye Girit

Discussion and Q&A
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

**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

**High-throughput spectral flow cytometry of BAL identifies profound changes in immune cell subsets in CLAD**
Saskia Bos (Newcastle upon Tyne, United Kingdom), Darius Armstrong, Vicky Gerovasili, Kavita Dave, Martin Carby, John Dunning, Binu Raj, Krishika Rangmang, Haleema Khanum, Gabija Drazdauskaite, Kasini Jiwa, Steve Bolton, Muteb Alatawi, Eduardo De Paiva, Jennie Yang, Jeremy Mason, Adrian Hayday, Andrew J Fisher, Thomas Hayday, Adam Laing, Anna Reed

**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

**Mesenchimal stromal cells as rescue therapy for refractory Chronic Lung Allograft Dysfunction: preliminary data of an Italian monocentric cohort**
Sara Lettieri (Pavia, Italy), Eleonora Bozza, Cecilia Bagnera, Sara Bozzini, Valentina Vertui, Stefania Croce, Chiara Valsecchi, Elisa Lenta, Antonia Avanzini, Federica Meloni, Patrizia Comoli

**Donor-derived cell-free DNA in chronic lung allograft dysfunction phenotypes**
Hanne Beeckmans (Leuven, Belgium), Janne Kaes, Vincent Geudens, Emanuela Cortesi, Celine Aelbrecht, Astrid Vermaut, Lynn Willems, Marie Vermant, Tinne Goos, Gitte Aerts, Charlotte Hooft, Youssef Mohamady, Xin Jin, Jan Van Slambrouck, Laurens Ceulemans, Laurent Godinas, Maarten Naesens, Bart Vanaudenaerde, Robin Vos

**Prediction of Chronic Lung Allograft Dysfunction by Serum KL-6 Levels**
Victoria Ruiz (Barcelona, Spain), Marta Arjona Peris, Alberto Mendizo-Valderrey, Berta Saez-Gimenez, Marta Zapata-Ortega, Manuel Lopez-Meseguer, Maria Deu, Susana Gomez-Olles, Carlos Bravo, Cristina Berastegui

**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

**The local immune response after murine lung transplantation**
Pieterjan Kerckhof (Leuven, Belgium), Janne Kaes, Jin Xin, Celine Aelbrecht, Vincent Geudens, Arno Vanstapel, Charlotte Hooft, Lynn Willems, Jan Van Slambrouck, Lucia Aversa, Hanne Beeckmans, Gitte Aerts, Astrid Vermaut, Marta Zapata, Dirk Van Raemdonck, Youssef Mohamady, Laurent Godinas, Laurens Ceulemans, Robin Vos, Bart Vanaudenaerde, Yildrim Onder, Francesca Polverino, Joselyn Rojas Quintero, Juan Cala Garcia

**Flow-cytometric assessment of T cell response to monitor immunosuppression**
Torstein Watne (OSLO, Norway), Inga Leuckfeld, Arnt E. Fiane, Are M. Holm

**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

**Discussion and Q&A**
Autologous transplantation of P63+ lung progenitor cells for chronic obstructive pulmonary disease therapy
Wei Zuo (Shanghai, China), Yujia Wang, Zili Meng, Ming Liu, Yueqing Zhou, Difei Chen, Yu Zhao, Ting Zhang, Nanshan Zhong, Xiaotian Dai, Shiyue Li

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, Siburo Ito, Jun Araya, Yuta Hirano, Shota Fujimoto, Hironori Kawamoto, Naoki Watanabe, Tsukasa Kadota, Yu Fujita, Daisuke Takekoshi, Shunsuke Minagawa, Takanori Numata, Hiromichi Haru, Kazuyoshi Kuwano

SIL-6Rα 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 Khaletskov, Andy Lan, Maarten Van Den Berge, Djoke Van Gosliga, Martijn Nawijn, Judith Vonk, Gerard Koppelman

Mepolizumab alters the phenotype and activation status of peripheral blood eosinophils in patients with severe eosinophilic asthma
Pablo Miguéns-Suárez (Santiago de Compostela, Spain), Sara Vázquez-Mera, Laura Martelo-Vidal, Uxio Calvo-Álvarez, Raquel Ruiz-Ferreras, Marina Blanco-Aparicio, Coral González-Fernández, Mar Mosteiro-Añón, Maria Dolores Corbacho-Abelaira, Paula Méndez-Brea, Juan José Nieto-Fontarrio, Francisco Javier Salgado, Francisco Javier González-Barcala

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Effect of add-on therapies (mepolizumab, omalizumab or azithromycin) on asthma remission in severe asthma
Dennis Thomas (New Lambton Heights, Australia), Vanessa Mcdonald, Sean Stevens, Erin Harvey, Melissa Baraket, Philip Bardin, Jeff Bowden, Simon Bowler, Jimmy Chien, Li Ping Chung, Andrew Gillman, Mark Hew, Sandra Hodge, Alan James, Christine Jenkins, Constance Katelaris, Gregory Katsoulotos, David Langton, Joy Lee, Guy Marks, Matthew Peters, Naghmeh Radhakrishna, Paul Reynolds, Janet Rimmer, Pathmanathan Sivakumaran, 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
Muzhida Ghanizada (Copenhagen, Denmark), Sofia Malm Tillgren, Nihaya Mahmoud Said, Helle Frost Andreassen, Louise Munkholm Andreassen, Lise Lotte Eriksen, Nanna Dyhre-Petersen, Mandy Menzel, Samuel Cerps, Asger Sverrild, Lena Uller, Celeste Porsbjerg, Therese Lapperre

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 Pappani, Davide De Angelis, Maurizio Civelli, Gino Villetti, Daniela Miglietta

Discussion and Q&A

Brown 3 Session 11:00 - 12:15
Oral presentation: Physical activity, exercise, and rehabilitation in lung disease

Disease(s) : Airway diseases
Method(s) : Pulmonary rehabilitation  Transplantation  General respiratory patient care
Chairs : Deniz Inal-Ince (Ankara, Turkey), Daniel Langer (Leuven, Belgium)

Late Breaking Abstract - Group-based Tele-Yoga improves exercise capacity, respiratory and cognitive function and quality of life in obstructive sleep apnea syndrome
Deniz Inal-Ince (Ankara, Turkey), Filiz Eyuboglu, Berna Karamancioglu, Naciye Vardar-Yagli, Defne Kaya-Utlu, Orhan Dalkilic, Goksel Somay

A randomized trial of three months physical activity telecoaching in patients post lung transplantation
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Wim Janssens, Robin Vos, Thierry Troosters, Heleen Demeyer

Physical activity tele coaching in COPD: intermediate effects
Astrid Blondeel (Leuven, Belgium), Fien Hermans, Sofie Breuls, Marieke Wuyts, Eric Derom, Wim Janssens, Heleen Demeyer, Thierry Troosters
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 Pedroso, Natiele Soares Correia, Denner Ildemar Feitosa Melo, Caroline Sydledski Bidoia, Fabio Pitta, Manuela Karlooh, 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)
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?
Joana Antão (Aveiro, Portugal), Patrícia Rebelo, Frits Franssen, Martijn Spruit, Alda Marques

Physical Activity coaching in people with COPD: a systematic literature review
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
Heleen Demeyer (Leuven, Belgium), Martine Van Overbeke, Lucas Vanden Bossche, Astrid Blondeel, Sofie Breuls, Marieke Wuyts, Lode Claes, Yasmin Denutte, Andreas Von Leupoldt, Wim Janssens, Thierry Troosters

Pulmonary telerehabilitation vs. Conventional pulmonary rehabilitation – Secondary responder analysis
Henrik Hansen (Dragør, Denmark), Andre Torre, Thomas Kållemose, Charlotte Suppli Ulrik, Nina Skavlan Godtfredsen

Benefits of pulmonary rehabilitation in low compared to high-resource settings in COPD
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Joana Antão, Cátia Paixão, Patricia Rebelo, Ana Machado, Sara Souto-Miranda, Ana Sofia Grave, Cintia Dias, Guilherme Rodrigues, Tânia Pinho, M Aurora Mendes, Ana Oliveira

Discussion and Q&A

Amber 3+4 Session 11:10 - 14:00
Skills workshop: SW14 Thoracic ultrasound basic principles
Aims: To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.
Disease(s): Thoracic oncology, Interstitial lung diseases
Tag(s): Clinical
Chairs: John Wrightson (Oxford, United Kingdom)

11:10 Introduction
John Wrightson (Oxford, United Kingdom)

11:40 Normal Thoracic Cavity
Morten Bendixen (Skejby, Denmark)

11:40 Pleural effusion and/or pleural thickening
Giovanni Volpicelli (Torno (TO), Italy), Pia Iben Pietersen (Odense C, Denmark)

11:40 Case studies
Radhika Banka (Mumbai (Maharashtra), India)

11:40 Guided interventions
Gilles Mangiapan (Creteil, France), Speaker to be confirmed

Studio (White) Session 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.
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
Speaker to be confirmed

12:15 Discussion and Q&A

12:30 Break

12:35 Novel proregenerative and antiageing targets for the treatment of fibrotic lung disease
Melanie Königshoff (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

12:15-13:15 INDUSTRY LUNCHTIME SYMPOSIUM
SEE PAGE 1

PS-14 in poster area Session 12:30 - 14:00
Poster session: Lung transplantation

Central versus peripheral adaptations after lung transplantation in patients with end-stage chronic obstructive pulmonary disease
Jacob Peter Hartmann (København V, Denmark), Camilla Koch Ryrso, Thomas Kromann Lund, Michael Perch, Pia Thaning, Lasse Gliemann, 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, Daiana Stolz

Regional spirometry by electrical impedance tomography in the postoperative follow-up of Single-Lung Transplantation: Case series
Ignacio Fernández Ceballos (Buenos Aires, Argentina), Joaquin Ems, Miriam Gabriela Marcos, Leiniker Navarro Rey, Juan Martin Nuñez Silveira, Emilio Steinberg, Julieta Gonzalez Anaya, Indalecio Carboni Bisso, Graciela Svetliza, Maria Laura Oraz, 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

Identification of a peripheral blood immune signature of CLAD in lung transplant recipients using spectral flow cytometry
Saskia Bos (Newcastle upon Tyne, United Kingdom), Darius Armstrong, Vicky Gerovasili, Kavita Dave, Martin Carby, John Dunning, Binu Raj, Krishika Rangmang, Haleema Khanum, Gabrija Drazduskaite, Kasim Jiwa, Steve Bolton, Muteb Alatawi, Eduardo De Paiva, Jennie Yang, Jeremy Mason, Adrian Hayday, Andrew J Fisher, Thomas Hayday, Adam Laing, Anna Reed
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, Alberto Sandumenge Camps, Eduardo Miñambres, Jose Maria Mancho, Bernat Planas Pascual, Joan Daniel Marti, Angela Suarez, Joan Marcosbal, Aroa Gómez Brey, Cristopher Mazo, Maria Deu, David Paredes, Gerard Sanchez, Marc Boada, Alba Gómez Garrido, Belen Garcés, Meritxell Pehalver, Adriana Martín, Andrea Pérez

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, Rajaniyer Venkateswaran, Alex Horsley

Nezulcitinib (TD-0903), an inhaled JAK inhibitor reduces ConA-induced lung inflammation and lung injury in mice
Elad Kaufman (South San Francisco, United States), Reuben Sana, Joseph Chen, Matthew Frates, Ilaria Badagnani, Glenmar Obedencio, David Boudret, Edmund Moran

Effect of paclitaxel and methotrexate associated with cholesterol-rich nanoemulsions on ischemia-reperfusion injury after unilateral lung transplantation in rats
Angela Battochio (São Paulo, Brazil), Elaine Tavares, Aristides Correia, Francine Almeida, Priscila Carvalho, Maria Guido, Paulo Pêgo-Fernandes, Raul Maranhão, Rogerio Pazetti

Pre-lung transplant VO2max predicts functional outcomes post-lung transplantation
Emma Bakelants (Kessel-Lo, Belgium), Hanne Beeckmans, Marius Brusselmans, Geert Verleden, Lieven Dupont, Laurent Godinas, Dirk Van Raemdonck, Laurens Ceulemans, Geert Celis, Iris Cooymans, Wim Janssens, Stephanie Everaerts, Robin Vos

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

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

Longitudinal monitoring of LCI in spirometrically stable lung transplant recipients
Madeleine Driskel (Manchester, United Kingdom), John Blaikley, Karthik Santhanakrishnan, Catherine Fullwood, Rajaniyer Venkateswaran, Alex Horsley

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

End-of-life care for lung transplant recipients: a new role for palliative medicine.
Letizia Corinna Morlacchi (Milano (MI), Italy), Maria Pappalettera, Valeria Rossetti, Ilaria Righi, Francesco Damarco, Mario Nosotti, Roberto Ercole Moroni Grandini, Francesco Blasi

Survival of idiopathic pulmonary fibrosis patients treated with antifibrotics versus lung transplantation
Disease(s): Sleep and breathing disorders

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

Chairs: Refika Hamutcu Ersu (Ottawa, Canada), Chair to be confirmed

Utility of overnight oximetry indices in the evaluation of children with suspected Obstructive Sleep Apnea
Yu Qian Koh (Singapore, Singapore), Arun Pugalenthi, 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 Vocos (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 Guillou-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 Mazenq, 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 apnoea 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, Sanije Girit

Reproducibility of home spirometry in children with neuromuscular disease
miriam murlis (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, Sarath 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 Grdacosic, 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 Abbassleem, Fatma Guezguez, Ines Ghannouchi, Sonia Rouatbi

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 Zannin, Giovanni Putoto, Moses Obizu, Samuel Okori, Jerry Ictho, Peter Lochoro, Raffaele L. Dellacà

PS-19 in poster area

Session 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
Chairs : Pierre-Régis Burgel (Paris, France), Chair to be confirmed

Association between mRNA vaccination and COVID-19 hospitalization and disease severity
Adamadia Liapikou (Athens, Greece), Alexandra Kote, Aggeliki Sotiropoulou, Panagiotis Peristeris, Ioanna Augerinou, Ioannis Dimitriou, Stella Kouroula

Impact of IFN-γ and IL-2 measurement in the assessment of the cellular immunity against SARS-CoV-2

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

Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Alpar Horvath, Balazs Santa, Gabor Tomisa, Gergo Szollosi

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, Theoplasti Gregoratou, Eleftherios Zervas, Lykourgos Kolilekas

Investigation of antibody levels during three doses of Sinopharm/BBIBP vaccine inoculation
Baoqing Sun (Guangzhou (Guangdong), China)

Sequela after severe Covid-19 infection during 6 months follow-up according to previous vaccination status.
Laura Alcarraz Vázquez (Zaragoza (Zaragoza), Spain), Iván D. Benítez, María Aguilá, Sally Santisteve, 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 Griffiths, Emma Bruce, Jennifer Han, Rona Smith, Dadvinder 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 Mwasuku, 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, Yael 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 Bartolini, Diletta Cozzi, Edoardo Cavigli, Gianmaria Rossolini, Elisabetta Rosi, Federico Lavorini, Valentina Luzzi, Leonardo Giuntoli, Camilla Comin, Luca Cian, Sara Tomassetti

The role of immunosuppressive therapy in post-COVID-19 interstitial lung disease
Sule Gül (İstanbul, Turkey), Baris Demirkol, Ramazan Eren, Kursad Nurı Baydılı, Burcu Babağлу Elkhatrouushi, Mustafa Çörtük, Erdoğan Çetinkaya

Severe COVID19 pneumonia management in patients receiving Rituximab in a pragmatic clinical setting.
Elly Keramida (Athens, Greece), Georgia Hardavella, Maria Salomidou, Irma Bracka, Thodoris Daskalos, Antonia Zachariou, Eleni Bellou, Fotis Kyriakou, Ioannis Karapaninis, Panagiotis Demertzis, Despoina Zorpidou

Suzana Erico Tanni (Botucatu (SP), Brazil), Robson Prudente, Estefânia Franco, Fernando Wehrmeister, Carlos Breda Neto, Luana Pagan, Mariana Gatto, Leticia Vieira, Liana Coelho, Diane Batista, Luiz Machado, Gustavo Mota, Marina Gaiato, Felipe Santealla, Elisangela Campos, Lize Hosoune, Marina 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 Tsoi, Sze Him Isaac Leung, Ching Ki Tsui, Terence Chi Chun Tam, James Chung Man Ho, David Chi Leung Lam, Mary Sau Man Ip, Pak Leung Ho

PS-11 in poster area
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
Chairs : Vanessa Garcia-Larsen (Baltimore, United States), Imran Satia (Hamilton, Canada)

Is refractory chronic cough a genetic disease?
Laurent Guilleminault (Toulouse Cedex, France), Pauline Chazelas, Boris Melloni, Corinne Magdelaine, Thomas Villeneuve, Danielle Bouquières, Anne-Sophie Lia, Laurent Magy

A register-based study; Chronic Chough in the adult population in Sweden
Lotta Wål (Linköping, Sweden), Össur Emilsson, Kristofer Illergård, Henrik Johansson

Comparison of differences in refractory and unexplained chronic cough patients in Germany: VICHAS study
Peter Kardos (Frankfurt am Main, Germany), Christina Jannowitz, 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, Ané Johannessen, Christer Janson, Andreas Palm, Karl Franklin, Anna Oudin, Francisco Gómez Real, Mathias Holm, Thorarinn Gisladson, Rain Jögi, Vivi Schlüssen, Andrei Malinovschi, Cecilia 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 Jogi, Tejs Ehlers Klug, Henrik Albert Kolstad, Dan Norback, Torben Sigsgaard, Tina Santl-Temkiv, Hulda Thorariandsdottir, Råndi 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
Peter Kardos (Frankfurt am Main, Germany), Christina Jannowitz, 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), Jingqin 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 Ouualaya, 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

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

Clinical Characteristics of Non-Malignant Effusions: Results from the ERS International Collaborative Effusion (ICE) Database
Hugh Welch (Bristol, United Kingdom), J Kerkhoff, J Janssen, S Bielsa, C Civit, J Porcel, K Fjaellegaard, J Petersen, U Bodtger, E Grabczak, R Krenke, M Ellayah, D Addala, R Hallifax, J Wrightson, N Rahman, K Jackson, E Pellis, L Khan, M Chohan, A Aujayeb, G Labarca, I Dhaliwal, M Mitchell, A Rozman, M Marc-Malovrh, S Anevlasiv, M Foudrakis, P White, R Bhatnagar, N Maskell

PS-17 in poster area

Session 12:30 - 14:00
Poster session: What is new in treatment of drug-susceptible tuberculosis, drug-resistant tuberculosis and tuberculosis infection?

Disease(s) : Airway diseases

Method(s) : Public health General respiratory patient care Cell and molecular biology Epidemiology Respiratory intensive care

Chairs : Chair to be confirmed

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, Kyunguen Lee, Yong-Joon Park, Yunhyung Kwon, Youmi Kim, Jae Chol Choi
The use of weekly rifapentine and isoniazid (3HP) for latent TB infection in Australia.
Vicky Chang (Sydney (NSW), Australia), Greg Fox

Relationship between PTLD and multidrug resistance to Tuberculosis
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni Garcia Castro, Luisa Fernanda Sierra Garzon, Laura Sofia Garcia Giraldo

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

Carbapenems and amoxicillin together with B-lactamase inhibitors for the treatment of Tuberculosis, a systematic review.
Carlijn Veldman (Zwolle, Netherlands), Simon Tiberi, Huib Kerstjens, Onno Akkerman

Carbapenems and amoxicillin together with B-lactamase inhibitors for the treatment of Tuberculosis, a systematic review.
Carlijn Veldman (Zwolle, Netherlands), Simon Tiberi, Huib Kerstjens, Onno Akkerman

Molecular Characterization of Drug Resistant pattern of Mycobacterium tuberculosis
Sushma Yadav (Gwalior, India), Surya Kant, Amita Jain, Jyoti Bajpai

Adjunctive Corticosteroid Therapy for severe tuberculosis: Risk factors for poor outcomes?
Amani Ben Mansour (Tunisia, Tunisia), Jallouli Nour Lahbib, Slim Azza, Ben Saad Soumaya, Daghfous Hafaoua, Fatma Tritar

Study of Moxifloxacin and Silver Nanoparticle Composite Efficacy on pre-XDR Mycobacterium Tuberculosis Strains
Teona Avallani (Tbilisi, Georgia), Nino Kiria, Giorgi Phichkhaia, Nino Bablishvili, Nana Kiria

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

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, Richa Tyagi, Ankit Kumar, Anand Srivastava, Rajiv Garg, Naveen Kumar

Isoniazid resistant tuberculosis(Hr-TB): a problem well stated is a problem half solved!
KETAN MALU (AURANGABAD, India), Avinash Lamb

A 15 year Retrospective Analysis of the Impact of Hearing Loss following IV Aminoglycoside use for Multi-Drug Resistant Tuberculosis
Ciara Ottewill (Dublin 4, Ireland), Tobias Maharaj, Maria Kane, Lorraine Dolan, Joseph Keane, Anne Marie McLaughlin

TREATMENT OUTCOMES OF EXTENSIVELY DRUG-RESISTANT TUBERCULOSIS (XDR-TB) IN MONGOLIA: RETROSPECTIVE STUDY
Bolyskhan Baigabyl (Ulaanbaatar, Mongolia), Bolor Rash, Oyunchimeg Adilaa, Yanjindulam Purevsuren, Dorjderem Radnaa

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

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 Panasijukova, Svitlana Yasir, Andriy Taranenko, Maryna Budyonna, Galina Gumeniuk

Features of the treatment outcome of patients with multidrug-resistant tuberculosis and Beijing lineage 2 of Mycobacterium tuberculosis in Kharkiv region, Ukraine
Dmytro Butov (Kharkiv, Ukraine), Tetiana Butova, Natalia Rudova, Nadiya Sapelnik, Olena Borysova, Oleksii Solodiankin

Dexamethasone Reduces Metabolic Function and Subsequent Activation of Human Macrophages to Mycobacterium Tuberculosis.
Lorraine Thong (Co. Cork, Ireland), Donal Cox, Joseph Keane
| **Session** | **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

**Chairs:** Maxime Patout (Paris, France), Tim Raveling (Groningen, Netherlands)

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<td>Anna Ridgers (Heidelberg, Australia), Warren Ruehland, Liam M Hannan, David J Berlowitz, Mark E Howard</td>
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<td>Reliability of nocturnal transcutaneous capnography in a real-world scenario</td>
<td>Cristian Correa (Madrid, Spain), Daniel Lopez Padilla, Stephany Briones Alvarado, Manuel Mor Martinez, Katiuska Herminia Liendo Martinez, Elena Ojeda Castillejo, Ila Tiffy Essa, Francisco Jose Caballero Segura, Luis Puente Maestu, Soledad Lopez Martin</td>
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<td>Automatic detection of ineffective efforts (IE) in non-invasive ventilation (NIV)</td>
<td>Pablo Florez Solarana (Madrid, Spain), Cristina Lalmolda Puyol, Marta Corral-Blanco, Ana Hernandez Voth, Concepcion Monton Soler, Xavier Pomares Amigó, Javier Sayas Catalán, Manel Lujan Torné</td>
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<td>The forced oscillation technique is useful for evaluation of high-flow nasal cannula. Federation of National Public Service Personnel Mutual Aid Association</td>
<td>Miyuki Okuda (Neyagawa, Japan)</td>
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<td>Development of a Questionnaire for Therapy Adherence and Comfort in Non-invasive Ventilation: a simple Instrument for the Assessment of Patient-relevant Parameters</td>
<td>Doreen Kroppen (Köln, Germany), Maximilian Wollsching-Strobel, Daniel Majorski, Maximilian Zimmermann, Melanie Berger, Wolfram Windisch, Sarah Schwarz</td>
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<td>Within- and between-day reliability of inspiratory responses to rapid bilateral magnetic phrenic nerve stimulation</td>
<td>Kyle Boyle (Zurich, Switzerland), Andrea Beglinger, Heinrich Häusler, Patrick Schöhn, Christina Spengler</td>
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<td>Deventilation syndrome in COPD patients receiving non-invasive ventilation: A systematic scoping review</td>
<td>Maximilian Wollsching-Strobel (Köln, Germany), Karsten Stannek, Daniel Majorski, Friederike Magnet, Doreen Kroppen, Melanie Berger, Maximilian Zimmermann, Wolfram Windisch, Sarah Schwarz</td>
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<td>The use of home-based nocturnal capnography and oxymetry in personalized long-term non-invasive ventilation in COPD patients</td>
<td>Line Storgaard (Aabybro, Denmark), Nicolas Siadous, Anne-Mette Meldgaard, Ulla M. Weinreich</td>
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<td>Adaptation of non-invasive mechanical ventilation at home vs adaptation in hospital</td>
<td>Cristina Sánchez Fernández (Oropesa, Spain), Daniel Eduardo López Padilla, Virginia Gallo González, Katiuska Herminia Liendo Martinez, Soledad López Martinez, Elena Ojeda Castillejo, Luis Puente Maestu, Teresa Gómez Garcia</td>
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<td>Outpatient initiation of non-invasive home ventilation. Two-year experience in a referral hospital. Real-life observational study.</td>
<td>Ane Lopez Gonzalez (Barcelona, Spain), Cristina Aljama Vizcarra, Maria Saéz López, Júlia Sampol, Miriam Barrecheuren, Mercedes Pallero, Nuria Rodés, Gabriel Sampol, Sergi Marti</td>
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<td>The evaluation of home non-invasive ventilation with telemonitoring in stable hypercapnic COPD patients: A retrospective case-control study</td>
<td>Lok Yan Lee (Hong Kong, Hong Kong), Huilin Cheng, Alice Yuen Loke, Suk Fong Wai, Kah Lin Choo</td>
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<td>Successful ongoing experience of outpatient/telemedicine NIV initiation and follow-up in ALS patients during and after COVID pandemic</td>
<td>Pierluigi Intiglietta (Bari (BA), Italy), Paola Pierucci, Gualtiero Romano, Marialuisa De Candia, Simone Rizzelli, Alberto Carrassi, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpanzano</td>
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<td>Implementation of an advanced clinical practitioner led NIV follow up service in a secondary care setting</td>
<td>Hannah Petty (Manchester, United Kingdom), Emma Gray, Nazhad Mohiuddin, Thomas Bongers</td>
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<td>Validation of the S3-NIV-questionnaire in Danish and symptom burden in COPD patients in long-term non-invasive ventilation treatment</td>
<td>Line Storgaard (Aabybro, Denmark), Nicolas Siadous, Anne-Mette Meldgaard, Ulla M. Weinreich</td>
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<td>Effect of Non-Invasive Ventilation on FVC and diaphragm thickening fraction improvement in AE-COPD with hypercapnic acidosis and acute respiratory failure</td>
<td>Salvatore Longobardi (Milan, Italy), Sara Bombelli, Claudia D’Antoni, Fabrizio Nava, Sara Mariani, Michele Chiericozzi, Paolo Tarsia</td>
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Comparison of constant-minute-volume vs. constant-bolus systems for ambulatory long-term-oxygen therapy in patients with severe COPD – a randomized crossover trial
Daniel Majorski (Cologne, Germany), Saba Khan, Sarah Schwarz, Maximilian Wollsching-Strobel, Doreen Kropfen, Tim Mathes, Friederike Magnet, Wolfram Windisch

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
Guilherme Areas (Amazonas, Brazil), Cassia Luz Goulart, Guilherme Dionir Back, Fernanda Facioli Dos Reis Borges, Jefferson D. Silva-Valente, Camila Sato Barros Do Amaral, Edival Ferreira De Oliveira Júnior, Eduardo Fernandes Da Silva Junior, 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
Vitalie Faoro (Brussels, Belgium), Corentin Scoubeau, Alexis Gillet, Olivier Tatot, Marine Carpentier, Julie Carpentier, Malgorzata Klass

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, Laiemme Carla Barbosa De Barros Albuquerque, José Angelo Rizzo, Claudio Gonçalves De Albuquerque, Steve Hunter, Nadia Gaia, Edil Albuquerque Rodrigues Filho, Dacio 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 Knöpfler, 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

6MWT performance of COPD exacerbators
Zlatina Ivanova (Pleven, Bulgaria), Nikolay Kyuchukov, Yavor Ivanov
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

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, Darío Angelone, Paolo Palange

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 Fryenius, Kristofer Hedman

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, Gael Deboeck

Severity and phenotypes of dyspnea in asthma: impact of comorbidities
Cécile Chenivesse (Lille Cedex, France), Awa Bousso, Celine Chuffart, Maxime Leroy, Alice Gicquelle, Aurelie Cottereau, Florence Hennegreave, Antoine Beurnier, Thomas Stoup, Sophie Pereira, Capucine Morelot-Panzini, Camille Taille, Nathalie Bautin, Stephanie Fry, Thierry Perez, Gilles Garcia

Assessment of a novel 15 Watt/minute incremental ramp treadmill protocol for cardio-pulmonary exercise testing in Indian population.
Abhijith K Anil (New Delhi, India), Kumar Nischay Jaiswal, Geetanjali Bade, Anjana Talwar

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

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 Héluain, 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 Avanzi, 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 in endobronchial valves in COPD patients after endoscopic lung volume reduction
Eva Pappe (Berlin, Germany), Ralf-Harto Hübner, Laura Kursawe, Kurosh Sarbandi, Jacopo Saccamanno, Martin Wittenrath, Alexander Wiessner, Annette Moter, Judith Kikhney

Endobronchial valve (EBV) insertion for emphysema quickly improves sarcopenia
Julia Rubenstein (Talence, France), Ilyes Benlala, Anne-Claire Toubian, Marina Guécamburu, Claire Bon, Charlotte Vergnenegre, Arnaud Maurac, Leo Grassion, 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
Konstantina Kontogianni (Heidelberg, Germany), Ann-Sophie Unterschenmann, Franziska Trudzinski, Judith Brock, Daniela Gompelmann, Felix J'Herth, Ralf Eberhard

PS-20 in poster area Session 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

Chairs : Mohammed Munavvar (Preston (Lancashire), United Kingdom), Sara Tomassetti (Florence, Italy)

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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, Matthias Rötting, Ines Richter, Markus Polke, Nilab Polke, Ralf Eberhard, Claus Peter Heussell, Felix Herth

PERSISTENT AIRLEAK TREATED WITH ENDOBRONCHIAL VALVES, A TERCIARY HOSPITAL EXPERIENCE.
Cristina Sánchez Fernández (Oropesa, Spain), Katiuska Herminia Liendo Martínez, Christian Reynaldo Castro Riera, Paola Antonella Benedetti, José Javier García López, Luis Puente Ares

ROLE OF CRYOBiPSY IN THE INTERSTITIAL LUNG DISEASE DIAGNOSTIC ALGORITHM
Alejandro Golfe Bonmatí (Valencia, Spain), Marina Alcaraz Barcelona, Wanda Almonte Batista, Javier Cruz Ruiz, Concepción Patricia López Miguel, Jesús Jiménez López, Raúl Godoy Mayoral, Álvaro 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 (Heiderberg, Germany), Christos Athanasiou, Ralf Eberhardt, Julia D. Michels, Julia Carmen Schäfer, Mavi Schellenberg, Monika Eichinger, Markus Polke, Felix J. F. Herth, Michael Kreuter, Judith Brock

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 Chai, Nga Hung Ngu, 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
Gang Hou (Beijing, China), Yiding Bian, Mingming Deng

Healthy volunteer symptom profile following research bronchoscopy
Hazel Morrison (Bridgwater (Somerset), United Kingdom), Susan Jackson, Julia Marshall, Celia Mitton, Raquel Lopez Ramon, Timothy Fredsgaard-Jones, Andrew Maver, Clare Wilkins, Henry Bettinson, Timothy Hinks, Helen Meshane

Shape Sensing Robotic-Assisted Bronchoscopy for Diagnosis of Ground-Glass and Subsolid Pulmonary Nodules
Nikitha C. Chandra (Jacksonville, United States), David Abia-Trujillo, Alejandra Yu Lee-Mateus, Anoop Koratala, 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
Laetitia Amar (Montreal, Canada), Ping Shi Zhu

PS-5 in poster area Session 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
Chairs : Sara Rolandsson Enes (Lund, Sweden)

The effect of Porphyromonas gingivalis on inflammatory pathology in normal or COPD airway
Noriki Takahashi (Kumamoto, Japan), Toru Kariu, Megumi Hayashi, Tomoki Kishimoto, Choyo Ogawara, Ayami Fukuyama, Keisuke Kawano, Mary Ann Suico, Hirofumi Kai, Tsuyoshi Shuto

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 Areny-Balagueró, Pamela Conde, Luis Blanch, Laia Fernández, Antonio Artigas, Marta Camprubi-Rimblás

Prone position ventilation decreased the susceptibility to murine Pseudomonas aeruginosa pneumonia
Jingjing Li (Cambridge, United Kingdom), Matthias Felten, 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 (Anápolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anamiz Silva-Reis, Lucas Dos Santos Zamarioli, Sergei Urusov, Tatiana 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 Areny Balaguérol (Sabadell, Spain), Marta Camprubi-Rimbals, Elena Campaña-Duel, Adrián Ceeccato, 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 (Otsu, Japan), Yuri Morikawa, Takako Sasamura, Jun Terai, Thanh Cong Nguyen, Yasushi Itoh

LSC - 2023 - Activated -inflammatory states of airway cells in Long COVID
Nadia Baalbaki (Bennekom, Netherlands), Merel Cornelissen, Cornelis Van Drunen, Laura Houweling, Lieke Noij, Marco Van De Werken, Golebski Korneliusz, Anke-Hilse Maitland-Van Der Zee

Relative abundance of Haemophilus as a component of the respiratory microbiome is not associated with airway epithelial MUC5AC staining
Sarah Diver (Nottingham, United Kingdom), Kaberi Haldar, Latifa Khalifahou, Fiona Symon, Simon Couillard, Beverley Hargadon, Rekha Chaudhuri, Steve Bicknell, Adel Mansur, Rahul Shrimanker, Timothy Hinks, Ian Pavord, Stephen Fowler, Vanessa Brown, Lorcan Mgearvey, Liam Heaney, Cary Austin, Peter Howarth, Joseph Arron, David Choy, Peter Bradding On Behalf Of The Investigators For The Uk Mrc Refractory Asthma Stratification Program (rasp-Uk)

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, Hubertus P A Jersmann, Paul N Reynolds

Effects of patient serum containing different profiles and magnitudes of inflammatory markers on human microvascular lung endothelial and bronchial epithelial cells
Kokilavani Sivaraman (Hannover, Germany), Julia Held, Thomas Illig, Sonja Volland, Tobias Welte, Sabine Wrenger, Sabina Janciauskiene

In vivo inflammation resolving effect of EP395
Yanira Riffo-Vasquez (London, United Kingdom), Michael J. Parnham, Clive Page, Jennifer A. Kricker

Eosinophilia and the microbiome in COPD
Gunmar Reksten Husebø (Fana, Norway), Rune Nielsen, Kristel Knudsen, Andreu Paytuví-Gallart, Walter Sanseverino, Tomas Eagan

Counter-Regulation of the proteasome activator PA200 and the immunoproteasome in lung Fibrobroblasts–Implications for anti-viral immune responses in IPF
Fatme Mourtada (Borstel, Germany), Vanessa Welk, Johannes Nowak, Angelique Sanchez Dafun, Dušan Zivković, Juliet Marcoux, Marie-Pierre Bousquet, Juergen Behr, Silke Meiners

Biomass particles activate IKB-α, P-38 and ERK pathways in human macrophages.
Peter Fenwick (London, United Kingdom), Rebecca Holloway, Sundee 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 Panico, Salvatore Di Maro, Erica Salvati, Erika Cione, Luca Gallelli, Sandro Conconati, Bruno D’Agostino
**PS-7 in poster area**

**Session**: 12:30 - 14:00

**Poster session**: Biological treatments for asthma: novel real-life insights

### Disease(s)

- Airway diseases

### Method(s)

- Pulmonary function testing
- General respiratory patient care
- Epidemiology
- Public health
- Cell and molecular biology

### Chairs

- Nicolas Roche (Paris, France), Simon Lea (Manchester (Greater Manchester), United Kingdom)

### Biological Treatment in Persistent Severe Asthma

Edurne Echevarría Guerrero (Barakaldo, Spain), Ana Gómez Larrauri, Jone Solorzano Egurbide, Imanol González Muñoz, Elena Garay Llorente, Teresa Bretos Dorronoso, Silvia Pérez Fernández, Milagros Iriberri Pascual, Nuria Marina Malanda

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 rEAI Life regIStry of benralizuMab: REALISM Study)


Treating severe IgE mediated allergic adult asthmatics with omalizumab outside the dosing table

Etienne Ceci Bonello (Naxxar, Malta), Caroline Goudier

Agreement and discrepancies between past prescribing decisions and future prescribing preferences: An EU outlook

Samantha Valliant (Upper Providence, United States), Joshua Harvey, Shiyuan Zhang, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Rafael Alfonso-Cristancho

Biologic treatment patterns of severe asthma patients in the EU-4 and the UK

Samantha Valliant (Upper Providence, United States), Joshua Harvey, Shiyuan Zhang, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Rafael Alfonso-Cristancho

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, Rehah Al Maashari, Marwan Najib, Muhammad Tufail Tufail

Phenotypical distribution according to the age of asthma onset in patients evaluated for biologic therapy prescription in a referral center in Colombia

Abraham Ali Munive (Bogotá (Cundinamarca), Colombia), Yaicith Arevalo-Montenegro, Oscar Correa-Jimenez, Leidy Prada, Libardo Jimenez-Maldonado, Mauricio Duran, Juan Bedoya, Carlos A. Torres-Duque

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 biologics on lung function, inflammation and asthma control in patients treated for severe eosinophilic or type-2 inflammatory asthma 4months after treatment initiation

Peter Emil Folkersen (Aarhus 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

Nasal Mucociliary Clearance of 99mTc-albumin colloid: a quantitative test of nasal ciliary function and potential outcome parameter in primary ciliary dyskinesia
June Kehlet Marthin (Bagsvaerd, Denmark), Kim Gjerum Nielsen, Jann Mortensen

Use of Immunofluorescence Staining in Primary Ciliary Dyskinesia Diagnosis
Mine Kalyoncu (Istanbul, Turkey), Mürüvvet Yanaz, Aynur Guliyea, Merve Selçuk, Şeyda Karabulut, Neval Metin Çakar, Pınar Ergenekon, Rim Hjeij, Ella Erdem Eralp, Yasemin Gokdemir, Heymut Omran, Bulent Karadağ

Repeating ciliary videomicroscopy improves the specificity for PCD diagnosis
Lionel Benchimol (Liege, Belgium), Noemie Bricmont, Romane Bonhiver, Doriane Calmes, Anne-Lise Poirier, Marie-Christine Seghaye, Renaud Louis, Philippe Lefèvre, Celine Kempeneers

Genomics of Haemophilus influenzae strains in a paediatric Primary Ciliary Dyskinesia cohort
Klara Schmidhalter (Vienna, Austria), René Gaupmann, Magda Diab-El Schahawi, Birgit Willinger, Zsolt Szépfalusi, Eleonora Dehlink

Disease manifestations in siblings with primary ciliary dyskinesia
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
Dvir Gatt (Toronto, Canada), Rahul Verma, Jacob Mccoy, Lyzette Garcia Bonila, Andrew Zikic, Shaima Alkhouri, Rawan Alfouzan, Kate Gent, Jackie Chiang

Nurse led Education on e-cigarette use in adolescents.
Mira Osinibi (London, United Kingdom), Cara Bossley

A novel pediatric polycystic lung disease caused by CCR2 deficiency
Bruce Trapnell (Cincinnati, United States), Anna-Lena Neelhus, Marija Landekic, Darawan Rinchai, Patricia Panikulam, Quentin Philippot, Tom Le Voyer, Masato Ogishi, Jérémie Rosain, Mana Momenilandi, Carlos Andrés Arango Franco, Marta Martin-Fernandez, Taushif Khan, Jonathan Bohlen, Jeremy Manry, Ji Eun Han, Alexandre Deslys, Tania Gajardo-Carrasco, Camille Soudée, Melanie Migaud, Yoann Sceletuthner, Eirini Nikoloul, Simin Seydipour, Hugues Begueret, Chantal Brouzes, Pablo Vargas, Nico Lachmann, Raphael Boire, Nico Marr, Dusan Bugonovic, Mohammadreza Modaresi, Larry Nogee, Daniel Craven, Nima Rezai, Mohammad Shahrooiee, Stephanie Boisson-Dupuis, Fernando Sepulveda, Vivien Béziat, Nathalie Aladjidi, Laurent Abel, Philippe Gros, Danielle Malo, Lisa Young, Robin Deterding, Gail Deutsch, Brenna Carey, Jean-Laurent Casanova, Jacinta Bustamante

Multiple-breath washout for the detection of lung disease in patients with inborn errors of immunity
Leonie Marie Busack (Berlin, Germany), Stephanie Thee, Jobst Röhmel, Renate Krüger, Marcus A. Mall, Horst Von Bernuth, Mirjam Stahl

Respiratory care burden in children with aspiration
Christopher Edwards (Leeds (West Yorkshire), United Kingdom), Jennifer Unwin, Ayesha Jannat, Liz Franklin

Evaluation of sputum cultures in children with spinal muscular atrophy
Hagit Levine (Even Yehuda, Israel), Yoram Nevo, Julia Katz, Huda Musaffi, Gabriel Chodick, Meir Mei-Zahav, Stafler Patrick Stafler, Guy Steuer, Ophir Bar-On, Hadas Mantin, Dario Prais, Sharon Aharoni

Effects of selumetinib treatment for neurofibromatosis type 1 on pulmonary function in children and young adults
Elettra Zuliani (Trieste, Italy), Sergio Ghirardo, Francesco Baldi, 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

PS-6 in poster area
Poster session: Navigating the latest chronic obstructive pulmonary disease therapeutic trends
Disease(s): Airway diseases
Method(s): Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology
Chairs: Carolina Gotera (Madrid, Spain), Gareth Hynes (Oxford (Oxfordshire), United Kingdom)
Step up to ICS/LAMA/LABA vs switch to LAMA/LABA in patients with COPD on ICS/LABA: post hoc analysis of KRONOS
Dave Singh (Manchester, United Kingdom), Mona Bafadhel, Karin Bowen, Niki Arya, Jonathan Marshall, Himanshu Parikh, Mehul Patel

Persistence to inhaled long-acting maintenance therapy in patients with COPD in UK routine clinical practice
Kieran J. Rothnie (London, United Kingdom), Robert P. Wood, Beade Numbere, Monica Seif, Gema Requena, Christina Diomatari, Emma C. Goodall, Stephen G. Noorduyn, Charley Cooper, Raj Sharma, Chris Compton, Afisi S. Ismaila

Heterogeneous treatment effect estimation of LABA/LAMA/ICS on COPD exacerbation risk in the IMPACT trial
Kenneth Verstraete (Leuven, Belgium), Iwein Gyselinck, Helene Huts, Maarten De Vos, Wim Janssens

Experience of clinicians on dual bronchodilator therapy in COPD (EXPAND) in Nepal
Sanjeet Krishna Shrestha (Lalitpur, Nepal), Sharad Bhattacharai, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay

Clinically important deterioration and COPD treatments: a pairwise meta-analysis
Gian Marco Manzetti (Marino, Italy), Luigiino Calzetta, Mario Cazzola, Paola Rogliani

Methods to assess adherence to COPD medication in electronic healthcare databases: a systematic review
Delphine Vauterin (Ghent, Belgium), Frauke Van Vaerenbergh, Anna Vanoverschelde, Jennifer K Quint, Katia Verhamme, Lies Lahousse

Adherence to COPD treatment during the war: can we maintain the previously achieved results?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk

Adherence to COPD treatment and concomitant diseases: is there influence?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk

Tulobuterol Transdermal Patch as an add on therapy in Stable COPD
Rekha Parameswari (Kottayam (Kerala), India), Parakkal Sukumaran, Thomas Beena, R Radhika, M Midhun, P Rekha, K P Venugopal, Ninan Mathew

Inhaled triple therapy versus dual bronchodilation in smokers patients with COPD: a 3-year observational study
Angelo Petroiani (Roma (RM), Italy), Marco Bezzio, Silvia Magliulo, Manuel Santu, Paolo Palange

The national development in the use of inhaled corticosteroid treatment for chronic obstructive pulmonary disease in Denmark from 1995 to 2018
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke

Economic benefit of fluticasone furoate (FF)/umeclidinium (UMEC)/vilanterol (VI) by baseline blood eosinophil (EOS) count in COPD in the UK - The IMPACT trial
Afisi S Ismaila (Malvern, United States), Dhvani Shah, Alan Martin, Robyn Kendall, Stephen G Noorduyn, Priyadarssini Dasari, Nancy A Risebrough, Chris Compton

Does azithromycin modulate cardiovascular risk following acute pulmonary exacerbations of chronic obstructive pulmonary disease?
Freddy Frost (Liverpool, United Kingdom), Tomasso Bucci, Dennis Wat, Sarah Sibley, David Green, Gregory Lip

Safety and efficacy of home initiation of chronic non-invasive ventilation in patients with severe COPD and chronic hypercapnic respiratory failure.
Emma Parkes (Cardiff, United Kingdom), Eilish Yarham, Kirsty Eastwood, Michelle Davies, Stuart Packham

A meta-analysis on the importance of peak inspiratory flow variance in simplifying DPI prescribing for COPD patients
Monbi Stefanova Chakma (UPMINSTER, United Kingdom), Omar S Usmani, Liangfeng Han, Bryan Newman, Eslam Ibrahim, Darragh Murnane

Inhaler technique mastery in elderly COPD patients with cognitive impairment trained on different inhaler devices
Elsa Mazzarella (Florence, Italy), Letizia Dal Bosco, Guido Arena, Riccardo Soldaini, Amedeo Vannacci, Federico Lavorini

Extra-fine Particle Inhaled Corticosteroids Influence on the Risk of Hospitalization due to Pneumonia in Patients with Chronic Obstructive Pulmonary Disease - A Populations-Based Cohort Study
Christian Kjer Heerfordt (Hellerup, Denmark), Christian Rønn, Zitta Barrella Harboe, Pradeesh Sivepalan, Josefin Eklöf, Jens-Ulrik Stæhr Jensen

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.
Ulrica Scaffidi Argentina (PARMA, Italy), Luca Richeldi, Pietro Schino, Elena Bargagli, Alberto Ricci, Alberto Roca, Francesca Marchesani, Alfio Pennisi, Gianna Camiciottoli, Mariella D'Amato, Francesco Macagno, Elena Garavelli, Eleonora Ingrassia, Alessio Piraino
Comparative efficacy of beclometasone/formoterol/glycopyrronium bromide (BEC/FOR/GLY) vs other combination triple therapies for the treatment of COPD. A network meta-analysis
Martina Orlovic (Parma, Italy), Alessandra Madoni, Dimitrios Tzelis, Anastasios Tassoulias, Theo Mantopoulos, Yogesh Punekar

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

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

Poster session: COVID-19 outcomes

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

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

Chairs: Arietta Spinou (London, United Kingdom), Tony De Soyza (Newcastle-upon-Tyne, United Kingdom)

Does pre-existing respiratory disease affect 3-month outcome following severe COVID: a matched prospective cohort across 4 waves
Olivia Vanderkerckhove (Sint-Pieters-Rode, Belgium), Eveline Claey, Nele Steyaert, Walter De Wever, Wim Janssens, Lieven Dupont, Pascal Van Bleyenbergh, Greet Hermans, Natalie Lorent

Risk factors for secondary organizing pneumonia in patients with COVID-19 pneumonia
Alisa Aikwanich (Pathum-Thani, Thailand), Dararat Eksombatchai, Tananchai Petnak, Tanapat Tassaneyasin, Viboon Boonsarnsuk

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

12-Month follow-up study of patients after hospitalization for COVID-19
Ivan Rosas (Houston, United States), James A. McKinnell, Reena Shah, Michael Waters, Bradley Hunter, Robert Jeanfreau, Alejandra Benitez, Larry Tsai, Margaret Neighbors, Ben Trzaskoma, Rita De Cassia Castro, Fang Cai

Applying machine learning algorithms to predict outcomes in hospitalized COVID-19 patients
Ahmed Dhia El Euch (Sfax, Tunisia), Soumaya Triki, Nour Kallel, Rahma Gargouri, Nesrin Kallel, Walid Feki, Imed Gargouri, Samy Kammoun

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 Zaacks, Ori Wand, Natalya Bilenko

Persistent symptoms, lung function and imaging abnormalities in patients with COVID-19 pneumonia at 1-year follow-up for severe COVID-19
Arturo Cortes-Telles (Merida (Yucatan), Mexico), Luis Alberto Solís-Díaz, Heideger Norberto Mateos-Toledo, Esperanza Figueroa-Hurtado, Diana Lizbeth Ortiz Farias, Yuri Noemi Pou-Aguilar, Saúl Vázquez-López

Association between pre-hospital inhaled corticosteroid use and COVID-19 outcomes
Marija Vukoja (Sremiska Kamena, Republic of Serbia), Aysun Tekin, Nereida Parada, Javahn Gray, Alan Mallouhi, Tiana Roddy, Amos Lal, Yuhanhuo Zou, Joshua Denson

Pulmonary lung function and blood gas analysis in patients after severe Covid-19 pneumonia
Plamena Stoimenova (Plovdiv, Bulgaria), Stoinka Mandadzhieva, Blagoj Marinov

Secondary infectious complications of the airways in patients with post-COVID-19 syndrome
Galyna Gumeniuk (Kyiv, Ukraine), Mykola Gumeniuk, Viktoria Ignatieva, Maryna Polianska, Svitlana Opimakh, Mykola Lynnyk, Svitlana Moskalenko, Dmytro Butov

Tabacco smoking and post COVID-19 syndrome
Mariem Friha (Ariana, Tunisia), Hajer Raci, Mariem Chaaban, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch

Co-infection and secondary infection in critically ill Omicron variant COVID-19 patients in a university hospital
Yi-Ting Chen

Functional and radiological correlation of ICU survivors with severe COVID-19 at 1 year follow up from the OUTSTRIP COVID-19 prospective cohort study
Merlin Thomas (Doha, Qatar), Mousa Hussein, Mansoor Hameed, Jaweria Akram, Rajalekshmi Nair, Rajendra Kumar, Amal Rashid, Aisha Aladab, Saibou George, Mushtaq Ahmad, Maysa Abdelhafeez, Aalaa Kambal, Tasleem Raza
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

Habits and predictors of poor sleep quality in post-Covid-19
Nouha Guediri (Tunis, Tunisia), Rania Kaddousi, Hadhemi Rejeb, Hela Kammoun, Iteb Ben Limem, Imen Ben Salah, Hanene Smadhi, Dorra Greb, Ines Akrout, Hela Hassen, Hager Benadelghaffar, Leila El Fekhii, Mohamed Lamine Megdiche

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, Abhilash Paul Prabhakar

Identification of long COVID phenotypes based on clinical presentation at 3 to 6 months post SARS-CoV-2 infection: results from the P4O2 consortium

Long covid symptoms in hospitalized and non-hospitalized patients
GEORGIA CHASAPIDOU (THESSALONIKI, Greece), Christoforos Proimos, Eleni Eleftheriadou, Maria Konstadindou, Dionisia Samara, Dimitra Daiou, Mei Gramenou, Efi Kamariotou, Panagiotis Georganakis, Elena Giovani, Valentina Pergidou, Petros Ekoutsidis, Leiferis Doulgerakis, Diamantis Chlorsos

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 Bannapressou, Efiichia Polidora, Rafaela Siampmi, Ioannis Katalomienes

Fatigue in post COVID-19 patients: the P4O2 COVID-19 study

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

Can biomarkers predict survival in idiopathic pulmonary fibrosis?
Abdullah Kayikci (Eskisehir, Turkey), Fusun Alatas, Huseyin Yildirim

Characteristics in patients with Progressive Fibrosing Interstitial Lung Disease (PFILD) treated with Nintedanib: data from a specialist centre
janet johnston (Manchester, United Kingdom), Lachlan Stranks, Kate Newman, Theresa Garfoot, Laurence Pearmain, Stefan Stanel, Coral Hayton, Colm Leonard, Greaves Melanie, Pilar Rivera-Ortega

COPD assessment test (CAT) in patients with COPD and compensated heart failure
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Sanina, Tetyana Pertsvea, Tamara Turlyun

Unexplained or refractory chronic cough and mental health disorders: review of this relationship and response to pregabalin therapy
Mathieu Saint-Pierre (Ottawa, Canada)

Factors involved in poor asthma medication adherence and barriers to the control of the disease
Younes Asma (Sfax, Tunisia), Rahma Gargouri, Souha Abdenneji, Rim Khemakhem, Ilhem Yangui, Walid Feki, Samy Kammoun
Humoral and cellular immunity monitoring of Sinopharm/BBIBP COVID-19 vaccine
Zhangkai Cheng (Guangzhou, China), Huimin Huang, Peiyan Zheng, Mingshan Xue, Zhiman Liang, Baoqing Sun

Exploring secondary breathlessness outcomes: the Morphine vs Placebo trial
Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sandra Louw, Philip Mccloud, Miriam Johnson, Katherine Clark, David Currow

Oxygen prescribing: can we meet the desired standards?
Laura White (Manchester, United Kingdom), Kamal Ibrahim, Zartsht Carmichael, Kyle Cromey

Responder rates in patients with acute cough treated with ivy leaves dry extract clearly exceed placebo response
Ralph Mösges (Köln, Germany), Esther Raskopf, Andreas Völpi

A Composite Screening Method to maximise the Detection-Rate of Obstructive Sleep Apnoea in Train Drivers
Syeda Nafisa (Nottingham, United Kingdom), Lanre Ogunyemi, Tanya Stacey, Milind Sovani

Rigorous cardiac assessment helps clarify causes of recurrent admission in patients with COPD
Joseph Kibbler (Carlton, United Kingdom), Eduwin Pakpahan, David Ripley, Stephen C Bourke, John Steer

Efficacy of Blonanserin Transdermal Patch on Terminal Delirium in Patients with Respiratory Diseases
Katsutoshi Ando (Meguro, Japan), Ayumi Suzuki, Azumi Motosaku

Knowledge of COPD among Adults in Saudi Arabia’s Eastern Province: An interim Results
Jaber S. Alqahtani (Dammam, Saudi Arabia), Areej Hassan Alamri, Roaa Saleh Bajahlan, Afrah Fahad Alanazi, Asalah Ahmed Hakami

Factors associated with treatment failure in an adult population of chronic coughers
Alessia Catalisano (Firenze, Italy), Mariangela Cascio Mariana, Claudia Mannini, Guja Bernacchi, Giovanni Colapietro, Giovanni Fontana, Federico Lavorini

Respiratory symptoms (RS) and pulmonary function (PF) in patients (pts) with chronic lymphoproliferative diseases (CLPD)
Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko

Characterisation of progressive fibrosing phenotype (PF-ILD) in patients with hypersensitivity pneumonitis (HSP)
Ahmed Suleman Haque (Gillingham, United Kingdom), Katherine Brignall, Shanthi Paramothayan, Vijayakumar Ganesh

Brachiolitis obliterans syndrome after hematopoietic stem cell transplantation - single center experience
Özlem Isik (Ankara, Turkey), Güldane Cengiz Seval, Serhat Erol, Selami Koçak Toprak, Özlem Özdemir Kumbasar

Biologic agents in idiopathic hypereosinophilic syndrome: a case series
Ourania Papaioannou (Patras, Greece), Theodoros Karampitsakos, Eirini Zarkadi, Panagiota Tsiri, Electra Koulousousa, Eva Theochori, Vasiliki Dimou, Georgios Tsirikos, Ioannis Christopoulos, Mathios Katsaras, Ella Malakounidou, Aristidis Vassiliou, Kyriakos Karkoulias, Dimitris Lykouras, Alexandros Kaparianos, Dionysios Papalexatos, Fotios Sampsonas, Argyrios Tsouvelekis

Blood biomarkers in patients with Alpha-1 Antitrypsin Deficiency from the EARCO CRC Registry
Cristina Aljama Vizcarra (Reus, Spain), Alexa Nuñez, Cristina Esquinas, Hanan Tanash, Eva Bartošovská, Gerard Orriols, Georgina Farago, Gali Granados, Miriam Barrecheguren, Marc Miravitlles

**PS-8 in poster area**

**Session** 12:30 - 14:00

**Poster session: Severe asthma**

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

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

**Chairs:** Fabio L. M. Ricciardolo (Torino, Italy), Stylianos Loukides (Athens, Greece)

**Improved spirometric and oscillometric indices in severe asthma with clinical remission by anti-IL-5/IL-5 receptor alpha antibodies**
Taisuke Akamatsu (Shizuoka, Japan), Kohei Okawa, Keita Hirai, Toshihiro Shirai

**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 Martinez 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 Levra, 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, Molk Maalej, Ines Kammoun, Kawthar Masmoudi

A retrospective real-life study on the switch of biologics in severe asthma
Sonia Garino (Leini, Italy), Giuseppe Guida, Elisa Riccardi, Vitina Carriero, Francesca Bertolini, Mattia Brusamento, Stefano Pizzimenti, Stefano Levra, Fabio Luigi Massimo Ricciardolo

The effect of anti-IL-5 biologics on lung function in adults with severe eosinophilic asthma.
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Brendan Cooper, Julie Sullivan, Lisa White, Anilkumar Pillai, Adel Mansur

Effectiveness of anti-IL5 biologics in severe asthma, based on real world observational studies: a systematic review
Dimitrios Potonos (Ioannina, Greece), Konstantinos Exarchos, Christina Aggelopoulou, Evangelos Beris, Aggelos Ladias, Christos Kyriakopoulos, Athena Gogali, Konstantinos Kostikas

“Head-to-head” comparison between biologics in severe asthma: a real-world study
Elisa Riccardi (Massino Visconti, Italy), Giuseppe Guida, Sonia Garino, Francesca Bertolini, Vitina Carriero, Mattia Brusamento, Stefano Pizzimenti, Stefano Levra, Fabio Luigi Massimo Ricciardolo

Characterisation of asthma in patients with fixed obstructive ventilatory disorder
Hadhemi Rejeb (Sousse, Tunisia), SABRINE ELFIDHA, Rania Kaddoussi, Bochra Karaborni, Hanen Smadhi, Dorra Greb, Ines Akrout, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche

Effects of anti-IL5 receptor α in severe asthma: a real-life study
Francesco Ardesi (Milan, 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 Jochmann, 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

Effects of benralizumab therapy in patients with severe eosinophilic asthma: a single-center experience
Borislav Božanić (Niš, Republic of Serbia), Marija Topalović, Ivana Stanković, Tatjana Pejić

Late Breaking Abstract - Novel Index assesses severe asthma care across 29 OECD countries
Patrick Gallen (Copenhagen K, Denmark), Bogi Eliasen, Joe-Max Wakim, José Manuel Jerez Pombo, Emilie Balk Møller

PS-16 in poster area  Session  12:30 - 14:00
Poster session: Novelties in respiratory physiotherapy for health and COVID-19
Disease(s) : Airway diseases, Respiratory critical care, Interstitial lung diseases

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

Chairs : Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Maria Koulopoulou (London, United Kingdom)

Reliability of kinetics-on and kinetic-off oxygen uptake during six-minute step test in male
Audrey Borghi Silva (São Carlos (SP), Brazil), MURILO OLIVEIRA, Shida Marnho, Aldair Araújo, Izadora Dourado, Cássia Goulart, Meliza Roscani, Renata Mendes

Incremental and constant load endurance respiratory muscle tests in healthy adults
Ana Lista Paz (A Coruña, Spain), Margarita Barral Fernández, Cristina Jácome, Linde Holmstock, Loena Van Baelen, Daniel Langer

Virtual Reality Rehabilitation for Improving Exercise Performance and Mental Well-being in Post-Acute Sequelae of COVID-19 Patients
Sebastian Rutkowski (Opole, Poland), Anna Rutkowska, Katarzyna Bogacz, Jan Szczegielniak, 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 Sepulveda-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 Barfa, Patrick Mallia, Radoslav Trojan, Gavin Sandercock

International Physical Activity Questionnaire for people post COVID-19: a validation study
Nicola Sante Diciolla (Madrid, Spain), Alda Marques, Ana Jiménez-Martín, Sara García-De Villa, F. Javier Redondo-Garcia, Maris Torres-Lacomba, Maria 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 Espehaug, Kiri Lovise Njøten, Eirik Solfløndal, Bernt Bøgvald Aarli, Gerd Kvale

Factors affecting participation of long COVID-19 patients in pulmonary rehabilitation programmes
Christiania Lekka (Athens, Greece), Nikolaos Chyndismis, Angelos Vontetsianos, Christina Anagnostopoulou, Stavrina Zaneli, Zoe Sotiropoulou, Georgios Kaltsakas, Andriana Papaioannou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Respiratory, mental and physical aspects in people following COVID-19: infection: a six-month follow-up study
Karina Pozo (Presidente Prudente, Brazil), Isis Grigolotto, Paloma Borges, Matheus Pedroso, Elaine Maldonado Bertacco, Thamirys Serafim, Vinicius Cavalheri, Rafael Mesquita, Ercy Mara Cipulo Ramos

Effectiveness of physical activity counseling in patients with COVID-19
Zeliha Celik (Ankara, Turkey), Nihan Kafa, Nevâin A. Guzel, Nurdan Koutkurb

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, Erika Zavaglia Kabbach, Nathany Souza Schafauer, Débora Mayumi Kawakami, Stephanie Nogueira Linares, Ariane Viana, Vanessa Teixeira Do Amaral, Gustavo Yudi Orikassa De Oliveira, Audrey Borgli-Silva, Emmanuel Gomes Ciolac

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

Evaluation of the learning effect on the six-minute walking distance in patients with long COVID.
Tess Volckaerts (Edegem, Belgium), Kirsten Quadflieg, Chris Burtin, Kevin De Soomer, Ellie Oostvteen, 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 Resqueti

The effect of COVID-19 on exercise capacity in young people
Dilek Çağrı Arslan (ATAŞEHİR, Turkey), Meryem Bektaş Karakuş, Semiramis Özyılmaz

Factors Associated with Exercise Capacity and Functional Balance in Post-COVID-19 Syndrome
Ebru Calik Kutukcu (Ankara, Turkey), Melike Sura Oksuz Capanoglu, Oguz Abdullah Uyaroglu, Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Lale Ozisik, Nursel Calik Basaran, Gulay Sain Guven

PS-2 in poster area  Session  12:30 - 14:00
Poster session: Asthma diagnosis and management in primary care

Disease(s) : Airway diseases

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

Chairs : Maria Mar Martinez Vázquez (Bilbao (Bizkaia), Spain)

Prevalence of asthma and allergies among children in the United Arab Emirates: A crosssectional study
Nasem Abdalla (Dubai, United Arab Emirates), Fatima Al Meleh, Fatime Al Marzouqi, Fatima Al Jassim, Hisham Farouk, Mohamed Alsayed

Clinical factors associated with asthma-related mortality in Alberta, Canada
Subhabrata Moitra (Edmonton, Canada), Andrew Fong, Alim Hirji, Mohit Bhutani

Preventing Summer Holiday Drop in Prescription Uptake for School-Age Children with Asthma: A Pragmatic Cluster Randomized Controlled Trial of a Letter to GP Practices (TRAINs)
Rami Alyami (Sheffield, United Kingdom), Phillip Oliver, Rebecca Simpson, Steven Julious

Outcomes-driven Asthma data application, Emirates Health Services (EHS)- United Arab Emirates
Nasem Abdalla (Dubai, United Arab Emirates)

Asynchronous digital health interventions (aDHI) for reviewing asthma: a mixed-methods systematic review
Nazim Uzzaman (The University of Edinburgh, United Kingdom), Vicky Hammersley, Kirstie Mcclatchey, Jessica Sheringham, Monsur Habib, Hilary Pinnock

Post-hospitalisation asthma management in primary care: a retrospective cohort study
Shamil Haroon (Birmingham (West Midlands), United Kingdom), Dhanusha Punyadasa, Nikita Simms-Williams, Nicola Adderley, Rasiah Thayakara, Adel Mansur, Krishnarajah Nirantharukumar, Prasad Nagakumar

A pulmonary transition clinic: the first Italian experience from Sacco University Hospital
Francesca Mandurino Mirizzi (LECCE, Italy), Lisa Milani, Marina Saad, Giuseppe Fuccia, Luca Perotto, Fiammetta Danzo, Andrea Farolfi, Gian Vincenzo Zuccotti, Pierachille Santus, Dejan Radovanovic

Addition of LAMA to current or former smoking asthmatics
Marios Ioannou (ATHENS, Greece), Stavros Patrinos, Niki Gianniou, Andreas Asimakos, Efrosini Dima, Ioanna Sigala, Paraskevi Katsaounou

Efficiency assessment of 15 nebuliser systems by the respirable drug delivery rate
Ralf Fischer (Starnberg, Germany), Filip Jukic, Rosina Ledermüller

Usability and acceptance of a novel compact spacer in patients with asthma and/or COPD
Amber Eikholt (Zwolle, Netherlands), Titia Klemmeier, Luc Steenhuis, Job Van Boven
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 sinusonal surgery (FESS) in US real-world practice
Asif H. Khan (Chilly-Mazarin Cedex, France), Danielle Isaman, Stella Lee, Anju Peters, Peter Hwang, Sietze Reitsma, Natalia Petruski-Ivleva, Scott Nash, Juby Jacob-Nara

Validity and reliability evidence of the fear of COVID-19 scale in Greek patients with asthma
Mirada Karameri (Athens, Greece), Irini Patsaki, Maria Moutzouri, Georgios Koumantakis, Dimitris Tsimouris, Aikaterini Haniotou, Eirini Grammatopoulou

Late Breaking Abstract - Consensus quality standard for implementing inhaler regimen switch in patients with respiratory disease
Omar S. Usmani (London, United Kingdom), Nicolas Roche, Job Van Boven, Jane Scullion, José Miguel Padhila, Tonya Winders, Andrea Sañic, John Bell, Anna Lawson, Alison Evans, Adam Ben Taieb, Heather Wellam, Janwillem Kocks

Late Breaking Abstract - Mexican Primary Care Physician’s Knowledge about Asthma and COPD: Results of an exploratory survey
Rosaure Esperanza Benitez Pérez (México, Mexico), Ángelica Margarita Portillo-Vasquez, Robert Camargo-Ángeles, Diana Ruiz-Ascencio, Adela Reyes-Herrera, Fatima Leticia Luna-Lopez, Ruy Lopez-Ridaura, Laura Graciela Góchicaa-Rangel

Late Breaking Abstract - 20-Year Secondary Care and Cost Burdens of Asthma and COPD in Singapore
Wenjia Chen (Vancouver, Canada), Laura Huey Mien Lim, Yah Ru Juang

Late Breaking Abstract - Reducing Short Acting Beta Agonist (SABA) prescribing in Antrim/Ballymena GP Federation through SENTINEL Plus
Joanne Caldwell (, United Kingdom), Aislinn Mccarry, Michael Crooks

PS-9 in poster area
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

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 Kouls, Sundeep Salvi, Virendra Singh

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 Caiffa, Raffaele Campisi, Giovanna Elisiana Caragnano, Nunzio Crimi, Maria D’Amato, Maria Pia Foschino Barbato, Angelantonia Maglio, Elena Minenna, Santi Nolasco, Giuseppe Paglino, Francesco Papia, Girolamo Pelaia, Andrea Portacc, Luisa Ricciardi, Nicola Scichilone, Giulia Scosci, Massimo Triggiani, Giuseppe Valenti, Alessandro Vatrella, Claudra Crimi

Asthma diagnosis and symptoms in an allergen immunotherapy trial treating grass pollen induced rhinoconjunctivitis
Bjarke Hviid-Vyll (Aarhus C, Denmark), Johannes Martin Schmid, Hans Jürgen Hoffmann

High-dose aspirin in severe uncontrolled asthma associated with chronic rhinosinusitis with nasal polyps (CRwNP) : the ASTHIMIRINE trial
Mathilde Le Brun (Paris, France), Gilles Devouassoux, Cécile Chernivesse, Gilles Garcia, Philippe Bonniaud, Alain Didier, Frédéric De Blay, Catherine Neukrich, Arnaud Boudin, Pascal Chanez, Guillaume Mahay, Angelica Tiotiu, Amandine Vial-Dupuy, Candice Estellat, Marina Esposito-Farèse, Camille Couffignal, Camille Taillé

Allergen-specific immunotherapy in adults with birch pollen-related asthma: real life evidence
Jiri Nevrlka (Brno, Czech Republic), Katarina Ditetrova, Zlatica Nevrlkova, Lenka Zdrazilova-Dubbska

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, Slajjana Stoshikj, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko
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<th>Title</th>
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<td>Effectiveness and Safety of Anti-IL-5/Rα Biologics in Eosinophilic Granulomatosis with Polyangiitis: A Two-Year Multicenter Observational Study</td>
<td>Santi Nolasco (Catania, Italy), Andrea Portacci, Raffaele Campisi, Enrico Buonamico, Corrado Pelaia, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiata, Giulia Scioscia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papia, Alessandra Tomasello, Nunzio Crimi, Nicola Scichilone, Girolamo Pelaia, Giovanna Elisiana Carignano, Claudia Crimi</td>
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<td>Role of Galectin-10 (Gal-10) in nasal epithelium inflammation and remodeling of children with seasonal allergic rhinitis (SAR)</td>
<td>Rosalba Gagliardo (Palermo (PA), Italy), Olga Maria Manna, Stefania La Grutta, Velia Malizia, Alberto Fucarino, Francesca Rappa, Salvatore Fasola, Mirella Proffen, Fabio Buccieri</td>
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<td>Grading the severity of the local side effects induced by Sublingual Immunotherapy for Allergic Respiratory Disease</td>
<td>ASMA SAIDANE (TUNIS, Tunisia), Selsebel Daboussi, Meriem Chaabane, Marwa Karem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamdi, Zied Moatameri</td>
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<td>Obese asthma with positive type-2 inflammation markers: Cytokine profiles and potential pathogenesis</td>
<td>Masako To (Saitama, Japan), Natsume Honda, Kosuke Haruki, Yasuo To</td>
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<td>Real-world outcomes with mepolizumab in patients with severe asthma and comorbid anxiety/depression: REALITI-A at 2 years</td>
<td>Rekha Chaudhuri (Glasgow (Glasgow), United Kingdom), Mark C. Liu, Diego Bagnasco, Andrea Matucci, Charles Pilette, Robert G. Price, Lydia Demetriou, Peter Howarth</td>
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<td>Experience of the COVID-19 pandemic in asthmatic patients</td>
<td>Safa Belkhir (Tunis, Tunisia), Soumaya Ben Saad, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Trutar</td>
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<td>The Burden of Allergic Bronchopulmonary Aspergillosis in Post-Tuberculosis Lung Disease Patients Presenting to a Tertiary Referral Centre</td>
<td>Animesh Ray (Kolkata (West Bengal), India), Anuj Ajay, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Naveet Wieg</td>
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<td>Doctors Clinical-Decision making Algorithm for Allergy to Anti-Tuberculosis Drugs in Tunisia</td>
<td>ASMA SAIDANE (TUNIS, Tunisia), Selsebel Daboussi, Meriem Chaabane, Marwa Karem, Nouha Boubaker, Chiraz Aichaouia, Samira Mhamdi, Zied Moatameri</td>
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<td>The role of specific and total IgE in COPD</td>
<td>Meropi Karakioulaki (Freiburg im Breisgau, Germany), Caroline-Maria Berkemeier, Leticia Grize, Ingrid Heijnen, Antonis Goulas, Michael Tamm, Daiana Stolz</td>
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<td>Patient burden on refractory and unexplained chronic cough: a qualitative survey in Japan</td>
<td>Takekazu Kubo (Tokyo, Japan), Naoya Ueda, Masakazu Igarashi, Anzu Yakushiji, Shigeru Tokita</td>
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<td>IFNy release from the co-culture of monocyte-derived dendritic cells and T-cells is induced in severe asthmatics in response to bacteria and viruses</td>
<td>Daniel Weidinger (Bochum, Germany), Kaschin Jamal Jameel, Marcel Raczek, Eike Buelthoff, Paul Bürger, Simon Rohde, Faisal Yusuf, Juliane Kronstein, Matthias Tenbusch, Marcus Peters, Jürgen Knobloch</td>
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<td>Anti-staphylococcal enterotoxin A and B immunoglobulin E in COPD</td>
<td>Meropi Karakioulaki (Freiburg im Breisgau, Germany), Caroline-Maria Berkemeier, Ingrid Heijnen, Leticia Grize, Eleni Papakonstantinou, Antonis Goulas, Michael Tamm, Daiana Stolz</td>
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<td>Clinical relevance of Staphylococcus aureus nasal colonization and Staphylococcal enterotoxin-specific IgE sensitization in late-onset asthma</td>
<td>Ha-Kyeong Won (Seoul, Republic of Korea), Youngsang Yoo, Jiwon Lee, Noeul Kang, Ji-Hyang Lee, Jun-Pyo Choi, Tae-Bum Kim, Sang Heon Cho, Woo-Jung Song</td>
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<td>Modelling small airways disease at air-liquid-interface with extended NTHi biofilm co-culture: Implications in COPD</td>
<td>Jake Weeks (Southampton, United Kingdom), C. Mirella Spalluto, M. Vicky Humbert, Tom Wilkinson, Kristoffer Ostridge, Karl Staples</td>
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**PS-10 in poster area Session**  
Session: Subverted inflammation and remodelling in defining the pathogenesis of airways disease  
Disease(s): Airway diseases  
Method(s): Cell and molecular biology Imaging Endoscopy and interventional pulmonology  
Chairs: Susanne Krauss-Etschmann (Borstel, Germany), Patricia Ramos-Ramírez (Glassboro, United States)
Claudin-3 deficiency attenuated ovalbumin-induced airway hyperresponsiveness and eosinophilic airway inflammation in mice
Ayaka Shiota (Japan), Yumiko Ishii, Keiko Kan-O, Tomohiro Ogawa, Norio Yasamamoto, Seiji Shinozaki, Storu Fukuyama, Koichiro Matsumoto, Sachiko Tsukita, Isamu Okamoto

Regulation of eosinophil function in allergic airway inflammation by lysozyme
Yinling Han (Hangzhou, China), Yun Zhao, Songmin Ying, Wen Li, Zhihua Chen, Huahao Shen

Effect of IL-3, IL-5 and GM-CSF on reactive oxygen species production by blood eosinophil subtypes in allergic asthma
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacionyte, Kestutis Malakauskas

Chemokine Receptor CCR1: A New Target for Asthma Treatment
Huahao Shen (Hangzhou, China), Zhehua Shao, Chao Zhang, Xuefei Du, Yan Zhang, Songmin Ying

Biased signaling of chemokine receptor CCR1 in asthma
Zhehua Shao (Hangzhou, China), Yingying Shen, Bingpeng Yao, Songmin Ying, Yan Zhang, Huahao Shen

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

Defining the prostanoid component in mast cell-dependent constriction of isolated human small airways
Jesper Säfholm (Solna, Sweden), Sven-Erik Dahlen, Mikael Adner

Biological and biochemical analysis of T cell derived bronchoconstriction
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Koyama, Akemi Ohtomo-Abe, Yuichiro Kawasaki, Maki Iwata, Yuto Nakamura, Yuto Hamada, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Takayuki Ohtomo, Osamu Kaminuma

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 Mjöberg, Erik Melén

IgE+ PCs arise in lung draining lymph nodes during HDM exposure, acquire distinct phenotype over time and accumulate in the bone marrow after chornic allergic inflammation
Andrea Vecchione (Tarrytown, United States), Navneet Kaur, Li-Hong Ben, Andrew Murphy, Matthew Sleeman, Andre Limander, Seblewongel Asrat, Jamie Orengo

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

Development of OVA induced allergic airway inflammation emerge with gut inflammatory manifestations
Balachandar Selvakumar (Sharjah, United Arab Emirates), Mariam Wed Eladham, Shirin Hafezì, Nareh Sahebsharif-Askari, Ola Salam Bayram, Fatemeh Sahebsharif-Askari, Saleh Ibrahim, Rabih Halwani

The role of Gln27Glu polymorphism of the β2-adrenoreceptor gene in asthma development
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa

Early-life dysbiosis increases airway hyperresponsiveness in mice
Schmaiel Shirdel (Lübeck, Germany), Jaelyn W. Mclees, Adrienne N. Wilburn, Yves Laumonnier, Jan Rupp, Simon Graspeunten, Peter König, Ian F. Lewkowich, Inken Schmudde

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

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 tomography
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 Siddurraj, 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 Siddurraj, 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 Buendía-Roldán

PS-15 in poster area Session 12:30 - 14:00
Poster session: Techniques in respiratory physiology

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

Use of a wearable sleep sensor in an OSA clinic: a service evaluation
Rhodri Curtis (Cardiff, United Kingdom), Joleta Hooper-Lee, Alex Perkins

Development and validation of novel individualized FeNO cut-offs
Rita Amaral (Porto, Portugal), Tiago Jacinto, Andrei Malinovschi, Christen Janson, Bernardo Sousa-Pinto, Anna-Carin Olin, Kjell Torén, Linda Ekerljung, Hannu Kankaanranta, Jörgen Syk, João A. Fonseca, Kjell Alving

Xe-MRI bronchodilator response to assess disease severity in patients with asthma and/or COPD
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Dave Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Oliver Rodgers, James Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardakar, Titti Fihn-Wikander, Rod Hughes, Jim Wild

Effects of adopting GLI reference equations on lung volumes interpretation
Danny Brazzale (Macleod, Australia), Warren Ruelhland, Celia Lanteri, Emma Smith

The FIVC should be used as an acceptable substitute for the FVC when evaluating the FVC in neuromuscular disease, experience in a clinical trial for adult myotonic dystrophy (DM)
Kevin McCarthy (Matthews, United States), Carrie Heusner, Phd, Jose Ramos, Dawn Patterson, Phil Lake, Marc Baumele

Nebuliser characterisation with saline results in inaccurate methacholine PD20 values.
James Dean (Holmes Chapel, United Kingdom), Dave Singh

Respiratory rate and chest wall motion assessment by a new 6-hour recording device
Manuel D’Onofrio (Rome, Italy), Emiliano Musso, Vincenzo Ambrogi

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

Respiratory Sound Classification Of Four Lung Sounds Using Supervised and Self-supervised Learning
Lee Sunju (Daejeon, Republic of Korea), Taeyoung Ha, Yunkyong Hyon, Chaeuk Chung, Yoonjoo Kim, Song-I Lee, Seong-Dae Woo

Role of lung function testing in investigation of persisting breathlessness following acute pulmonary embolus
David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Shakespeare, Sarah Shuker, Jason Burge

Lung diffusion capacity in older and young endurance elite athletes
Biljana Lazovic (Beograd, Republic of Serbia)

Diffusion Capacity: Equipment quality control
Irene Steenbruggen (Zwolle, Netherlands), Peter De Laat

Smallest detectable difference of DLCO within clinical relevance?
Herman Groepenhoff (Lijnden, Netherlands), Annette Fiedler, Juergen Riess, Margriet Kaldenbach

Exploring physiological concordance between spirometry and gas transfer in IPF.
Absari Choudhury (Coventry, United Kingdom), Joanna Shakespeare, David G Parr

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 Baumele, Dawn Patterson

Characterisation of physiological discordance in patients with idiopathic pulmonary fibrosis.
Absari Choudhury (Coventry, United Kingdom), Joanna Shakespeare, David G Parr
Effects of CPAP levels on ventilation in healthy subjects
Lu Wang (China, China), Simin Liu, Yan Chen, D. Andrew Wellman, Joerg Steier, Danny Eckert, R. Doug Mcevoy, Yuanming Luo

Investigation of Respiratory Physiopathology by Determination of Pulmonary Gas Exchange and Ventilation Dynamics in Chronic Lung Diseases
Necmiye Funda Coşkun (Bursa, Turkey), Fadlı Özyener, Aslı Görek Dilektaşlı, Dane Ediger

12:45-13:45 INDUSTRY LUNCHTIME SYMPOSIUM SEE PAGE 1

Blue 1+2 Session 12:45 - 13:45
Joint session: Prevention is better than cure. Vaccination developments in the next century
an ERS / Industry Joint Session
Chairs : Tobias Welte (Hannover, Germany), Katherine O'Brien (Baltimore, United States)

12:45 Development and technology of vaccines
Leif Erik Sander (Berlin, Germany)

13:05 Vaccine safety
Sabine Straus (, Netherlands)

13:25 Joint discussion and Q&A session

Red 1+2 Session 12:45 - 13:45
Joint session: Healthcare based on Value … about time
an ERS / Industry Joint Session
Chairs : Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

12:45 What is value based health care / Applicability in diverse healthcare contexts?
Airoldi Mara (Oxford, United Kingdom)

13:00 Panel on value-based healthcare in COPD - my view
Louise Jane Restrick (London, United Kingdom), Marc L.A. Decramer (Leuven, Belgium), Job F.M. van Boven (Groningen, Netherlands)

13:20 Questions and answers

Silver Session 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)
### Coral 1 Session  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  

**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>
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<tr>
<td>13:45</td>
<td>Biomarkers in lung cancer screening: can they impact clinical management plans?</td>
<td>Ehab Billatos (Boston, United States)</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>
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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>
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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>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
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### Coral 3 Session  13:45 - 15:15

**Hot topics: Incidental findings in low dose computed tomography lung cancer screening programs: 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  

**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)

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<tr>
<td>13:45</td>
<td>Incidental findings: the Radiologist’s experience</td>
<td>Jens Vogel-Claussen (Hannover, Germany)</td>
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<td>14:00</td>
<td>Incidental findings: the AI’s answers</td>
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<td>14:15</td>
<td>Incidental findings: the GP’s perspective</td>
<td>Speaker to be confirmed</td>
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<td>14:30</td>
<td>The pulmonologist’s new challenge: emphysema and ILA out of LDCT</td>
<td>Speaker to be confirmed</td>
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### Coral 4+5 Session 13:45 - 15:15

**Clinical trials session: ALERT 4**

**Chairs:** Florence Schleich (Liège, Belgium)

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<td>14:06 Wrap-up by discussant and discussion</td>
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<td>14:49 Wrap-up by discussant and discussion</td>
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<td>Closing remarks</td>
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### Coral 2 Session 13:45 - 15:15

**State of the art session: Respiratory critical care**

**Noninvasive and invasive mechanical ventilation in acute respiratory diseases**

**Aims:** to provide a state of the art overview of mechanical ventilation in acute respiratory failure, i.e., acute respiratory distress syndrome (ARDS), acute exacerbation of chronic obstructive pulmonary disease and beyond.

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

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

**Tag(s):** Clinical

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

**Chairs:** Dries Testelmans (Leuven, Belgium), Claudia Crimi (Catania (CT), Italy), Ignacio Martin-Loeches (Dublin, Ireland)

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<td>13:45</td>
<td>Molecular mechanisms of ventilator induced lung injury</td>
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<td>Martin Witzenrath (Berlin, Germany)</td>
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<td>14:00</td>
<td>Evidence-based invasive mechanical ventilation in ARDS</td>
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<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>14:15</td>
<td>Extracorporeal membrane oxygenation in ARDS: state of the art</td>
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<td>Christian Karagiannidis (Cologne, Germany)</td>
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<td>14:30</td>
<td>Weaning from mechanical ventilation</td>
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<td>Leo Heunks (Amsterdam, Netherlands)</td>
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### Gold Session 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.

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**Purple Session 13:45 - 15:15**

**Mini symposium: Genetics in paediatric respiratory diseases**

**Aim s:** 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.

**Diseases:** Airway diseases, Interstitial lung disease, Paediatric respiratory diseases

**Methods:** Cell and molecular biology, Epidemiology, General respiratory patient care

**Tag:** 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)

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<td>Basics of genetic diagnostics</td>
<td>Marie Legendre (Paris, France)</td>
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<td>14:00</td>
<td>Surfactant disorders: from neonatal respiratory distress to cancer predisposition</td>
<td>Lawrence Mark Nogee (Baltimore, United States)</td>
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<td>14:15</td>
<td>Models for ciliated airway epithelial cells and personalised medicine</td>
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**INDUSTRY SKILLS LAB WORKSHOP 14:00-14:45**

**Oral presentation: Personalised medicine and deep learning in interstitial lung disease and chronic obstructive pulmonary disease imaging**

**Diseases:** Airway diseases, Interstitial lung disease

**Methods:** Imaging, Pulmonary function testing

**Chairs:** Ádám Domonkos Tárnoki (Budapest, Hungary), Chair to be confirmed
Late Breaking Abstract - Artificial intelligence-based decision support for HRCT stratification in fibrotic lung disease: an international study of 116 observers from 37 countries.


Alveolar collapse as a prognostic marker in patients with IPF: A CT-based assessment using an extended parametric response mapping technique
Sarah Sharm (Hannover, Germany), Jonathan Ehmg, Cornelia Schaeffer-Prokop, Anton Schreuder, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Oh Shin

In-vivo endobronchial-PS-OCT for fibrosis quantification in ILD
Tatiana Soldati (Amsterdam, Netherlands), Margherita Vaselli, Kirsten Mookj - Kalverda, Erik Thunnissen, Michael Tanck, Onno Mets, Inge Van Den Berk, Jouke Annema, Peter Bonta, Johannes De Boer

Prognostic modeling in idiopathic pulmonary fibrosis using deep learning
Neha Anegondi (South San Francisco, United States), Yixuan Zou, Xuefeng Hou, Mohammadreza Negahdar, Dorothy Cheung, Paula Belloni, Alex De Crespigny, Alexandre Fernandez Coimbra

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 Calandrelli, Mario Silva, Wendy Cooper, Ian Glaspole, Nicole Goh, Christopher Grange, Peter Hopkins, Yuben Moodley, Navaratnam Vidya, Paul Reynolds, Athol Wells, Tamera Corte

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 Calandrelli, Mario Silva, Ian Glaspole, Nicole Goh, Wendy Cooper, Christopher Grange, Peter Hopkins, Yuben Moodley, Navaratnam Vidya, Paul Reynolds, Athol Wells, Tamera Corte, Simon Walsh

Comparison of parenchymal 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

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 Bonta

Towards precision medicine in COPD: Bioradiomic SPECT-CT quantification of active lung inflammation
Benjamin Welham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Ostridge, Matthew Guy, Clint Zvavamwe, Francis Sundram, Tom Wilkinson

Impaired xenon gas transfer observed two years after COVID-19 hospitalisation in patients with signs of interstitial lung disease
Laura Saunders (Hope Valley, United Kingdom), Guilhem Collier, Ho-Fung Chan, Paul Hughes, Laurie Smith, Helen Marshall, Martin Brook, Alberto Biancardi, Madhwsaha Rao, Graham Norquay, Neil Stewart, James Grist, Kher Li Ng, Amanda Goodwin, Jonathan Brooke, Galina Pavlovskaya, Iain Stewart, Andrew Swift, Smitha Rajaram, Phil Molyneux, Kevin Johnson, Joseph Jacob, Fergus Gleeson, Ian Half, Thomas Meersmann, Ling-Pei Ho, A A Roger Thompson, Gisli Jenkins, Jim Wild

Discussion and Q&A

Brown 3  Session  14:15 - 15:30
Oral presentation: Sleep apnoea phenotyping: clinical features, pathophysiology, and biomarkers
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
Chairs : Lisa Jane Brighton (London, United Kingdom), Andreas Von Leupoldt (Leuven, Belgium)

Neural gating of respiratory sensations during exercise-induced dyspnea
Lucas Vanden Bossche (Leuven, Belgium), Michele R. Schaeffer, Mingqi Zhao, Dante Martini, Wim Janssens, Thierry Troosters, Daniel Langer, Andreas Von Leupoldt

Mechanism of dyspnea relief from menthol inhalation in healthy adults during loaded breathing trials
Michele Schaeffer (Leuven, Belgium), Lucas Vanden Bossche, Valentina Jelinčić, Kristin Verbeke, Daniel Langer, Andreas Von Leupoldt
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<th>Title</th>
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<td>Greater awareness of errors in patients with COPD</td>
<td>Ysys Denutte (Leuven, Belgium), Alicia Gonsalves, Thomas Reijnders, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt</td>
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<td>Characteristics of people with COPD associated with emotions of shame and guilt</td>
<td>Sara Lundell (Umea, Sweden), Sara Kalucza, Anna-Britt Coe, Senada Hajdarevic, Anders Blomberg</td>
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<td>Improving performance in Chronic Obstructive Pulmonary Disease (COPD) through expectations: a Randomized Crossover Study</td>
<td>Eleonora Volpato (Milano (MI), Italy), Paolo Banfi, Elena Compalati, Francesco Pagnini</td>
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<td>Physical inactivity and personality change in people with chronic respiratory diseases</td>
<td>Sébastien Kuss (Lodève, France), Nelly Héraud, Brice Canada</td>
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<td>Psychosocial factors associated with short-term CPAP usage</td>
<td>Leanne Kaye (San Diego, United States), Vy Vuong, Adam Benjafield, Priyanshu Gupta, Meredith Barrett</td>
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<td>Pilot Online Psychological Group Intervention for ILD patients</td>
<td>Victoria Singh (London, United Kingdom), Melissa Creese, Laura Fabbri, Elizabeth Renzoni</td>
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<td>Patient-reported outcomes encourage communication about psychosocial issues in patients with COPD.</td>
<td>Louise Maxoll Gronhaug (Vejle, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke, Jannie Frolund</td>
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**Discussion and Q&A**

**Blue 1+2 Session 14:15 - 15:30**

**Oral presentation: Pneumonia**

**Method(s):** Imaging Epidemiology General respiratory patient care Public health Pulmonary rehabilitation Endoscopy and interventional pulmonology

**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**
  Alberto Papi (Cona, Ferrara, Italy), Robert G. Feldman, Raffaele Antonelli-Incalzi, Katie Steenackers, Dong-Gun Lee, Michael G. Ison, Laurence Fissette, Marie-Pierre David, Céline Maréchal, Marie Van Der Wielen, Lusine Kostanyan, Veronica Hulstrøm

- **CheXED artificial intelligence to detect radiographic pneumonia in urgent care clinic patients.**
  Nathan Dean (Murray, United States), James Hart, Kathryn Kuttler, Cara Van Uden, Curtis Langlotz, Chad Carman, Thea Sakata

- **Individualized treatment rule (ITR) for early steroid use in hospitalized patients with community acquired pneumonia (CAP)**
  Yewande Odeyemi (Washington, United States), Allison Lemahieu, Ogjen Gajic, Schulte Phillip

- **Molecular diagnostic resistance patterns in the BALF of hospitalised patients with pneumonia**
  Andrei Darie (Basel, Switzerland), Nina Khanna, Kathleen Jahn, Mirjam Osthoff, Desiree Schumann, Hans Hirsch, Martin Brutsche, Letícia Grize, Michael Tamm, Daiana Stolz

- **Diagnostic behaviours among patients with community acquired pneumonia in the age of CoVid-19**
  Phoebe Hazenberg (Liverpool, United Kingdom), Thomas Fitzmaurice, Ryan Robinson, Kev Bailey, Fred Fyles

- **Epidemiology of community-acquired pneumonia (CAP) in Europe during the COVID-19 pandemic –preliminary results of PNEUMO study Europe**

- **Not just a cold: chest CT features of rhinovirus lower respiratory tract infection in adults and comparison with other viruses**
  Lawrence A. Marinari (Bryn Mawr, United States), Michelle L. Hershman, Madeline A. Danny, Wallace T. Miller, Jr.

- **The clinical efficacy of cefoperazone-sulbactam versus piperacillin-tazobactam in the treatment of severe community-acquired pneumonia**
  Hsu-Yuan Chen (Taichung City, Taiwan), Chih-Cheng Lai, Wei-Chih Chen, Li-Kuo Kuo, Yao-Tung Wang, Pin-Kuei Fu, Shih-Chi Ku, Wen-Feng Fang, Chin-Ming Chen, Chih-Yen Tu, Wen-Chien Cheng, Chia-Hung Chen
Quality of life following CAP hospitalization: preliminary results from the PNEUMO study Europe
Lisa Hessels (Alkmaar, Netherlands), Sebastiaan Hullegie, Rianne Jahja, Jesús Rodríguez-Baño, Isabel Morales Barroso, Francesco Blasi, Bruno François, Rachel Frogé, Manuel Recio Rufián, Angelo Corsico, Brigida Quindos, Kelly D Johnson, Thomas Weiss, Madelyn Ruggieri, Marc Bonten, Cristina Prat-Aymierich

Epidemiological and clinical characteristics of patients hospitalized with human metapneumovirus (hMPV) infection in Israel, 2015-2021
shlomit Keler (Kfar maas, Israel), Menucha Jurkowicz, Ilana S. Fratty, Hilda Sherbany, Nathan Keller, Eugene Leibovitz, Gilad Sherman, Or Kriger, Ella Mendelson, Michal Mandelboim, Michal Stein

Discussion and Q&A

Red 1 + 2

Session 14:15 - 15:30

Oral presentation: Pulmonary embolism: acute and long-term management (1)

Disease(s) : Pulmonary vascular diseases

Method(s) : General respiratory patient care, Cell and molecular biology, Epidemiology, Pulmonary rehabilitation, Imaging

Chairs : Laurent Bertoletti (Saint Etienne Cedex, France), Lucilla Piccari (Barcelona, Spain)

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 Kjaer Poulsen, Stefan Posth, Mikkel Brbrand, Christian B. Laursen

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

Evolution of cardiac biomarkers and short-term prognosis in pulmonary embolism
Laurent Bertoletti (Saint Etienne Cedex, France), Maxime Castan, Luc Janisset, Valentine Mismetti, Géraldine Poenou, Raphaël Lachand, Sandrine Accassat, Thibault Leconte, Elie Ayoub, Loïc Villeneuve, Cyril Noto-Campanella, Alain Viallon

Outpatient management of cancer-related pulmonary embolism: a post-hoc analysis of the HOME-PE trial

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

MicroRNAs as predictors of chronic thromboembolic pulmonary hypertension
Remedios Otero Candela (Sevilla, Spain), Julia Otto Martinez, Olga Tura Ceide, David Hervás Marín, Elena Arellano Orden, Isabel Blanco, Victor Peinado, Pilar Medina Badenes, Joan Albert Barberà, Verónica Sánchez Lopez

HDAC6 regulates endothelial-to-mesenchymal transition in venous thrombosis
Catherine Lemarie (BREST, France), Marion Pirlard, Virginie Gourdon-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 Holmo Johannessen, 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.
Victor Garcia Garcia (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
Amber 3+4 Session 14:20 - 17:10
Skills workshop: SW15 Thoracic ultrasound basic principles
Aims: To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.
Disease(s): Thoracic oncology, Interstitial lung diseases
Tag(s): Clinical
Chairs: Rahul Bhatnagar (Bristol, United Kingdom)

14:20 Introduction
Rahul Bhatnagar (Bristol, United Kingdom)

14:50 Normal Thoracic Cavity
Giovanni Volpicelli (Torino (TO), Italy), Morten Bendixen (Skejby, Denmark)

14:50 Pleural effusion and/or pleural thickening
Valentina Pinelli (Sarzana, Italy), Konstantina Kontogianni (Heidelberg, Germany)

14:50 Case studies
Poppy Denniston (London, United Kingdom)

14:50 Guided interventions
Søren Helbo Skaarup (Aarhus C, Denmark), Helen Mcdill (Bristol (Avon), United Kingdom)

Amber 1+2 Session 14:30 - 16:50
Skills workshop: SW12 Clinical-radiological-pathological correlation in pulmonary hypertension
Aims: to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.
Disease(s): Pulmonary vascular diseases
Method(s): Imaging
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist
Chairs: Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)

14:30 Introduction

14:30 Radiological assessment of pulmonary hypertension
Deepa Gopalan (LONDON, United Kingdom)

14:30 Pathological assessment of pulmonary hypertension
Peter Dorfmuller (Le Plessis-Robinson, France)

14:30 Echocardiography in pulmonary hypertension
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)

14:30 Clinical assessment of pulmonary hypertension
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)

Coral 3 Session 15:30 - 17:00
Symposium: Treatment of early stage, technically resectable mesothelioma
Aims: to review different international guidelines on treatment of mesothelioma; to present inconsistencies in the current set of guidelines; to help delegates understand the use of these guidelines in optimal patient care.
Chairs: Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

15:30 What is the early stage mesothelioma?
Speaker to be confirmed

15:45 Radical surgery should be offered to patients with early stage, technically resectable mesothelioma
Nuria Novoa Valentin (Majadahonda, Spain)
16:00 Radical surgery should not be offered to patients with early stage, technically resectable mesothelioma
Najib M. Rahman (ABINGDON, United Kingdom)

16:15 A look into the future: active trials and research strategies for early-stage mesothelioma
Kevin Blyth (Glasgow (Glasgow), United Kingdom)

16:30 Discussion and Q&A

Coral 1 Session 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

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

INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

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

Guidelines session: Palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease / The use of "as-needed" inhaled corticosteroids/formoterol in mild asthma

1) European Respiratory Society clinical practice guideline on palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease and 2) European Respiratory Society guideline on inhaled corticosteroids/formoterol on demand

Aims: to discuss two new published guidelines, namely, the European Respiratory Society (ERS) guideline on inhaled corticosteroids (ICS)/formoterol on demand and the ERS clinical practice guideline on palliative care for people with chronic obstructive pulmonary disease (COPD) or interstitial lung disease (ILD), to provide physicians, healthcare professionals, patients and other stakeholders information on the use of rescue ICS/formoterol for the treatment of adult and adolescent patients with mild asthma based on a systematic review of the literature and application of the Grading of Recommendations, Assessment, Development and Evaluation approach; to explain what palliative care entails for people with COPD or ILD and their informal caregivers and how to identify people with COPD or ILD who may benefit from palliative care; to describe a model to integrate palliative care in disease-modifying care for people with COPD or ILD; to discuss the clinical implications of both guidelines and barriers to their application in clinical practice.

Disease(s): Airway diseases Paediatric respiratory diseases

Method(s): General respiratory patient care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Physician in Pulmonary Training

Chairs: Florence Schleich (Liège, Belgium)

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
Speaker to be confirmed

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

16:20 Which is better, as-needed ICS/formoterol alone or regular low-dose ICS maintenance treatment?
Richard Beasley (Wellington, New Zealand)

16:35 Which is better, as-needed ICS/formoterol alone or as-needed SABA plus maintenance?
Ioana Agache (Brasov (Brasov), Romania)

16:50 Discussion and Q&A

Silver Session 15:30 - 17:00

Journal session: The best of the European Respiratory Journal


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 Annesi 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)

16:30 Discussion and Q&A

Gold Session 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)
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)
Late Breaking Abstract - Differences in autophagy marker levels at birth in preterm vs. term infants
Noëmi Künstle (Basel, Switzerland), Olga Gorlanova, Andrea Marten, Loretta Müller, Pawan Sharma, Martin Röösl, Pablo Sinues, David Schürmann, Céline Rüttimann, Carla Rebeca Da Silva Sena, Uri Nahum, Jakob Usemann, Ruth Steinberg, Sophie Yamine, 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 Rüttimann, Danielle Viennneu, Kees De Hoogh, David Schürmann, Carla Rebeca Da Silva Sena, Martin Röösl, 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 Laenger, Tobias Welte, Nikolaus Schwerk, Jakob Reichmann, Tim Salldt, 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

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 Civellici, 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), Pinelopi Anagnostopoulou, Florian Kronig, Elena Borisova, Dominik Schüttny, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schleiputz, Marco Stampanoni, Johannes C. Schüttny

Maternal obesity increases reflex bronchoconstriction in adult offspring in a diverse outbred mouse model
Zhenying Nie (Portland, United States), Kayla Williams, Allison Fryer, David Jacoby, Alina Maloyan
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 imagining predict clinical outcome in ARDS patients
Mehdi Shekarnabi (Villeurbanne, France), Florian Sigaud, Maxime Gailliet, Alicia Guiffien, Emmanuel Roux, Touria Ahouari, Edouardo Davila, Loïc Boussel, Gilbert Ferretti, Hodane Yonis, Mehdi Mezidi, William Danjou, Alwin Bazzani, François Dheft, Laure Folliot, 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, 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, Vincenta 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 (Monza, Italy), Bianca Cattaneo, 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 Intorto, Paolo Scarpazza

Chest CT scan Pulmonary sequelae in ICU COVID-19 survivors
Jihene Ayachi (Kairouan, Tunisia), Haifa Sfar, Safa Ben Mansour, Yosri Ben Ali, Dhouha Ben Braiek, Hend Zorgati, Oussama Saadaoui, Rahma Ben Jazia, Anis Maatallah, Abderrahmen Daadoucha

Discussion and Q&A

Brown 3  Session  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
Chairs : 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 Sena 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 Shahbakhtii, Ralph Lopez, Jordina Mah, James P Allinson, Gavin 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, Cásia Da Luz Goulart, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nathany Souza Schafauser, Rodrigo Polaquin Simões, Meliza 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 (Montréal (QC), Canada), 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 Sciurba, Matthew Strand, Edwin Silverman, Sandeep Bodduluri

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

Discussion and Q&A

Yellow 1+2+3 Session 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
Chairs: Anne M. van der Does (Leiden, Netherlands)

Late Breaking Abstract - Age and vitamin D influence airway epithelial cells response to SARS-CoV-2 infection
Francesca Sposito (Liverpool, United Kingdom), Shaun Pennington, Christopher David, Jack Duggan, Sarah Northey, Giancarlo Biagini, Neill Liptrott, Amandine Charras, Paul McNamara, Christian Hedrich

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

LSC - 2023 - Long-lasting alterations in lung anti-tumor immunity by viral infections
Lucia Rodriguez Rodriguez (Liege, Belgium), Alison Gillard, Celine Maquet, Remy Sandor, Justine Javaux, Didier Cataldo, Laurent Gillet, Benedicte Machiels

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, Sangeetka Ramu, Mandy Menzel, Morten Hvidfeldt, Ditte K. Klein, Ager 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 Tusn, 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), Samwel Cerps, Laurits Frøssing, Morten Hvidfeldt, Ditte Klein, Mandy Menzel, Manali Mukherjee, Parameswaran Nair, Juan Jose Nieto-Fontarigo, Sangeetha 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

Expression of an aldehyde-sensitive olfactory receptor in airway epithelial cells after rhinovirus challenge in asthma
Christy Prawiro (London, United Kingdom), Ranch Clemeno, David J Jackson, Hugo Farne, Sebastian L Johnston, Salman Siddiqui

Discussion and Q&A

Red 1+2 Session 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.
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Scientist (basic, translational), Paediatrician, Medical Student, General practitioner
Chair: Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

15:45

15:55

16:05

16:15

PS-20 in poster area

Session 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

Chair: Chair to be confirmed

Navigated transbrachial 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

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

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, Shota Ito, Kosuke Tsuji, Hirofumi Takahashi, Tetsuaki Shoji, Toshiaki Shichinohase, Satoshi Konda

Finding effective combination of advanced bronchoscopic techniques in diagnosing peripheral lung nodules
Bora Lee (Seoul, Republic of Korea), Hee Sang Hwang, Se Jin Jang, Sang Young Oh, Mi Young Kim, Chang-Min Choi, Young Ju Jung, Wonjun Ji

The beginnings of Radial Probe Endobronchial Ultrasound without a Guide-Sheath and fluoroscopy.
Yanira Chuquimia Mendoza (Leon, Spain), Javier Juan Garcia, Carmen Lopez Garay, Elena Martin Gallego, Cristina Menendez Sanchez, Pablo Franco Suarez, Yolanda Ramos Alonso, Almudena Regidor Delgado, Patricia Giganto Alfrageme, Milagros Blanco Fernandez, Lorena Rodriguez Casado, Luis Carazo Fernandez

Comparing the Diagnostic Yield of using Rapid On-Site Cytology Evaluation (ROSE) and without using ROSE in RP-EBUS Guided Sheath Transbrachial Lung Biopsy with Bronchial Brushing in Peripheral Pulmonary Lesions.
Kulchamai Silathapanasakul (Bangkok, Thailand), Thitiwat Srirapatsar, Virissorn Wongsrichanalai

Electromagnetic navigation bronchoscopy for peripheral pulmonary lesions: An observational study. First experience.
Ana Reyses Pardessus Otero (Barcelona, Spain), Ines Podzamczer Valls, Albert Rafecas Codern, Ana Parera Ruiz, Marta Navarro Colom, Virginia Pajares Ruiz, Alfons Torrego Fernandez

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

Nebulized Dexmedetomidine Prior to Flexible Bronchoscopy in Reducing Procedural Cough Episodes: A Randomized, Clinical Trial.
Lokesh Kumar Lalwani (Alwar, India), Pawan Kumar Singh, Dhruva Chaudhry

A randomised controlled trial of narrow-band imaging vs. white light bronchoscopy-guided endobronchial biopsy in suspected sarcoidosis (NABS)
Sahajal Dhoooria (Chandigarh, India), Kritarth Rathi, Ritesh Agarwal, Nalini Gupta, Amanjit Bal, Ashutosh Nath Aggarwal

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

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
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, Andréanne Côté, Michel Laviolette

Interobserver agreement in the diagnosis of lower airway malacia by dynamic flexible bronchoscopy in children
Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Merve Nur Tekin, Beste Özeşen, Birce Sunman, Secahattin Bayav, Hüdendiro Yoshida, Ryuji Nagamatsu, Tetsuhide Takeyama, Toshiaki Shichinohe, Satoshi Konno

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 Nakanura, 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 Tsuzuku, Atsunori Masuda, Anri Murakami, Akimasa Tsuchida, Yasutomo Baba, Yutaru 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

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

Dysfunctional breathing induces vocal cord dysfunction following COVID-19 infection
Laurence Ruane (Clayton (VIC), Australia), Joo Koh, Malcolm Baxter, Paul Leong, Garun Hamilton, Philip Bardin

Is there correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in COVID-19 survivors?
Khouloub Kchaou (Sfax, Tunisia), Soumaya Khaldi, Balsam Barkous, Chaïma Brika, Sirine Jamli, Saloua Ben Khamisa Jameleddine

Does diffusion ability of lungs return to normal after COVID-19?
Natalia Habshyde (Dnipro, Ukraine), Mariia Krykhtina, Liudmyla Konopkina, Tetyana Pesevea, Larysa Botvinikova

Comparison of severity of Covid infection in staff before and after vaccination.
Jayakalshini T.Kutty (Mumbai (Maharashtra), India), Bhumi Madhav, Prakash Cherath, Narendra Patil, Prashant Khemani, Vibhasree A V, Gokul Bhatre

Increased impairment of cardiopulmonary exercise by bilateral diaphragm dysfunction as compared to unilateral diaphragm dysfunction.
Patick Jak (Diemen, Netherlands), Bart Boerrigter

Predictive value of CPET in identifying patients with chronic thromboembolic pulmonary hypertension (CTEPH).
David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Shakespeare, Jason Burge, Sarah Shuker

Determination of the anaerobic threshold
Esther de Geus (Den Haag, Netherlands), Mart Van Der Plas
Comparative retrospective data research from normal values of VO2max in CPET with patient data in Meander Medisch Centrum, The Netherlands.
Justine Van den Hengel (Leusden, Netherlands), Anne Van As - Janssen

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
David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Shakespeare, Sarah Shuker, Jason Burge

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 Gobets, 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

Utility of neurophysiological studies in the diagnosis of diaphragmatic paralysis as a cause of dyspnea. Experience in a Spanish hospital.
Luis Borderias Clau (Huesca, Spain), Ignacio Garrapiz, Maria Jesús Pablo, Isabel Benavente, Jorge Hurtado, Javier Garrapiz, Joaquin Cegoñino, Sandra García, Elena Briz

Cardiopulmonary exercise testing (CPET) in post COVID-19 exercise intolerance evaluation
Rita Enriquez (Montijo, Portugal), 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 Lehnend, Dina Von Werden

PS-3 in poster area
Session 16:00 - 17:30
Poster session: What's new in stem cell therapies and mechanisms underlying acute lung injury-
acute respiratory distress syndrome

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Respiratory intensive care, Physiology, Imaging, Pulmonary function testing
Chairs: Anna Krasnodembskaya (Belfast (Belfast), United Kingdom), Chair to be confirmed

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), María Narciso, Anna Ulldemolins, Alicia Jurado, Daniel Navajas, Ramon Farré, Nuria Gavara

Lung Extracellular Matrix Hydrogels-Derived Vesicles Contribute to Epithelial Lung Repair
Isaac Almendros (Barcelona, Spain), Anna Ulldemolins, Alicia Jurado, Carolina Herranz-Diez, Nuria Gavara, Jorge Otero, Ramon Farré
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 Mc Carthy, Declan Byrne, Senthil Alagesan, Juan Fandiño, Abigail Warren, Daniel O'Toole, John Laffey

Lipofibroblast derived-extracellular vesicles attenuate smoke-induced lung injury
Shota Fujimoto (Tokyo, Japan), Yu Fujita, Naokki Watanabe, Sachi Matsubayashi, Hironori Kawamoto, Daisuke Takekoshi, Saburo Ito, Shunsuke Minagawa, Hiromichi Harai, Jun Araya, Kazuyoshi Kuwano

MSC Extracellular Vesicles ameliorate pre-mature epithelial senescence in ARDS through mitochondrial transfer
Johnatas Silva (Belfast (Northern Ireland), United Kingdom), Danny F McAuley, Cecilia O'Kane, Anna D Krasnodembskaya

Benefits of bronchial epithelial repair by iPSC in COPD
Marion Nadaud (Montpellier, France), Carine Bourdais, Aurélie Fort-Petit, John De Vos, Kheira Hireche, Isabelle Vachier, Engi Ahmed, Arnaud Bourdin

Adipose mesenchymal stem cells from COPD patients are capable of restoring elastase-induced emphysema in a murine experimental model
Aina Martín Medina (Palma, Spain), Carlos Río, Andreas K. Jahn, Alba Martina Calvo Bota, Ma Teresa De Francisco Casado, Pere Joan Pont Antonia, Orlando Gigirey Castro, Angel Francisco Carvajal, Cristina Villena Portella, Cristina Gómez Bellver, Amanda Iglesias, Javier Calvo Benito, Antonio Guay Puig, Luis A. Ortiz, Ernest Sala-Llinás

The sodium-coupled neutral amino transporter SNAT2 regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS
Shota Fujimoto (Tokyo, Japan), Yu Fujita, Naokki Watanabe, Sachi Matsubayashi, Hironori Kawamoto, Daisuke Takekoshi, Saburo Ito, Shunsuke Minagawa, Hiromichi Harai, Jun Araya, Kazuyoshi Kuwano

MSC Extracellular Vesicles ameliorate pre-mature epithelial senescence in ARDS through mitochondrial transfer
Johnatas Silva (Belfast (Northern Ireland), United Kingdom), Danny F McAuley, Cecilia O'Kane, Anna D Krasnodembskaya

Dynamic doublecortin-like kinase 1 (DCLK1) expression on alveolar epithelial type II cells (AT2) in acute respiratory distress syndrome (ARDS) mouse model
Xiao-Yue Chen (New Taipei City, Taiwan), Ching Kao, Hsiao-Chi Chuang

The sodium-coupled neutral amino transporter SNAT2 regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS
Julianna Falivene (Berlin, Germany), Sarah Weidenfel, Wolfgang M. Kuebler

Persistence of lung dysfunction in post-acute COVID-19: a microRNA approach
María C García-Hidalgo (Lleida, Spain), Jessica González, Manel Perez-Pons, Iván D Benítez, Marta Molinero, Thalia Belmonte, Carlos Rodríguez-Muñoz, Gerard Torres, Anna Moncusí-Mateo, Clara Gort-Paniello, Jesús Caballero, Carme Barberà, Adrián Céccato, Laia Fernández-Barat, Ricard Ferrer, Dario García-Gasulla, José Ángel Lorente-Balanza, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferrán Barbé, David De Gonzalo-Calvo

Plasma NET markers kinetics in COVID-19 patients receiving immunomodulatory treatments: a cohort study
Renaud Prével (Bordeaux, France), Geoffrey Garcia, Antoine Dewitte, Sylvie Labrouche-Colomer, Christine Mouton, Céline Delassassaeigne, Fanny Ménard, Camille Vinclair, Erwan Begot, Laurent Petit, Cédric Carrié, Didier Brönnimann, Denis Malvy, Alexandre Duviignaud, Chloé James

Lung lipid profile upon COVID-19-related Acute Respiratory Distress Syndrome
Paula Losada-Oliva (Madrid, Spain), Chiara Auñútilo, David Sanchez-Ortiz, Álvaro Mingote, Raquel Castejón Díaz, Gonzalo Hernandez, Gema Díaz Nuevo, Mercedes Echaide, Bárbara Olmeda Lozano, Clara Salas, Juan Antonio Vargas, Jesús Pérez-Gil

Late Breaking Abstract - Macrophage metabolic reprogramming mediated by carnitine palmitoyltransferase 1A in acute lung injury in an IL10-dependent manner
Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li

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
Helene Wallem Breisnes (Herlev, Denmark), Signe Holm Nielsen, Cecilie Bager, Diana Julie Leeming, Tony Cahn, Ciara O’Shea, Jack Siderfin, Kai Hove, Mark Layton, Anne-Christine Bay-Jensen, Jannie Marie Bülow Sand, Sumanta Mukherjee
Lung ECM composition, its influence factors and transcriptomics in the lungs of severe COVID-19.
Natalia de Souza Xavier Costa (São Paulo, Brazil), Gabriel Ribeiro Júnior, Ellen Toledo Do Nascimento, Jôse Mara De Brito, Jhonatas Sirino Monteiro, João Carlos Setubal, João Renato Rebelho Pinho, Roberta Verciano Pereira, Renata Aparecida De Almeida Monteiro, Amaro Nunes Duarte Neto, Paulo Hilário Nascimento Saldiva, Luiz Fernando Ferraz Da Silva, Marisa Dollnikoff, Thais Mauad

Long-term follow-up of neutrophil activation after severe-to-critical SARS-CoV-2 infection: a longitudinal study
Simon Valentin (Nancy, France), Véronique Regnault, Jean-Louis Guéant, Thery Abel, Patrick Lacolley, Frederic Schlemmer, Ari Chaouat, Francois Chabot, Rosa-Maria Gueant-Rodriguez

Histopathology of the lungs in the acute and post-acute period of severe COVID-19
Oleh Yakovenko (Lutsk, Ukraine), Sergej Griff, Stephanie Hoffmann, Alexandr Khanin, Tetiana Yakovenko

PS-1 in poster area

Poster session: Precision rehabilitation

Session  16:00 - 17:30

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

Chairs: Chair to be confirmed

Development of an exercise adherence prediction model; a prospective cohort study
Ellen Ricke (Hillegom, Netherlands), Eric Bakker

Toward a personalized non-invasive ventilation support during exercise training in chronic obstructive pulmonary disease
Paulo Müller (Campo Grande (MS), Brazil), Tiago Augusto, Rodrigo Koch, Gisele Barbosa, Fernanda Dias, Erlandson Saraiva, Wolfram Windisch

Virtual pulmonary rehabilitation: Does one size fit all?
Oliver Smith (London, United Kingdom), Jennifer Kilduff, Eilinore Davoren, Edoardo Castaneda, Daniel Bullock, Elisabetta Renzoni

The effectiveness of rehabilitation programs depending on the COPD risk group
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovsky, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Galyna Korzh, Olga Molodovets, Nadiya Korzh, Uliana Shevchuk-Budz

Effect of adding motivational interventions to exercise training on health outcomes in patients with chronic respiratory diseases: a systematic review with meta-analysis
Adriana C. Lunardi (São Paulo (SP), Brazil), Cibele Marques Da Silva, Caroline Censo, Andrey Wirgues, Thiago Pinto, Eloise Arruda, Rafaela Xavier, Patricia Freitas, Celso Carvalho

The efficacy of remote pulmonary rehabilitation in the management of interstitial lung disease
Michael McGettrick (Glasgow (Glasgow), United Kingdom), Kirsty Murray, David Anderson

Prognostic implications of health-related quality of life in transthyretin amyloid cardiomyopathy
Christina Kronberger (Vienna, Austria), Michael Poledniczec, Robin Willixhofer, Nikita Ermolaev, Bernhard Cherouny, Theresa-Marie Dachs, René Rettl, Christina Binder-Rodriguez, Luciana Camuz-Ligios, Bernhard Gregshammer, Andreas Kammerlander, Johannes Kastner, Jutta Bergler-Klein, Franz Duca, Roza Badr Eslam

Six-minute Stepper Test to Set Pulmonary Rehabilitation Intensity in Patients with interstitial lung diseases
Clémence Roussel (Amiens, France), Tristan Bonnevie, Guelle Tercé, Catherine Viacroze, Francis Edouard Gravier, Jean Sebastien Previnaire, David Debeaumont, Antoine Cuvelier, Jean Marie Grosbois, Elise Artaud Macari

Short- and longer-term effects of a digital behavioural modification intervention on physical activity outcomes in lung transplant recipients
Emily Hume (Newcastle Upon Tyne, United Kingdom), Hazel Muse, Kirstie Wallace, Mick Wilkinson, Karen Heslop Marshall, Arun Nair, Stephen Clark, Ioannis Vogiatzis

Predictors of success of pulmonary rehabilitation
Tomaz Hafner (Kranj, Slovenia), Anja Grosselj, Mitja Košnik, Julij Šelb, Anja Simonič, Tatjana Kosten, Tinkara Pirc Marolt, Peter Korošec

Experiences of individuals with Idiopathic Pulmonary Fibrosis (IPF) participating in Home-Based Pulmonary Rehabilitation (HBPR) in India: A Qualitative study
Pulmonary rehabilitation is effective on exercise tolerance and mobility in frail ILD patients.
Didier Saey (Québec (QC), Canada), Pierre-François Tremblay-Labrecque, Geneviève Dion

Interventions to promote conventional pulmonary rehabilitation uptake post-acute exacerbation of chronic obstructive pulmonary disease: A systematic review
Bedor Alkhathlan (Leicester, United Kingdom), Munyra Alhotye, Neil Greening, Theresa Harvey-Dunstan, Sally Singh

The Effects of Neurophysiological Facilitation Techniques on Respiration in Stroke Patients
Çiçek Gunday (İstanbul, Turkey), Ali Enes Yasar, Gül Deniz Yılmaz Yelvar, Yasemin Buran Cirak, Nurgül Durustkan Elbasi, Habibe Serap İnal

Is Pulmonary Rehabilitation equitable across different populations?
Enya Daynes (Leicester, United Kingdom), Sarah Ward, Jakub Zakloutal, Linzy Houchen-Wolloff, Nikki Gardiner, Sally Singh

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

Pulmonary rehabilitation in Systemic sclerosis.
Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Alberto Baiguera, 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 Rabinovich

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

PS-16 in poster area
Poster session: Pneumonia
Session 16:00 - 17:30

Impact of pneumococcal vaccination in treating elderly patients with hospitalized community-acquired pneumonia
Moonjin Kim (Seoul, Republic of Korea), Seohyun Kim, Tai Joon An, Jeong Uk Lim, Chan Kwon Park, Hyoung Kyu Yoon

Rapid PCR (BIOFIRE)- A paradigm shift in management of pneumonia
Beauty Biswas (West Bengal, India), Amrita Bhattacharyya, Raja Dhar, Somnath Bhattacharya, Saikat Pal, Deep Narayan Mukherjee

Early appropriate antimicrobial treatment guided by BioFire FilmArray may attenuate systemic inflammatory response in VA-LTRI patients
Andrea Palombo Flores (BARCELONA, Spain), Nona Rovira-Ribalta, Alba Soler, Leticia Bueno Freire, Anna Motos, Rubén López-Aladdid, Enric Barbeta, Joan Canseco, Miriam Villanueva, Nil Vázquez, Antoni Torres*, Laia Fernández-Barat

Poor prognostic factors in acute community-acquired pneumonia
Aaladdine Radhouani (Ariana, Tunisia), Chrine Moussa, Houda Rouis, Mehdi Abdenadher, Faten Mhiri, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Sonia Maalej

Value of soluble urokinase plasminogen activator receptor (sUPAR) for predicting severity of community-acquired pneumonia (CAP)
Lisa Hessels (Alkmaar, Netherlands), Ruud Duijkers, Marianne Schoorl, Lotte Terpstra, Willemien Thijs, Wim Boersma
Development of a new prognostic score to predict pneumonia outcomes using artificial intelligence-based chest radiograph results
Eun Hye Lee (Seoul, Republic of Korea), Ji Soo Choi, Hyun Joo Shin, Kyunghwa Han, Eun Kyung Kim

Exposure to antimicrobials and microbiological yields from bronchoscopy in immunocompromised patients, a single-centre two-year experience.
Albert Teng (Singapore, Singapore), Deshawn Tan, Kundan Reddy Saripalli, Timothy Toh, Youxin Puan, Brian Chua, Isaac Fong, Yi Hern Tan

COMMUNITY-ACQUIRED PNEUMONIA: RISK AND PROGNOSIS
Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko

Clinical utility of routine bronchoscopic secretion sampling for microbiological and multiplex PCR during bronchoscopy
Christopher Milacek (Wien, 05. Bezirk, Margareten, Austria), Marco Idzko, Daniela Gompelmann

Results of microbiome analyses on bronchoalveolar lavage (BAL) sample
Katarina Pontoppidan (Southampton, United Kingdom), Christian Niels Meyer, Xiaohui C Nielsen, Jens J Christensen, Henrik Vedel Nielsen, Kurt Fuursted, Christian S Jensen

BACTEREMIA PREDICTION IN PNEUMOCOCCAL PNEUMONIA: A COMPARATIVE STUDY OF 2 SCORES
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Silvia Perez-Fernandez, Pedro Pablo España Yandiola, Catia Cilloniz, Ainhoa Gomez Bonilla, Edurne Echeverria Guerrero, Beatriz Gonzalez Quero, Ane Uranga Echeverria, Antoni Torres Martí, Rafael Zalacain Jorge

Impact of absence of an early circulating neutrophil count expansion on outcome of patients with community-acquired pneumococcal pneumonia
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Silvia Perez-Fernandez, Sonia Castro Quintas, Amaia Urrutia Gajate, Edurne Echeverria Guerrero, Beatriz Gomez Crespo, Ainhoa Gomez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

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, Eleftheros Markakis, Damianos Menegas, Cristina Méndez, Claudia Schwarz, Maria Lahuerta, Elizabeth Begier, Bradford D. Geisser, Haralampos Milionis, Vasilios Tsimihodimos, Konstantinos Kostikas, Athanasios Konstantinidis, Gerasimos Baxevanos, Charalampos Triantafyllidis, Theodora Argiriadou, Chryssavi Terrovitou, Danilis Danilidis, Paraskevi Katsaounou, Michael Toubmis, 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 Hegelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Christian Ritz, Daniel Faugholt-Jepsen, Birgitte Lindegaard

Phenotypes of Hospitalized Patients with Pneumonia
Daniel Knox (Murray, United States), Jason Carr, Simon Brewer, Samuel Brown, Nathan Dean, Ethan Peltan

Altered sphingolipid metabolism in community acquired pneumonia
Kurt Gerhard Stollberg (Jena, Germany), Ha-Yeun Chung, Dirk K. Wissenbach, Marc-Thilo Fitzger, Frank T. Peters, Martin Witzenrath, 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, Maria Angeles Escobar Valero, Sara Barakat Fernández, Maria Beatrix Cartón Sánchez, Andrea Crespo Sedano, Esther Alonso Sastre, Enrique Alonso Mallo, Alba Daniela Garcia Molina, Maria Irene Alaejos Pascua, Ana Maria Andras Porras, Francisco Javier Pagán Buzo, Ana Villacorta Soto, Maria Gloria Galindo Laso

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

PS-5 in poster area Session 16:00 - 17:30
Poster session: Advancements in asthma management: holistic and personalised insights
 Disease(s) : Airway diseases
 Method(s) : Cell and molecular biology  General respiratory patient care  Physiology  Epidemiology  Pulmonary function testing  Public health
 Chairs : Job F.M. van Boven (Groningen, Netherlands), Zuzana Diamant (Lund, Sweden)

### 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 Mckeever, 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 Tammola, Iida 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

### 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 Pfefeer

### ORBE II study: Is rapid response to benralizumab associated with positive long term clinical outcomes?
Pilar Ausin Herrero (Barcelona, Spain), Eugenia Navarrete, Jose Luis Velasco, Álvaro Martinez, Carmen Cañete, Fernando Sánchez Toril, Mónica Santin, Marta Gonzalez, Javier Nuevo, Elisa Luzón, Alicia Padillo

### Reducing short-acting beta-agonist (SABA) use in asthma: findings from SENTINEL Plus early adopter sites
Michael Crooks (East Riding of Yorkshire, United Kingdom), Dominic Sykes, Helena Cummings, Alyn Morice, Samantha Brooks, Arthur Jackson, Yang Xu
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, Champing Xia, Scott Nash, Nami Pandit-Abid, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz, Megan Hardin, Xavier Soler

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

Albuterol–budesonide asthma rescue inhaler: patterns of as-needed use
Alberto Papi (Cona, Ferrara, Italy), Bradley Chippis, Frank Albers, Lynn Dunside, Ileen Gilbert, Tim Harrison, Frank Trudo, Mark Weinberg, Christy Cappelletti

PS-6 in poster area
Session 16:00 - 17:30
Poster session: "Inflammometry" in asthma and chronic obstructive pulmonary disease

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 Tamn, Daiana Stolz

Assessment of eosinophilic airway inflammation using formalin-fixed, paraffin-embedded sputum plugs
Zil Patel (Ottawa, Canada), Nadia Suray Tan, Alex Huyinh, Nicola Calma, Katherine Radford, Snehal Somalwar, Chynna Huang, Melanie Kjarsgaard, Anmar Ayoub, Parameswaran Nair, Manali Mukherjee

Small airway obstruction according to emphysema severity in human lungs

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

CORRELATION BETWEEN SYSTEMIC INFLAMMATION AND CARDIOVASCULAR RISK IN COPD PATIENTS. DEVELOPMENT OF AN INFLAMMATORY SCORE
Ana Muñoz Montiel (Malaga, Spain), Pedro Ruiz Esteberan, Natalia Garcia Florido, Esperanza Doña Díaz, Adolfo Domenech Del Rio, Casilda Oliveira Fuster

The pH of the human airway: A novel technique to measure distal airway pH.
Olivia Giddings (Cleveland, United States), Homer Twigg, Nadjayda Marozkina, Kristie Ross, Laura Smith, Benjamin Gaston, Michael Davis

Assessing airway inflammation in chronic lung disease – Neutrophil protease activity and sputum macrorheology as potential inflammatory biomarkers.
Hannah Nussstein (Berlin, Germany), Laura Schapp, Mirjam Völler, Urbantat Ruth Maria, Tattersall-Wong Janette, Röhmel Jobst, Mari Pollmann

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

Air pollution and influence of deleterious levels of atmospheric nitrogen dioxide in the development of asthma
India Premjithlal Bhaskaran (London, United Kingdom), Arya Premjithlal Bhaskaran, Anusuya Premjithlal Bhaskarn, Premjithlal Bhaskaran

Abnormalities of sputum rheological characteristics in patients with chronic cough and bronchial asthma
Kazuhiro Ito (London, United Kingdom), Haruhiko Ogawa, Yuka Uchida

The role of vitamin D in COPD.
Gulchekhra Tashmetova (Tashskent, Uzbekistan), Irina Liverko
Sputum rheology is associated with asthma control
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Taqdees Qureshi, Furkan Zurel, Leanne Holnes, Lynn Elsey, David Thornton, Stephen Fowler, Thomas Pantin

The prevalence of and risk factors for non-smoking chronic obstructive pulmonary disease in China: A systematic review and meta-analysis
Yue Zhang (Beijing, China), Xiaoyan Gai, Hongling Chu, Jingge Qu, Liang Li, Yongchang Sun

Serum vitamin D binding protein in Japanese patients with COPD, asthma and ACO.
Kenya Koyama (Koshigaya, Japan), Akemi Koyama, Masahiro Irokawa, Ryo Kitajima, Hisanori Hirokawa, Kentaro Nakano, Hiroyoshi Watanabe, Mayuko Ohashi, Tomoshige Wakayama, Shingo Tokita, Ryosuke Souma, Hideyuki Satoh, Yasutsugu Fukushima

EFFECT OF FOOD INTAKE ON EXHALED VOLATILE ORGANIC COMPOUNDS ANALYZED BY AN E-NOSE.
Silvano Dragonieri (Bari (BA), Italy), Marcin Di Marco, Madiha Ahroud, Vitaliano Nicola Quaranta, Andrea Portacci, Enrico Buonamico, Fabrizio Diaferia, Marco Antonio Patruno, Giovanni Elisiana Carpagnano

Characterization of eosinophilic inflammation in a Portuguese bronchiectasis cohort
Mariana Maia e Silva (Lisboa, Portugal), Margarida Pereira, Carlos Lopes

Exhaled nitric oxide in patients with severe alpha-1-antitrypsin deficiency
Edurne Echevarría Guerrero (Barakaldo, Spain), Laura Cortezón Garces, Jone Solorzano Egurbide, Imanol González Muñoz, Elena Garay Llorente, Patricia Sobradillo Ecenarro, Maria Del Mar Mayor Álvarez, Borja Santos Zorroza, Eva Tabernero Huguet

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

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 Shankmugasundaram, Anjana Talwar, Kumar Nischay Jaiswal

Late Breaking Abstract - A point of care (POC) exhaled breath to diagnose asthma
Victor Higgs (London, United Kingdom), Hanya Ahmed, Jona Angelica Flavier

PS-17 in poster area

Poster session: Unravelling diagnostic and treatment modalities in lung cancer

**Disease(s):** Thoracic oncology, Airway diseases

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Imaging, Surgery, Public health

**Chairs:** Angshu Bhowmik (Barnet (Hertfordshire), United Kingdom), Andrew Creamer (Bristol (Avon), United Kingdom)

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 Bortolotto, 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 Dió desert Vicente, Blanca De Vega Sanchez, Álvaro Pérez Rodríguez, Soraya Fernandez Gay, Esperanza Guzman Anisado, Norman Andres Villamagua Arias

Sarcoid-like granulomatous inflammation in the setting of underlying malignancy: endobronchial ultrasound registry-based report and a call for caution
Grgur Salaj (Zagreb, Croatia), Robert Gecevic, Tajana Stos 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
Laetitia Amar (Montreal, Canada), Ping Shi Zhu
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

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

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

Pulmonary inflammatory myofibroblastic (IMT) of 5 cases: CT and FDG-PET findings and review of the literature
Joosung Sun (Suwon, Republic of Korea)

The Effects of Geographical Variation on Radical Treatment Rates in Lung Cancer
Richard Cooper (Malpas, United Kingdom), Buddug Eckley, Jack Barrington, Daniel Menzies

Resection rates in early-stage lung cancer in an Australian regional centre
Manoj Thogesan (Newcastle, Australia), Krishobhan Baskaran, Christian Stolz, Vineeth George

Pancoast tumor: surgical management
Selma Madhi (Ariana, Tunisia), Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Ines Moussa, Adel Margheli

Mortality and recurrence following surgically treated primary lung malignancy
Yvette Farrugia (Zurrieq, Malta), Darlene Mercieca, Peter Fsadni

Multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgical resections; a tertiary centre experience
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Ioannis Kyritsis, Nikolaos Anastasiou

Prognostic factors for patients operated on for a IIIAN2 non-small cell lung cancer: A retrospective study
AHMED BAKHTI (Nabeul, Tunisia), Mahdi Abdennadher, Hazem Zribi, Amina Abdlekbir, Sonia Ouerghi, Mouna Milka, Sarra Zairi, Adel Marghli

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, Sookje Chung, Jeong-Hee Choi, In Gyu Hyun, Junghyun Kim

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

Clinical study of AERO stent placement for malignant airway stenosis in Okayama Medical Center
Kenichiro Kudo (Okayama, Japan), Ken Sato

Diagnostic and therapeutic approach of rare thoracic tumors
Hanene Smadhi (Manouba, Tunisia), Sabrine Elfidha, Hadhemi Rejeb, Hela Kamoun, Bochra Karaborni, Chaima Djenayah, Ines Akrout, Leila Fekih, Mohamed Lamine Megdiche

PS-18 in poster area Session 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
Chairs : Esther Jeritza Nossent (Amsterdam, Netherlands)

Virtual pulmonary rehabilitation for people with idiopathic pulmonary fibrosis: a mixed methods feasibility study
Orlagh O'Shea (Belfast (Belfast), United Kingdom), Grainne Murphy, Luke Forde, Katherine O'Reilly

Physical activity measurement with questionnaire in idiopathic pulmonary fibrosis
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

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

Interstitial lung disease increases the risk of severe COVID-19 infection; a retrospective registry-based epidemiological study of the entire adult Swedish population
Emil Ekborn (Uppsala, Sweden), Christer Jansson, Andrei Malinovschi, Össur Emilsson, Magnus Sköld, Lisa Carlsson, Fredrik Nyberg

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

FVC and DLCO evolution after initiation of antifibrotics as prognostic factors in IPF
Marie Vermaut (Elsene, Belgium), Tinne Goos, Nathalie Veyt, Stefan Gogaert, Marianne Carlon, Nico De Cremer, Laurens J De Sadelleer, Ellen De Langhe, Adriana Dubbeldam, Bart Vanaudenaerde, Erik K Verbeke, Johny Verschakelen, Birgit Weynand, Jonas Yserbyt, Patrick Verschueren, Joseph Jacob, Wim A Wuyts

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 Crosa, Paolo Carlo Ghiio, Carlo Albera, Fabio Luigi Massimo Ricciardolo

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

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

The prognostic value of blood eosinophil-monocyte count and Neutrophils/Lymphocyte ratio (NLR) in patients with IPF, CPFE and COPDA retrospective multicenter cohort study
Yen-Fu Chen (Yun-Lin County, Taiwan), Pei-Fen Wu, Hsin-Yi Wang, Chung-Yu Chen, You-Yi Chen, Chia-Ling Chang, Jerry Shu-Hung Kuo, Kuan-Ming Su, Ning Chien, Ping-Hung Kuo, Hao-Chien Wang, Chong-Jen Yu

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

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

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

Importance of continuous TGFβ presence for fibrosis induction in different in vitro assays
Matea Cedilak (Zagreb, Croatia), Daniela Belamaric, Doris Filipovic, Mihailo Banjanac, Martina Bosnar, Vesna Erakovic Haber

Survival in interstitial lung diseases – 11 years observation of 2497 patients.
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros

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

Surgical pulmonary biopsy in ILD: analysis of complications and survival
Sonia Pascual Garcia (Leganés, Spain), Cristina Matesanz López, Beatriz De Olaiz Navarro, Jose Antonio Aramburu González, Eva Aguilar Rivilla, Beatriz Raboso Moreno, Adriana Rodriguez Perojo, Araceli Abad Fernández, Maria Teresa Rio Ramírez

Multidisciplinary management of interstitial lung disease in NHS Scotland
Emily Turner (Glasgow, United Kingdom), Linda Sparks, Phil Korsah, Tom Fardon
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

Impact of Bronchial Asthma on COVID-19 Sequelae
(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 Fidelì, Chiara Cappiello, Luca Visconti, Claudia Meschi, Laura Tavanti, Roberta Pianci, Guido Marchi, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabrielelli, Alessandro Celi, Laura Carrozzi

Associations between socioeconomic parameters and outcomes related to hospitalization with COVID-19.
Søren Sperling (Aarhus N, Denmark), Andreas Fløe, Steffen Leth, Charlotte Hyldegaard, Tina Gissel, Ayfer Topcu, Lars Kristensen, Lene Sønderkov Dahl, Søren Jensen-Fangel, Johannes Martin Schmid, Elisabeth Bendstrup

Latitude impact on COVID-19 mortality rate and case incidence in Peru, the Andean country with the highest accumulated mortality rate worldwide
Valeria A. Castillo Uribe, Zoë L. Contreras Leon, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huaynuay, 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, Valeria A. Castillo Uribe, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huaynuay, Fernando R. Chu Rivera

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, Najije Guan, Krishna Gokhale, Puja Myles, Tim Williams, Tom Marshall, Melanie Calvert, Karen Matthews, Krishnarajah Niranatharukumar, 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, Pradeesh Sivapalan, Josefin Eklöf, Susanne Dam Nielsen, Zitta Barrella Harboe, Tor Biering-Sørensen, Theis Itenov, Jens-Ulrik Staehr 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, Asa 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 Niranatharukumar, Janet Lord, David C. Wraith

The effects Covid-19 had on the children of health care professionals
Ege Havlucu (Manisa, Turkey), Atalay Özkul, Deniz Kızılirmak
IMPACT OF THE COVID19 PANDEMIC ON SURVIVAL OF PATIENTS WITH HOME MECHANICAL VENTILATION (HMV)
Alfredo Marín Muñiz (Castelldefels, Spain), Ana Córdoba Izquierdo, Mikel Sarasate Azkona, Eva Farrero Muñoz, Zara Vidales Sepúlveda, Lluis 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 Erdnuess, Thorsten Reineke, Beate Frerich, Wolfgang Kamin

Post-pandemic seasonal dynamics in the frequency of hospitalized exacerbations and triggers in COPD
Hnin Wint Aung (Market Harborough, United Kingdom), Aye Aung, Hamish Mcauley, Omer Elneima, Cara Flynn, Tracy Thornton, Helen Evans, Christopher Brightling, Neil Greening

The role of Low-Dose CT scan in the early diagnosis of malignant neoplasms of different localization.
Anna Kovchun (Sumy, Ukraine), Victor Kovchun, Vladyslava Kachkovska, Liudmyla Prystupa

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 Č Steiner, Rachael A Evans, David C Currow

PS-14 in poster area
Session 16:00 - 17:30
Poster session: Clinical features and advances in the management of tuberculosis

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 Ostrovskykyy, Iryna Kostitska, Olha Molodovets, Olha Melnuk-Sheremeta, Oleksandr Varunkiv, Iryna Savelikhina, Alla Zuban, Nadiia Korzh, Uliana Shevchuk-Budz

Association of systemic inflammatory markers with anti-tuberculous drug-induced liver injury
quanxian Liu (Chengdu, China), Jianqing He

Clinical and prognostic characterisation of Mycobacterium avium infection - a retrospective analysis
Diogo Miguel Monteiro Canhoto (Coimbra, Portugal), Ferreira António Jorge

Rasmussen Aneurysm: a rare fearful complication of pulmonary tuberculosis
mohamed karim darragi (Ariana, Tunisia), Sarra Maazaou, Chirine Moussa, Amany Touil, Sonia Hbibe, Soumaya Ben Saad, Hajer Racil, Fatma Trattar, Sonia Maalej, Nawel Chauouch

Atypical presentations and challenges in the upper respiratory tract tuberculosis
Najla Bahloul (Sfax, Tunisia), Kallel Souha, kharrat rania, Hammami Rim, Selim Noura, Chaabouni Mohamed Amine, Kammoun Sami, Charfeddine Ilhem

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 Hojo, Haruhito 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, Heinke Kunst

**Endobronchial tuberculosis: a rare presentation**
Salma Msika (Casablanca, Morocco), Wiam El Khattabi, Meriem Zadi, Hajar Arfaoui, Hasna Jabri, Hicham Afi

**The effect of Covid-19 pandemic on childhood tuberculosis: A Retrospective sectional study**
Özge Ülgen (Istanbul, Turkey), Gülbay Bilgin, Zeynep Reyhan Onay, Sinem Can Okşay, Deniz Mavi, Yasemin Mocan Çağlar, Begüm 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), Mousa Hussein, Merlin Thomas, Mustafa Al-Tikrity, Tasleem Raza, Esraa Alkhateeb, Aisha Aladab, Wani Ismahel, Prem Chandra

**Lung function impairment after completing tuberculosis therapy: preliminary findings of StatinTB/ExtendTB**
Sandra Muksa (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, Uttar Pradesh, India), Surya Kant, Nagendra Kumar, Jyoti Bajpai, Richa Tyagi, R A S Kushwaha, Ajay Kumar Verma, Rajiv Garg, Chanchal Rana, Sapna Dixit

**Utility of CT scan in pulmonary tuberculosis disease**
mohamed karim darraghi (Ariana, Tunisia), Sarra Maazaoui, Yassine Foudhaili, Olfa Ben Moussa, Amany Touil, Sonia Habibebch, Hajar Racil, Nawah Chouch

**Ocular Tuberculosis: a challenging condition**
Joana Marques Diogo (Sesimbra, Portugal), Carlos Figueiredo, Helena Pires, Júlia Silva, Carlos Monteverde, Dalila Ferreira, Joana Carvalho, Susana Carreira, Teresa Mourato, Lúis 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

**Late Breaking Abstract - Drug-resistant tuberculosis: pilot whole genome sequencing of clinical isolates M.tuberculosis from TB patients in Kazakhstan**
Ulan Kozhamkulov (Astana, Kazakhstan), Asset Danyiarov, Ainur Akhmetova, Saule Rakhimova, Zhannur Abilova, Ainur Akilzhanova

**Poster session: Asthma, atopy, and respiratory outcomes from infancy to young adulthood**

**Disease(s):** Airway diseases

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

**Chairs:** Franca Rusconi (Pisa, Italy), Eva Sophie Lunde Pedersen (Bern, Switzerland)

**Endotyping and risk-assessing childhood asthma using national registries**
Kjell Eirik Julius Håkansson (Københavnn 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. Borghof, Laura N. Borko, Catherine Birken, Sharm D. Dell, Magdalena Janus, Jonathal L. Maguire, Theo J. Moraez, Patricia C. Parkin, Padma Subbarao, Anne Van Dam, Beverly Gutman, Emilie Terebessy, Kimball Zhang, Jiuqin 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

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 (Nicossia, Cyprus), Emmanouil Galanakis, Paraskevi Kinni, Eleni Michaelidou, Antonis Michanikou, Helen Demetriou, Maria G. Kakkoura, Pinelopi Anagnostopoulou, Konstantinos Pitsios, Stafania I. Papaitheodorou, Petros Koutrakis, Panayiotis K. Yiallouros

Panayiotis Kouis (Nicossia, Cyprus), Marios Lemonaris, Elena Xenophonots, 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 Williams, Anne-Christianne Kentgens, Julian Jakob, Florian Wyler, Urs Frey, Philipp Latzin, Sophie Yammine

Diagnosis in children with prolonged or recurrent cough
Maria Christina Mallet (Rose-Hill, Mauritius), Annina Elmiger, Tayisiya Krasnova, Carmen De Jong, Barbara Kern, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Jakob Ueemann, 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

Comorbidity of allergic diseases and type 1 diabetes – using genetically informative methods
Awad I. Sme (Stockholm, Sweden), Tong G6ng, Ralf Kuja-Hakola, Lars Svedahl, Paul Lichtenstein, Bronwyn K. Brew, Catamara 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, Liat 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: Epidemiology of tobacco and electronic nicotine delivery systems use

**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

**Chairs:** Florin Dumitru Mihaltan (Bucuresti, Romania)

**Vaping: A new trend of consumption among young people.**
Sara Sánchez Martin (Malaga, Spain), María 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

**A comprehensive list of flavorings used in cigarettes**
Efthimios Zervas (Patra, Greece), Manos Konstantinidis, Niki Matsouki, Chara Tsipa, Zoe Gareiou

**MOTIVATION FOR USING HEAT-NOT-BURN TOBACCO DEVICES AND E-CIGARETTES IN UKRAINE**
Vitalina Harkusha (Vinnytsya, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy

**TOBACCO PRODUCT USE AMONG YOUTH IN UKRAINE**
Vitalina Harkusha (Vinnytsya, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy 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

**Knowledge, practices, and attitudes of general practitioners in the southern region of Morocco towards smoking**
Aboubekr Imzil (Agadir, Morocco), Oussama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youness Essaid, Nada Boutbagha, Soufia Farhat, Houssame Enmaciri, Hanane Ikrou, Fatiha Bounoua, Khadija Ait Nasser, Houda Moubachir, Hind Serhane

**Tunisian physicians' knowledge of passive smoking**
Sarra Ben Sass (aetania, Tunisia), Ines Moussa, Hana Mrassi, Mariem Friha, Sara Trimech, Imen Sahnoun, Leila Douiik El Gharbi

**Increasing knowledge and awareness of respiratory diseases through an educational programme for nursing students in rural Ghana.**
Yazid Imoru (Accra, Ghana), Johannes Martin Schmid

**Gender differences in smoking-attributable mortality (SAM) by region in Portugal**
Sofia Belo Ravara (Covilhã, Portugal), Julia Rey-Brandariz, Esther López-Vizcaíno, Maria Isolina Santiago-Pérez, Alberto Ruano-Ravino, Cristina Candal-Pedreira, Leonor Lema-Varela, Nerea Mourino, Pedro Aguiar, 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 Dagli (Istanbul, Turkey), Murat Tuğberk Bakar, Buğra Arslan, Melike Duymaz, Ibrahim Serhat Karakus, 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?
Hana Blibech (Ariana, Tunisia), Mohamed Aymen Jebali, Houda Snene, Nozha Ben Salah, Sameh Belhaj, Nadia Mehiri, Bechir Louzir

Smoking Cessation Practices in a Level 3 Irish Hospital
Niamh Boyle (Celbridge, Ireland), Caitlyn Paclibar, Eric Sheeran Purcell, Mary Menemee, Colm Quigley

PS-19 in poster area  Session  16:00 - 17:30
Poster session: Chronic thromboembolic pulmonary hypertension and other aspects in the pulmonary vasculature

Disease(s) : Pulmonary vascular diseases  Airway diseases
Method(s) : Pulmonary function testing  Cell and molecular biology  Physiology  Surgery  General respiratory patient care
Respiratory intensive care  Epidemiology  Endoscopy and interventional pulmonology  Transplantation  Imaging

Chairs : Frédéric Lador (Genève 14, Switzerland), Mitja Jevnikar (Paris, France)

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 Lizzeth Arita Guevara, Ricardo alberto Reyes jimenez, Anna Herranz blasco, Mireia Admettlo papiol, Anna Rodo Pin, Juanjo Rodriguez sevilla, Flavio Zuccarino, Judith Villar Garcia, Luis Molina Ferragut, Eva Balcells Vilarnau, Diego Rodriguez Chiaramida

Long-term safety and survival time under subcutaneous treprostinil treatment in patients with severe chronic thromboembolic pulmonary hypertension (CTEPH)
Pavel Jansa (Jirny, Czech Republic), Roela Sadushi-Kolici, Grzegorz Kopec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Steringer-Mascherbauer, Barbara Salobir, Walter Klepetko, Jaroslav Lindner, Irene M. Lang

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, Sehzaz Olgun Yildizeli, Bedrettin Yildizeli

Left ventricular diastolic dysfunction attenuates outcomes in CTEPH
Katherine Bunclark (Cambridge (Cambridgeshire), United Kingdom), Andrew Fletcher, Alessandro Ruggiero, John Cannon, Gerry Coghlan, James Lordan, Luke Howard, David Jenkins, Martin Johnson, David Kielty, Choo Ng, Nicholas Screaton, Karen Shéares, Dolores Taboada, Steven Tsui, John Wort, Joanna Pepke-Zaba, Rocco F. Rinaldo, 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 Fujii, Kenichi Yanaka, Norigak Emoto, Kenichi Hirata

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 Bouly, Karen Bitton, Anne Roche, Olivier Sitbon, 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 Romerol, 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, Gérardine 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, Pet Symersky, Toon Winkelman, Esther Nossent, Jurjan Aman, Harm Jan Bogaard, Anton Vonk Noordegraaf, Josien Van Es

Pattern of lung function impairment in patients suffer from chronic thromboembolic pulmonary hypertension
Aleksandar Bokan (Loewenstein, Germany), Anna Volk, Axel Tobias Kempa, Ana Bokan, Stephan Beckmann, Gerd Staehler

The impact of the Covid-19 pandemic on the lives of patients with pulmonary hypertension
Iain Armstrong (, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith

COVID-19 and pulmonary vasculature; the impact of pulmonary artery dilatation in clinical outcome
Angelos Zouglos (Halandin, Greece), Kyriaki Tavamaraki, Styliani Arapostathi, Konstantinos Tsiakos, Asimina Nikolakopoulou, Athanasios Andrianopoulos, Alexandros Patsouras, Cristina Potari, Dimitrios Arvanitis, Loukas Thanos, Angeliki Rapti

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The impact of the Covid-19 pandemic on the lives of patients with pulmonary hypertension
Iain Armstrong (, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith

Renal outcomes after lung and combined heart-lung transplantation in pulmonary hypertension
Laura Hardy (Leuven, Belgium), Alexander D’Haenens, Rozenn Quarek, Gitte Aerts, Catharina Belge, Guido Claessen, Dirk Kuypers, Greet De Vlieger, Tom Verbeden, Laurens Ceulemans, Dirk Van Raemdonck, Geert Verleden, Robin Vos, Arne Neyrinck, Marion Deleu-Toye, Laurent Godinas

The effect of mechanical stimulation on cardiac fibroblasts in pulmonary arterial hypertension
Fjodor Bekedam (Amsterdam, Netherlands), Marissa Smit, Anton Vonk Noordegraaf, Harm Jan Bogaard, Marie Jose Goumans, Frances De Man, Aida Lluei-Vallelpeper

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

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 Flözenecker, Thomas Pfeier, Horst Olschewski

PS-4 in poster area  Session  16:00 - 17:30
Poster session: Evaluation of sleep and sleep-disordered breathing in different population and patient groups

SLEEP AND BREATHING DISORDERS
AIRWAY DISEASES

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

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

Sleep efficiency and sleep onset latency in a First Nation community in Saskatchewan, Canada
Chandima Karunanyake (Saskatoon, Canada), James A. Dosman, Mark Fenton, Jeremy Seesequaquis, Marie Neubaur, Warren Seesequaquis, Delano Mike, Kathleen McMullin, Malcolm King, Sylvia Abonyi, Vivian R. Ramsden, Donna C. Rennie, Shelley Kiyeruk, Niels Koehncke, Robert Skomro, Brooke Russell, Punam Pahwa

Sleep quality of physicians at a University Hospital - cross-sectional observational study
Eduardo Garcia (Porto Alegre (RS), Brazil), Fernanda Altmann Oliveira, Aline Tiemi Hirosé Ventura, Carlos Javier Mendoza Bravo

Sleep efficiency and sleep onset latency in a First Nation community in Saskatchewan, Canada
Chandima Karunanyake (Saskatoon, Canada), James A. Dosman, Mark Fenton, Jeremy Seesequaquis, Marie Neubaur, Warren Seesequaquis, Delano Mike, Kathleen McMullin, Malcolm King, Sylvia Abonyi, Vivian R. Ramsden, Donna C. Rennie, Shelley Kiyeruk, Niels Koehncke, Robert Skomro, Brooke Russell, Punam Pahwa

Sleep quality of physicians at a University Hospital - cross-sectional observational study
Eduardo Garcia (Porto Alegre (RS), Brazil), Fernanda Altmann Oliveira, Aline Tiemi Hirosé Ventura, Carlos Javier Mendoza Bravo
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

Sleep habits and sleep quality among Tunisians students
Rim Khemakhem (Sfax, Tunisia), Israa Wadhane, Sabrine Fidha, Rahma Gargouri, Sameh Msaad, Nadia Moussa, Najla Bahloul, Samy Kammoun

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

Association of Vitamin B12 levels with Sleep Quality, Insomnia and Sleepiness in Adult Primary Health Care Users in Greece
Izolde Bouloukaki (Heraklion (Crete), Greece), Maria Lampou, Konstantina Maria Raouzaïou, Eirini Lambraki, Ioanna Tsiligiani, Sophia Schiza

Risk of cancer and cancer mortality in obstructive sleep apnoea
Jenny Theorell-Haglöw (Uppsala, Sweden), Xingwu Zhou, Gary Wittert, Robert Adams, Sarah Appleton, Amy Reynolds, Mirjam Ljunggren, Nathaniel Marshall

Obstructive Sleep Apnea Hypopnea Syndrome & Glaucoma
Feryel Chaouki (Batna, Algeria), Mohamed Fateh Roughi

Sleep related breathing disorders in Chiari malformation type 1 patients
Laura Cortezon (Bilbao, Spain), Edurne Echevarria, Teresa Bretos, Yolanda Rey, Maria Luz Zaldibar, Estefania Perez, Cristina Valverde, Cristina Mosquera, Beztiz Gonzalez, Amaia Urrutia, Sonia Castro, Valentin Cabriada

Eat, breathe, sleep with Osteogenesis Imperfecta
Antonella LoMauro (Milano (MI), Italy), Vittorio Landoni, Paolo Fraschini, Franco Molteni, Andrea Aliverti, Simona Bertoli, Ramona De Amicis

Sickle cell disease phenotypes and obstructive sleep apnea: are they related?
Suhail Alsaleh (Riyadh, Saudi Arabia), Norah Alshehri, Sara Alsiddiqi, Mohammed Rayis, Safa Eltahir, Mohammed Alzaid, Wadhia Alotaibi

The prevalence of sleep apnoea before colorectal cancer surgery
Karl Franklin (Umeå, Sweden), Martin Claesson, Eva Lindberg, Carin Sahlin, Anders Blomberg, Markku Haapamäki, Malin Sund, Johan Svensson, Malin Jonsson Fagerlund

Considering obstructive sleep apnea syndrome as a differential diagnosis in Long COVID patients
Katie McEwan (Leeds, United Kingdom), Rashad Salman, Rachel Tarrant, Stephen Halpin, Manoj Sivan

Comparison of Objective and Subjective Sleep Assessment in a Post-Covid Population as Assessed by WatchPAT.
Christina D. Campbell (Dublin 6, Ireland), Imran Sulaiman

Kleine–Levin and post covid 19 syndromes, a possible relationship?
Analúcia Maranhão (Rio De Janeiro (RJ), Brazil), Cinthya Saad

Risk factors for OSA in a population of Italian telecommunication workers
Giuseppe Verlato (Verona (VR), Italy), Giuseppe Insalaco, Pierpaolo Marchetti, Roberta Ventenini, Luciano Romeo

Simplified questionnaire for detecting patients with severe OSA
Cuizhen Huang (GuangzhouChina, China), Yuan Feng, Lu Wang, Xiuxuan Xiang, Joerg Steier, Yuanning Luo

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
Ines Podzamczer Valls (Sant Joan Despi, Spain), Ana Fortuna Gutierrez, Mercè Mayos Pérez, Susana Clos Batet, Laura Videla Toro, Maria Carmona-Iragui, Isabel Barroeta Espar, Javier José Arranz Martinez, Bessy Benejam Paul, Alberto Lleó Bisa, Juan Fortea Ormaechea, Sandra Giménez Badia
PS-15 in poster area

Session 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

**Chairs:** Aikaterini Dimakou (Agia Paraskeyi, Greece), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

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**Immunosuppressed patients with severe COVID-19 pneumonia: clinical characteristics and outcomes**

Ederdo Forin (Barcelona, Spain), Flavia Galli, Francisco Jose Molina Saldarriaga, Anna Motos, Sofia Misuraca, Enric Barbeta, Joan Canseco, Laia Fernandez-Barat, Andrea Catalina Palomeque, Jesus Francisco Bermejo Martin, Ferran Barbe Illa, Antoni Torres

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**Characteristics and outcomes of pregnant women with severe pneumonia related to SARS-CoV-2 admitted to intensive care unit: a retrospective study.**

Naim Dhifaoui (Kairouan, Tunisia), Azza Yedes, Sawsen Bourommena, Becem Trabelsi, Chawki Mrazgua, Mechaal Ben Ali

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**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), Deheul Cuyacot, Brian Joseph Calinawagan, Gamaliel Garcia, John Anthony Tindoc, Hannah Candace Catacutan

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**Clinical profile of COVID patients and predictors of long COVID - South Asian data**

Venugopal Kummannah Parameswaran Pillai (Kottayam (Kerala), India), Rekha Parameswari, Athulya Kumar, Sukumaran Parackal

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**SMOKING AND COVID-19: A COMPLEX INTERACTION**

Mariem Chaabane (Tunis, Tunisia), Hajer Racil, Mariem Friha, Sarra Maazaoui, Sonia Habibech, Ameny Touil, Nawel Chaouch

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**Risk of SARS-CoV-2 infection and disease severity among people with bronchiectasis: analysis of three population registries**


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**Residence density and outcome of COVID infection among bronchiectasis patients**


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**The Relation between ACE Gene Polymorphism and the Severity of COVID-19 Infection**

Ahmed Abdallah Bayounmy (Ismaïlia, Egypt), Yara El-Sayed Marei, Hassnäa Mohamed Abulazm Nassar, Bassam Mansour, Asmaa Bakeir Hamady

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**Characteristics of frailty in perimenopausal women with Long COVID-19 syndrome**

Laura Lopez Lopez (Granada, Spain), Alba Navas Otero, Arceli Ortiz Rubio, Andrés Calvache Mateo, Irene Cabrera Martos, Irene Torres Sánchez, Marie Carmen Valenza

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**Comparison of patients hospitalized for COVID-19 in the periods of Delta and Omicron variants dominance in Greece**


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**Influence of comorbid pathology on the formation of the post-Covid syndrome**

Olena Pidverbetska (Chernivtsi, Ukraine), Liliia Todorko

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**COVID 19 in Indian healthcare workers- a case series**

Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Sekar Rajasekar, Deepa Shankar, Barney Isaac, Balamugesh Thangakumam

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**Shunt fraction and radiological involvement in Covid-19 related Acute Respiratory Failure**

Luca Novelli (Bergamo, Italy), Luca Malandrino, Maurizio Balbi, Federico Raimondi, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberta Trappaso, Roberta Biza, Gianmario Marchesi, Fabiano Di Marco
Body mass index and COVID-19 disease; patient characteristics, complications and outcome.
Ahmed Kabil (Cairo, Egypt), Moaaz Atef, Hossam Abdelmoez

Impact of COVID-19 on patients with PIZZ alpha1-antitrypsin deficiency: the IMCA1 study revisited.
David G. Parr (Coventry (West Midlands), United Kingdom), Joanna Chorostowska-Wynimko, Ángelo Corsico, Cristina Esquinas, Gerard Mcelvaney, Annelot Sark, Maria Sucena, Hanan Tanash, Alice Turner, Marc Miravitlles

Impact age-adjusted Charlson comorbidity index on hospital and one year mortality in chilean patients with COVID-19
Felipe Cayupi (Santiago, Chile), Miljenko Lolas, Francisco Arancibia, María José Corrales, Juan Pablo Cuevas, Daniel Ramos, Constanza Tănblay, Karina Ramirez, Janieleen Venegas, Jorge Cheg, Roberto Gonzalez, Elias Chahuan, Carolina Camp

Clinical impact of COVID-19 in patients with chronic obstructive pulmonary disease
Carlos Manzano Senra (Lleida, Spain), Ivan D Benitez, Anna Moncusí-Moix, Clara Gort-Paniello, Sally SantistevE, Jordi De Batlle, Jessica González, Ferran Barbé

Effects of submaximal exercise on respiratory mechanics in subjects after COVID-19: a descriptive observational study
Lucas Botelho Azevedo (Ribeirão Preto, Brazil), Daniele Oliveira Dos Santos, Jéssica Perossi Nascimento, Thales Henrique Carmo Furquim, Ana Catarine Veiga, Natâra Teixeira Chimellato, Viviane Nunes Ferreira Cszimar, Lívia Pimenta Bonifácio, Fernando Bellissimo Rodrigues, Hugo Celso Dutra Souza, Ada Clarice G Astaldi

Nataliaia Kravchenko (Dnipro, Ukraine), Olha Cherkasova, Lyubov Korsun, Anastasia Fominykh, Bohdan Chernolevsky

DIABETES AND SARS COV-2 INFECTION: PREVALENCE AND IMPACT ON SEVERITY
Slim Ghedira (TUNIS, Tunisia), Sarra Maazaoui, Amany Touil, Sonia Habibe, Hajer Racil, Nawel Chaouche

PS-10 in poster area

Poster session: Cystic fibrosis: disease monitoring, biomarkers, and psychosocial issues

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

Chairs : Mirjam Stahl (Berlin, Germany)

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 Arija (Sevilla, Spain), Pedro Francisco Garcia Tamayo, Maria Rosario Ruiz-Serrano De La Espada, Maria Dolores Nuñez Ollero, David Chacon Cadiz, Maria Dolores Ucero Leon, Jorge Cabrera Guerrero, Candido Fernandez Garcia, Carmen Sanchez De La Puerta Laguna, Isabel Delgado Pecellin, Maria Esther Quintana Gallego, Laura Carrasco Hernandez, Jose Luis Lopez-Campos Bodineau

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
Elpis Hatziaigouros (Panorama, Thessaloniki, Greece), John Kouisis, 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
Assessment of knowledge of general practitioners about Cystic fibrosis in Multan, Pakistan
Abdul Mannan Mustafa (Multan, Pakistan), Ghulam Mustafa

Respiratory microbiota profiles are associated with respiratory health in infants with cystic fibrosis
Ruth Steinberg (Bern, Switzerland), Philipp Latzin, Markus Hilty, Kathrynn Ramsey, Marc Alexander Oestreich, Bettina Frauchiger, Elisabeth Kieninger, Insa Korten, Bild Bild Study Group, Scild Seidl Study Group

Microbiological status predicts lung function decline in cystic fibrosis
Elpis Hatzigiorou (Panorama, Thessaloniki, Greece), Marina Kotzamanis, Persefoni Talimtzis, Maria Tsolia, Elissavet-Anna Chrysochoou

Exploring the attitudes and knowledge of the caregivers of children with cystic fibrosis and primary ciliary dyskinesias regarding COVID-19 vaccination
Pınar Ergenekon (İstanbul, Turkey), Cansu Yılmaz Yegit, Muruuvet Yanaz, Aygün Gülieva, Mine Kalyoncu, Merve Selcuk, Seyda Karabulut, Neval Metin Ğakar, Elda Erdem Eralp, Yasemin Goldemir, Bülent Karadag

Airway colonisation with Aspergillus fumigatus and its impact on the CF microbiota
Deepa Patel (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. Wielüpt, 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 Selcuk (İstanbul, Turkey), Yasemin Goldemir, Elda Erdem Eralp, Almala Pınar Ergenekon, Cansu Yılmaz Yegit, Muruuvet Cenk Yanaz, Aygün Gülieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Özge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bülent 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 Selcuk, Elda Erdem Eralp, Almala Pınar Ergenekon, Cansu Yılmaz Yegit, Muruuvet Yanaz, Aygün Gülieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Özge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bülent 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 Alexitimia Level in Cystic Fibrosis Patients
FATHİ ERCAN (konya, Turkey), Semih Erden, Nail Bilgitay, Sevţi Pekcan, Gökçen Ünal, Ash İmran Yılmaz, Hanife Tuğçe Çağlar

Evaluation of respiratory function at 6 years of age in patients with cystic fibrosis with frequent pulmonary exacerbations in the first 2 years of life

PS-9 in poster area
Poster session: Nutrition, lifestyle and obesity in paediatric asthma and allergic rhinitis
Disease(s) : Airway diseases, Respiratory critical care
Method(s) : Cell and molecular biology, Epidemiology, Pulmonary function testing, Public health, General respiratory patient care, Respiratory intensive care
Chairs : Erick Forno (Indianapolis, United States)
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 Bremmer

Altered sphingolipid metabolism in childhood asthma and obesity
Antonisamy Belavendra (Doha, Qatar), Harshita Shailesh, Yahya Han, 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
Youssra Belhaj (Milano, Italy), Simone Gambazza, Mara Lelii, Barbara Madini, Alessia Rocchi, Lucia Cerrato, Antonella Gambaduoro, 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?
senda derouiche (Tunisia, Tunisia), Sabrine Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

Prevalence of allergy and asthma in school children and their families in South Punjab, Pakistan
Abdul Mannan Mustafa (Multan, Pakistan), Ghulam Mustafa

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, Manuel Sampedro

Neuropsychiatric adverse side-effects of montelukast in children – a Danish nationwide register study.
Louise Toennesen (København K, Denmark), Alexander Jordan, Josefin Eklof, Preadesh Sivapalan, Astrid Sevelsted, Klaus Bønelykke, 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 Sguzzutti, Beatrice Dufrusine, Ilaria Cicalini, Paola Di Filippo, Giulia Dodi, Sabrina Di Pillo, Francesco Chiarelli, Damiana Pieragostino

PolySENSitization in children: Clinical and allergenic characteristics
Hela Cherif (Tunis, Tunisia), Chaima Baya, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdinand Yangui, Mohamed Ridha Charfi

Difference in clinical characteristics between children and adults with allergen immunotherapy in Korea
Hyemi Jee (Seongnam, Republic of Korea), Ju Hee Kim, Young Hyo Kim, Jung-Won Park, Youngmin Ahn, Jeong-Hee Choi, Hye-Sung Baek, Mi-Ae Kim, Hwa Young Lee, Seon Sue Kim, Kyung Hee Park, Man Yong Han

Asthmatic children with an early wheezing: A distinct phenotype?
Mohamed aymen Jebali (tunis, Tunisia), Sabrine Louhaichi, Siwar Rejeb, Synda Derouiche, Farah Garci, Houneida Ben Zekri, Jamel Ammar, Besma Hamdi, Agnes Hamzaoui

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

Asthma in children and dust mite sensitization: what characteristics?
Siwar Rejeb (tunis, Tunisia), Hamdi Besma, Jebali Aymen, Derouiche Senda, Garci Farah, Ammar Jamel, Louhaichi Sabrine, Agnès Hamzaoui
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

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 Troner Hansen, Klaus Bonnelykke, Bo Chawes, Vibeke Backer, Charlotte Suppli Ultrich, Torsten Torp-Pedersen, Nicklas Brustad

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 Delllbrügger, Claude Grenzbach, Jonathan Grigg, Eric Haarman, Bulent Karadag, Siri Rolfsberg, Tina-Maria Weichert, Abigail Whitehouse, Paolo Maria Matricardi, Stephanie Dranburg

PS-12 in poster area
Session 16:00 - 17:30
Poster session: Airway clearance, physical activity and exercise in children and adults with respiratory disorders

<table>
<thead>
<tr>
<th>Disease(s):</th>
<th>Pulmonary vascular diseases</th>
<th>Respiratory critical care</th>
<th>Airway diseases</th>
<th>Interstitial lung diseases</th>
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<td>Method(s):</td>
<td>General respiratory patient care</td>
<td>Physiology</td>
<td>Pulmonary rehabilitation</td>
<td>Imaging</td>
<td>Public health</td>
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<td>Chairs:</td>
<td>Rainer Gloeckl (Schoenau am Koenigssee, Germany), Naciye Vardar Yağlı (Ankara, Turkey)</td>
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Is it possible to evaluate the relationship between strength and respiratory muscle performance with motor performance in premature newborns in the neonatal period?
Evelim Gomes (São Paulo (SP), Brazil), Debora Anjos, Carolina Camargo, Etienne Carvalho, Direceu Costa, Eneida Suda

Evaluating physiotherapy interventions for infants with bronchiolitis – a survey study
Sonja Andresson Marforio (Hjärup, Sweden), Annika Lundkvist Josenby

Inspiratory muscle training for children and adolescents with spinal muscular atrophy, who are treated with nusinersen
Sara Hedén (Eslöv, Sweden), Annika Lundkvist-Josenby

Peripheral muscle mass and motor performance is there a relationship in the neonatal period in premature newborns?
Camargo Carolina (São Paulo, Brazil), Debora Anjos, Etienne Carvalho, Eneida Suda, Direceu Costa, Evelim Gomes

Respiratory symptoms and access to physiotherapy in children with cerebral palsy in Albania
Malvina Hoxha (Tirana, Albania), Visar Malaj, Emanuela Prendi, Bruno Zappacosta

The effect of a mechanical insufflation exsufflation titration protocol on delivered settings in patients with neuromuscular disease.
Sophie Maddlen-Scott (London, United Kingdom), Neeraj Shah, Karthhika Jeyakumar, Laura Weatherley, Lauren Joyce, Georgios Kaisatsakas, Nicholas Hart, Patrick Murphy, Leyla Osman

Assessing personalised airway clearance techniques in Primary Ciliary Dyskinesia with 129Xe ventilation MRI
Lyne Schofield (Leeds, United Kingdom), Laurie Smith, Alberto Biancadi, Évie 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

Evaluating the effects of MetaNeb® compared to usual airway clearance techniques during exacerbations of cystic fibrosis: A randomised controlled trial
Naomi Chapman (Kewdale, Australia), Vinicius Cavalheri, Elizabeth Smith, Jamie Wood, Angela Jacques, Anna Tai, Siobhain Mulrennan, Kylie Hill

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

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

What Are The Factors Affecting Respiratory Muscle Functions in Idiopathic Pulmonary Fibrosis?: A Preliminary Study
Özge Ertan Harputlu (İstanbul, Turkey), Zeynal Yasaci, Tugce Tahmaz, Goksen Kuran Aslan, Esen Kiyanoğlu, Gulfer Okumus
Relationship between anaerobic power and exercise capacity in cystic fibrosis with impaired glucose tolerance
Deniz Inal-Ince (Ankara, Turkey), Elif Kocaaga, Dilber Ademhan-Tural, Cemile Bozdemir-Ozel, Ebru Calik-Kutukcu, Naciye Vardar-Yagli, Melda Saglam, Deniz Dogru, Ayfer Alikasifoglu, Nagehan Emiralioglu

Exercise capacity, inflammation, hemodynamic and macrovascular function in children with CF in different genders
Senem Simsek (Ankara, Turkey), Aslihan Cakmak, Mertem Akgul-Erdal, Yasemin Kartal, Murat Timur Budak, Suna Sabuncuoğlu, Nagehan Emiralioglu, Elmas Ebru Gunes-Yalcin, Deniz Inal-Ince

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

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, Naciye Vardar Yagli, Ebru Calik Kutukcu, Ugur Ozcelik

Determinants of daily steps in people with interstitial lung disease
Ana Sofia Brites Grave (Aveiro, Portugal), Cátia Paixão, João Antão, Francisca Teixeira Lopes, Vânia Fernandes, Maria Aurora Mendes, António Mesquita Montes, Alda Marques

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 Alvarelinha

Efficacy of respiratory physiotherapy in the management of infectious pleural effusion (IPE): a randomized clinical trial
Julia Tarrega Camarasa (Granollers, Spain), Inmaculada Castillo, Enric Barbeta

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 Leitl (Schönau a. Königssee, Germany), Tessa Schneeberger, Inga Jarosch, Rainer Gloeckl, Sandra Winterkamp, Andreas Rembert Koczulla

PS-2 in poster area Session 16:00 - 17:30
Poster session: Translational research in chronic obstructive pulmonary disease

Testing the novel Q0genova deletion in patient with Alpha1-antitrypsin Deficiency
Valentina Barzon (Casanova Lonati (PV), Italy), Stefania Ottaviani, Alice Maria Balderacchi, Alessandra Corino, Sara Magni, Davide Piloni, Angelo Guido Corsico, Ilaria Ferrarotti

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 Agustí, Rosa Faner

AIF1 may stimulate the M1 polarization of alveolar macrophages and further promote the development of inflammatory response in COPD
Lian Liu (Chengdu (Sichuan), China)

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 Conflationeri, Leonardo Iannacci, Silvia Mancinelli, Paola Putignano, Giulia Maria Stella, 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 TuRESSON

Profile of myostatin regulation and downstream mechanisms in the sarcopenia of severe COPD patients
Adriana Núñez Robainas (Barcelona, Spain), María Guitart, Antonio Sancho Muñoz, Esther Barreiro

Exome seq of patients with severe COPD and advanced emphysema
Alen Faiz (Ultimo (NSW), Australia), Simon D. Pauwels, 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 negative regulators of Wnt/β-catenin signaling in lung epithelial cells through whole genome CRISPR screen
Markus Tammia (Möln达尔, Sweden), Anna Dickson, Niamh Mullooly, Adam Corrigan, Alessia Serrano, Yaxin Xue, Chang Kim, Ewa Kolosionek, Stefan Vollmer, Bairu Zhang, Leire Escudero-Ibarz, Valentina Quarrantotti, Gabriella Leung, Daniela Cornacchia, Sandeep Botla, Linn Kullberg, Louise SJtjernborg, Olivia Pembriidge, Mahya Dezfouli, Naomi Lyons, Joseph Collin, Leif Wigge, Anna Forslöw, Mirko Messa, Roxane Paulin, Ceri Wiggins, Biladá 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 Bergougnoux, Arnaud Bourdin

Cigarette smoking, COPD and the sex chromosomes
Karosham (Diren) Reddy (Bergen, Norway), Rune Nielsen, Solveig Tangedal, Kris Ostridge, Eli Nordeide, Terje Hjalmar Larsen, Karel Kuiper, Tomas Mikal Eagan

Identification of disease modifier genetic variants in PiZZ patients with alpha-1 antitrypsin deficiency
Beatriz Martinez Delgado (Madrid, Spain), Janan Lachhandani, 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 Nijunakan (Groningen, Netherlands), Alen Faiz, Cornelis Joseph Vermeulen, Wim Timens, Maaike De Vries, Rosa Faner, Pieter Hiemstra Hiemstra, Corry-Anke Brandsma, Maarten Van Den Berge

Polymorphism endothelin-1 gene (Lys198Asn) in airway remodeling and increased endothelial dysfunction in COPD
Elnorahon Abduganieva (Tashkent, Uzbekistan)

Late Breaking Abstract - Characterization of goblet cell metaplasia according to small airway generation and emphysema progression in human lungs
Charlotte de Fays (Loverval, Belgium), Vincent Geudens, Yousry Mohamady, Luca Aversa, Gitte Aerts, Charlotte Hooft, Bruno Detry, Marylene Lecocq, Caroline Bouzin, Sophie Gohy, Ghislaine Gayan-Ramirez, Robin Vos, Bart Vanaudenaerde, Charles Pilette

Development of a next generation sequencing assay for detection of A1AT deficiency
Susana Catarino (Derieo, Spain), Lorena Alonso, Monika Landeta, Ana Vivanco, Marta Artieda, Amaia Larruskain, Monica Lopez
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<th>Time</th>
<th>Session</th>
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<td>17:15</td>
<td>Assembly members meeting: presentation, discussion and Q&amp;A</td>
<td>Ioannis Vogiatzis (Blyth, United Kingdom)</td>
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<td>17:15</td>
<td>Assembly members meeting: presentation, discussion and Q&amp;A</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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<td>H. Irene Heijink (Groningen, Netherlands)</td>
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<td>Omar S. Usmani (London, United Kingdom)</td>
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<td>Charlotte Suppli Ulrik (Virum, Denmark)</td>
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<td>Federica Meloni (Pavia, Italy)</td>
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<td>17:15</td>
<td>Assembly members meeting: presentation, discussion and Q&amp;A</td>
<td>Daniel Langer (Leuven, Belgium)</td>
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ERS International Congress 2023
DETAILED PROGRAMME
TUESDAY 12 SEPTEMBER, 2023
| 17:15 | Assembly members meeting: presentation, discussion and Q&A  
Daniel Langer (Leuven, Belgium) |
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<tbody>
<tr>
<td>Red 1+2</td>
<td>Session</td>
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</table>
| 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) |
| Brown 3 | Session | 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 | 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 | 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 | 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) |
### Studio (White) Session 08:30 - 09:20

**Experts interview: Tobacco, e-cigarette and cannabis epidemic in youth / Indoor air pollution**

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Tobacco, e-cigarette and cannabis epidemic in youth</td>
<td>Elif Dagli (Istanbul, Turkey)</td>
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<tr>
<td>08:45</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>08:55</td>
<td>Indoor air pollution</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:10</td>
<td>Discussion and Q&amp;A</td>
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### Brown 1+2 Session 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.

**Chairs:** Elif Dagli (Istanbul, Turkey), Chair to be confirmed

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Tobacco 21 policies: addressing smoking and ENDS use in young people</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:10</td>
<td>Brainstorming session: how to make 21+ tobacco approach a reality in Europe? Influencing national and EU agenda</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:40</td>
<td>Video testimonial on vaping prevalence in schools and among youth</td>
<td>Speaker to be confirmed</td>
</tr>
<tr>
<td>09:45</td>
<td>ERS position on harm reduction and novel products</td>
<td>Filippos T. Filippidis (Rickmansworth, United Kingdom)</td>
</tr>
<tr>
<td>09:55</td>
<td>Trends in the use of electronic cigarettes, heated and smokeless tobacco in Italian youth</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>10:05</td>
<td>Tobacco-free generation and endgame in Europe</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania)</td>
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<tr>
<td>10:15</td>
<td>Round table: regulation gaps and how to apply Italian experience across Europe?</td>
<td>Speaker to be confirmed</td>
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### INDUSTRY WEDNESDAY SPECIAL SESSION

**Pro-Con debate: Is it clinically helpful to say someone has ‘mild’ asthma?**

**Aims:** to discuss and consider what mild asthma represents and how to address it; to discuss how international guidelines, the Global Initiative for Asthma (GINA) and the National Asthma Education and Prevention Program (NAEPP) address the definitions of asthma control, asthma severity and future risks; to discuss the reality and perspective of mild asthma; to answer the question of whether the term ‘mild’ asthma has clinical utility or whether alternative terms are needed.

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

**Method(s):** Epidemiology, General respiratory patient care, Physiology

**Tag(s):** Clinical

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

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)
Yes, there is clinical utility in saying someone has ‘mild’ asthma
Florence Schleich (Liège, Belgium)

No, there is no clinical utility in saying someone has ‘mild’ asthma
Johann Christian Virchow (Rostock, Germany)

Discussion and Q&A

### Brown 3

**Session**
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, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Radiologist, Respiratory physiotherapist

**Chairs:**
Salman Siddiqui (London, United Kingdom), David Drummond (Paris, France), Chair to be confirmed

**09:45 Introduction and welcome**
James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal)

**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**
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), Salman Siddiqui (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark), Job F.M. van Boven (Groningen, Netherlands), Lucy Dixon (Buckingham, United Kingdom), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy), Ludger Grote (Göteborg, Sweden)

### Overflow area

**Session**
09:45 - 12:00

**Wednesday special session: ERS Women’s networking event**

**Connect, collaborate, empower**

**Aims:** This session aims to create a platform for respiratory professionals to connect, build relationships, and exchange knowledge and experiences. To encourage collaboration among women in the respiratory profession, fostering partnerships, teamwork, and the sharing of ideas and best practices. To empower women in the respiratory profession by offering career development resources, mentorship programs, and discussions on leadership and advancement opportunities. To highlight the importance of diversity and inclusion in the field of respiratory care, and encourage women from diverse backgrounds to participate and contribute to the event. To collaborate with relevant organisations, national societies, and industry partners.
Overflow 1: Welcome
Monika Gappa (Düsseldorf, Germany), Judith Garcia-Aymerich (Barcelona, Spain)

Overflow 2: Academia - Women in Science
Sara Cuevas Ocaña (Nottingham, United Kingdom), Niki Ubags (Epalinges, Switzerland), Silke Meiners (Sülfeld, Germany), Zorana Andersen (Frederiksberg, Denmark)

Overflow 3: Academia - Women in Patient care/Healthcare
Monika Gappa (Düsseldorf, Germany), Arzu Yorgancioglu (Konak, Turkey), Ildikó Horváth (Budakeszi, Hungary), Speaker to be confirmed

Overflow 4: Women in Industry
Maria Gabriela Belvisi (Mölndal, Sweden), Juby Anne Jacob-Nara (Hillsborough, United States), Sabine Bartel (Groningen, Netherlands), Sara Jane Bonvini (London, United Kingdom), Speaker to be confirmed

Yellow 1+2+3 Session 10:00 - 11:20
Wednesday special session: Excellence in rare diseases care and research: the ERN-Lung go East
Aims: to present the ERN-LUNG Network and highlight some of its assets achieved during the past years through funding and support by the European Commission and the ERS; to learn from participants about their expectations and needs to better tailor initiative offerings and to offer a better support; to present the following take home messages: 1) There is always someone who knows more about this rare disease than myself; 2) ERN-LUNG is the place where to find and get in contact with this Expert across all of Europe.

Chairs: Marlies S. Wijsenbeek (Rotterdam, Netherlands), Chair to be confirmed

What is ERN-LUNG?
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Speaker to be confirmed

How to get involved?
Speaker to be confirmed

What can networking do for my patients?
Adam Torbicki (Otwock, Poland)

What can ERN-LUNG do for me?
Helge Hebestreit (Wuerzburg, Germany)

ERN-LUNG Academy?
Elisabeth Humbert-Dorfmüller (Frankfurt am Main, Germany)

ERN-LUNG Patients
Speaker to be confirmed

Red 1+2 Session 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: Anita Simonds (London, United Kingdom), Chair to be confirmed

Introduction

Anticipating and coping with seasonal respiratory burdens
Tobias Welle (Hannover, Germany)

Seasonal burdens: a global patient advocacy perspective
Speaker to be confirmed

The way forward in preventing and managing COPD exacerbations
Assessing and caring for the respiratory consequences of wildfires
Speaker to be confirmed

Role of the International Respiratory Coalition
Carlos Robalo Cordeiro (Coimbra, Portugal)

Panel discussion: identifying needs and creating a strategy for national IRC coalitions
Judith Garcia-Aymerich (Barcelona, Spain), Kjeld Hansen (Oslo, Norway), Ellen Ricke (Hillegom, Netherlands), Speaker to be confirmed

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: Chair to be confirmed

Why clean air and why now? What is the latest evidence on clean air and lung health?
Barbara Hoffmann (Düsseldorf, Germany)

Why clean air and why now? Why it matters to respiratory patients?
Kjeld Hansen (Oslo, Norway)

Why is it important for Milan and Lombardy?
Francesco Forastiere (Roma (RM), Italy)

How can we achieve change: working in partnership - C40

How can we achieve change: Having outcomes and impact - Clean air fund

How can we achieve change: communication and events – Healthy Lungs for Life Ghana

How can we achieve change: creating your legacy

Call to action for clean air to Milan and Europe in light of the Ambient Air Quality Directive

News from the studio: Congress wrap-up

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

Discussion and Q&A
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<tr>
<td>ERS Stand/World Village</td>
<td>13:00 - 14:00</td>
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Session world village: Meet with the ECMC representatives: ERS opportunities for ECMs/Basic and translational sciences (Assembly 3) within the ERS

Chairs: Sara Cuevas Ocaña (Nottingham, United Kingdom), Matteo Bradicich (Zollikerberg, Switzerland)
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<tr>
<td>12:00</td>
<td>Session world village: Meet with the ECMC representatives</td>
<td>Chairs: Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey), Karen Moor (Rotterdam, Netherlands)</td>
<td>13:00</td>
<td>Session world village: Meet with the ECMC representatives: How to increase your visibility and network as ECM</td>
<td>Chairs: Susanne Vijverberg (Amsterdam, Netherlands), Joana Cruz (Leiria, Portugal), Matteo Bradicich (Zollikerberg, Switzerland)</td>
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Session world village: Meet with the ECMC representatives: How to get involved in ERS activities as an Early Career Member

Chairs: Joana Cruz (Leiria, Portugal), Matteo Bradicich (Zollikerberg, Switzerland), Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey)

12:00
INDUSTRY SESSIONS

DISCLAIMER: THE PRACTICAL WORKSHOPS, EVENING SYMPOSIA, EVENING MINI-SYMPOSIA, EVENING EXPERT FORUM SESSIONS AND EARLY MORNING SYMPOSIA ARE ORGANISED BY INDUSTRY. YOU CANNOT CLAIM CME CREDITS FOR ATTENDING THESE SESSIONS.
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<tr>
<th>No Room</th>
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<tr>
<td>Rehearsal: Opening Session rehearsal</td>
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**Purple Session** 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*

**Chairs**: Christoph Lange (Borstel, Germany)

07:15  **Chair’s Introduction and Program Overview**
Christoph Lange (Borstel, Germany)

07:30  **The Critical Role of Longitudinal Microbiologic Monitoring in MAC Lung Disease: Guiding Antibiotic Selection, Route and Intensity of 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**
Stefano Aliberti (Milano (MI), Italy)

07:45  **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**
David E. Griffith (Denver, United States)

08:00  **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**
Francesco Blasi (Milan, Italy)

**Coral 1 Session** 07:15 - 08:15

**Industry early morning symposium: On-Therapy Remission in Pediatric Asthma: Where Are We Today?**

*Organised by Sanofi Regeneron*

07:15  **Welcome**
Giorgio Piacentini (Verona (VR), Italy)

07:20  **Progression of Underlying Disease in Pediatric Severe Asthma**
Giorgio Piacentini (Verona (VR), Italy)

07:35  **Panel Discussion**
Giorgio Piacentini (Verona (VR), Italy), Sharon Dell (Vancouver, British Columbia, Canada)

07:45  **Assessing Disease Activity to Better Define On-Treatment Clinical Remission in Pediatric Severe Asthma**
Sharon Dell (Vancouver, British Columbia, Canada)

08:05  **Question and Answer**
Sharon Dell (Vancouver, British Columbia, Canada), Giorgio Piacentini (Verona (VR), Italy)

**Amber 7+8 Session** 08:00 - 08:45

**Industry Skills Lab Workshop: Clinical decisions for better Mask Management**

*Organised by Philips*

**Chairs**: Teofilo Lee-Chiong (Denver, United States)

08:00  **Impact of Mask Choice on CPAP therapy outcomes**
Pedro Rodrigues Genta (São Paulo (SP), Brazil)

08:20  **Clinical Cases**
Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)

08:35  **Hands on**
Faycal Abdenbi (Goussainville, France)
Amber 5+6  
Session 08:00 - 08:45

Industry Skills Lab Workshop: Thoracic Ultrasound – pleural and emergency care. Practical expertise on how to carry out this everyday practice.

Organised by FUJIFILM

Chairs: Maarten Criel (Leuven, Belgium)

08:00 Hands On

Amber 7+8  
Session 10:30 - 11:45

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)

Amber 5+6  
Session 10:30 - 11:15

Industry Skills Lab Workshop: Improving NIV management with deep dive into high resolution data

Organised by ResMed

Chairs: Claudia Crimi (Catania (CT), Italy), Chair to be confirmed

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

Coral 1  
Session 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)

12:15 Introduction
Fabiano Di Marco (Milan, Italy)

12:20 The Gold Standard for starting treatment in COPD
Claus Vogelmeier (Marburg, Germany)

12:35 Inhaled corticosteroids in COPD: who and when?
Dave Singh (Manchester, United Kingdom)

12:50 Optimal Strategies in Asthma Management
Kenneth R. Chapman (Toronto (ON), Canada)

13:05 Q&A
Fabiano Di Marco (Milan, Italy), Claus Vogelmeier (Marburg, Germany), Dave Singh (Manchester, United Kingdom), Kenneth R. Chapman (Toronto (ON), Canada)
### Silver Session 12:15 - 13:15

**Industry Lunchtime Symposium: Cardiopulmonary risk: a new perspective in COPD management**  
*Organised by AstraZeneca*

**Chairs:** Mona Bafadhel (London, United Kingdom)

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<tbody>
<tr>
<td>12:15</td>
<td>Welcome, introduction and opening remarks</td>
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<tr>
<td>12:17</td>
<td>COPD through a different lens: the implications of COPD-driven cardiopulmonary risk</td>
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<td>12:32</td>
<td>Panel discussion</td>
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<td>12:42</td>
<td>Focusing on proactive management: preventing exacerbations and reducing mortality with triple therapy</td>
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<td>12:58</td>
<td>Reflections from a cardiologist: the importance of mortality reduction</td>
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<td>13:03</td>
<td>Panel discussion</td>
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<td>13:13</td>
<td>Summary and close</td>
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### Coral 2 Session 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)

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<tbody>
<tr>
<td>12:15</td>
<td>Welcome &amp; Introduction</td>
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<tr>
<td>12:18</td>
<td>The role of the airway epithelium as a critical immune-functioning organ</td>
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<td>12:28</td>
<td>Bronchial and nasal epithelium: are they the same?</td>
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<tr>
<td>12:38</td>
<td>The epithelium: from pathogenesis to the clinic, and the use of biomarkers</td>
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<td>12:48</td>
<td>The role of epithelial cytokines in asthma control and remission</td>
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<td>12:58</td>
<td>Learnings from the epithelium: implications for patient care and future opportunities</td>
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<td>13:14</td>
<td>Symposium close</td>
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### Gold Session 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)

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<th>Time</th>
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<tbody>
<tr>
<td>12:15</td>
<td>Welcome and Introduction</td>
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<tr>
<td>12:25</td>
<td>From BPD to COPD: early origins of chronic lung diseases</td>
</tr>
</tbody>
</table>
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)

Industry Virtual Channel  Session  12:45 - 13:45

Industry Virtual Symposium: Improving outcomes in hospitalised patients with COVID-19: Perspectives from across the disciplines
Organised by Gilead Sciences Europe Ltd
Chairs : Tobias Welte (Hannover, Germany)

12:45  Welcome and introduction
Tobias Welte (Hannover, Germany)

12:50  Navigating the COVID-19 disease landscape
Eva Polverino (Barcelona, Spain)

13:00  How are data guiding the management of COVID-19?
Robert Gottlieb (Dallas, United States), Tobias Welte (Hannover, Germany)

13:25  Finding our way with individualised treatment
Tobias Welte (Hannover, Germany), Eva Polverino (Barcelona, Spain), Robert Gottlieb (Dallas, United States)

13:40  Summary and meeting close
Tobias Welte (Hannover, Germany)

Yellow 1+2+3  Session  12:45 - 13:45

Industry Lunchtime Symposium: Can the immune system be primed to prevent recurrent respiratory tract infections in children?
Organised by OM Pharma SA
Chairs : Susanna Esposito (Milano (MI), Italy)

12:45  Welcome & introduction
Susanna Esposito (Milano (MI), Italy)

12:50  Understanding the potential of bacterial lysates exposure for the prevention of childhood recurrent respiratory tract infections
Erika von Mutius (München, Germany)

13:10  Role of immunomodulation in children with recurrent respiratory tract infections and wheezing
Manuel Soto Martinez (San José, Costa Rica)

13:30  Summary & concluding remarks
Susanna Esposito (Milano (MI), Italy)

13:35  Q&A
Susanna Esposito (Milano (MI), Italy), Erika von Mutius (München, Germany), Manuel Soto Martinez (San Jose, Costa Rica)

Brown 3  Session  12:45 - 13:45

Industry Lunchtime Symposium: Beyond Asthma Control in Severe Type 2 Asthma Management
Organised by Sanofi Regeneron
Chairs : Klaus F. Rabe (Kiel, Germany)

12:45  Opening Remarks
Klaus F. Rabe (Kiel, Germany), Arnaud Bourdin (Montpellier Cedex 5, France), Guy Brusselle (Ghent, Belgium)

12:50  Understanding the Patient Phenotypes of Type 2 Asthma
Guy Brusselle (Ghent, Belgium)
<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Beyond Control With Dupilumab in Type 2 Asthma</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
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<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>
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<tr>
<td>13:20</td>
<td>Panel Discussion: Reconsidering Long-Term Goals Beyond Control for Severe Asthma Management</td>
<td>Klaus F. Rabe (Kiel, Germany), Arnaud Bourdin (Montpellier Cedex 5, France), Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>13:30</td>
<td>Audience Q&amp;A</td>
<td>Klaus F. Rabe (Kiel, Germany), Arnaud Bourdin (Montpellier Cedex 5, France), Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>13:40</td>
<td>Closing Remarks</td>
<td>Klaus F. Rabe (Kiel, Germany), Arnaud Bourdin (Montpellier Cedex 5, France), Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>14:00</td>
<td>Industry Skills Lab Workshop: Eucapnic Voluntary Hyperpnea (EVH) Provocation Test: A practical guide to using EVH challenges to diagnose Exercise Induced Bronchoconstriction</td>
<td>John Dickinson (Canterbury, United Kingdom)</td>
</tr>
<tr>
<td>14:20</td>
<td>Comparison of spirometry and oscillometry as a tool for grading the bronchoconstriction</td>
<td>John Dickinson (Canterbury, United Kingdom)</td>
</tr>
<tr>
<td>14:30</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>
</tr>
<tr>
<td>14:00</td>
<td>Industry Skills Lab Workshop: Phenotyping and personalized OSA therapy clinical objectives</td>
<td>Sophia E. Schiza (Heraklion, Greece), Andreas Palm (Uppsala, Sweden)</td>
</tr>
<tr>
<td>14:00</td>
<td>CPAP therapy and cardiovascular outcomes</td>
<td>Frédéric Gagnadoux (Orvault, France)</td>
</tr>
<tr>
<td>14:18</td>
<td>Phenotype and patient centric approaches with CPAP therapy</td>
<td>Raphael Heinzer (Lausanne, Switzerland)</td>
</tr>
<tr>
<td>15:30</td>
<td>Industry Skills Lab Workshop: Innovative clinical practice in home HFT. Titration, follow up and best practice</td>
<td>Patrick B. Murphy (Oxted (Surrey), United Kingdom)</td>
</tr>
<tr>
<td>15:30</td>
<td>Evidence to practice</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
</tr>
<tr>
<td>15:48</td>
<td>Clinical practice through case studies</td>
<td>Line Storgaard (Aabybro, Denmark)</td>
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<td>16:06</td>
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<td>16:24</td>
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</tbody>
</table>
### Coral 2 Session 17:30 - 19:00

**Industry evening symposium: Severe asthma treatment paradigm change: how much further can we go after reducing OCS treatment?**

*Organised by AstraZeneca*

**Chairs:** Matteo Bonini (Rome, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Chair’s welcome</strong></td>
</tr>
<tr>
<td></td>
<td>Matteo Bonini (Rome, Italy)</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>Managing severe asthma: treatment guidelines and clinical perspectives</strong></td>
</tr>
<tr>
<td></td>
<td>Renaud Louis (Liège, Belgium)</td>
</tr>
<tr>
<td>17:45</td>
<td><strong>RWE for severe asthma: background therapy patterns before and after biologic use</strong></td>
</tr>
<tr>
<td></td>
<td>Cláudia Catarina Ferreira Chaves Loureiro (Coimbra, Portugal)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Interactive discussion: how should the reduction of background treatment be approached in patients with well-controlled asthma?</strong></td>
</tr>
<tr>
<td></td>
<td>Matteo Bonini (Rome, Italy), Cláudia Catarina Ferreira Chaves Loureiro (Coimbra, Portugal), Stephanie Korn (Mainz, Germany)</td>
</tr>
<tr>
<td>18:35</td>
<td><strong>Background treatment reduction: how far can we go in severe asthma?</strong></td>
</tr>
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<td></td>
<td>Stephanie Korn (Mainz, Germany)</td>
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<tr>
<td>18:50</td>
<td><strong>Q&amp;A and close</strong></td>
</tr>
<tr>
<td></td>
<td>Matteo Bonini (Rome, Italy), Cláudia Catarina Ferreira Chaves Loureiro (Coimbra, Portugal), Stephanie Korn (Mainz, Germany), Renaud Louis (Liège, Belgium)</td>
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</tbody>
</table>

### Coral 3 Session 17:30 - 19:00

**Industry evening symposium: A Journey Through the Spectrum of Pulmonary Fibrosis**

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:** Luca Richeldi (Roma, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>17:30</td>
<td><strong>Welcome and introduction</strong></td>
</tr>
<tr>
<td></td>
<td>Luca Richeldi (Roma, Italy)</td>
</tr>
<tr>
<td>17:40</td>
<td><strong>Diagnosis and treatment of pulmonary fibrosis: where are we now?</strong></td>
</tr>
<tr>
<td></td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>17:55</td>
<td><strong>Interstitial lung abnormalities: a call to action?</strong></td>
</tr>
<tr>
<td></td>
<td>Sara Tomassetti (Florence, Italy)</td>
</tr>
<tr>
<td>18:10</td>
<td><strong>Progressive pulmonary fibrosis: the end of the spectrum?</strong></td>
</tr>
<tr>
<td></td>
<td>Elisabetta Renzoni (London, United Kingdom)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>Research in pulmonary fibrosis: where are we going?</strong></td>
</tr>
<tr>
<td></td>
<td>Fernando J. Martinez (New York, United States)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Q&amp;A</strong></td>
</tr>
<tr>
<td></td>
<td>Luca Richeldi (Roma, Italy), Vincent Cottin (Lyon, France), Sara Tomassetti (Florence, Italy), Elisabetta Renzoni (London, United Kingdom), Fernando J. Martinez (New York, United States)</td>
</tr>
</tbody>
</table>

### Purple Session 17:30 - 19:00

**Industry evening symposium: Dr Jekyll and Mr Hyde: the two faces of bronchiectasis**

*Organised by Insmed Netherlands BV*

**Chairs:** Tobias Welte (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Introduction and patient case study overview</strong></td>
</tr>
<tr>
<td></td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>17:45</td>
<td><strong>Delving deeper into this patient’s pathophysiology</strong></td>
</tr>
<tr>
<td></td>
<td>Anne O'Donnell (Washington, United States)</td>
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<tr>
<td>17:55</td>
<td><strong>Management of infection: the key driver of bronchiectasis</strong></td>
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<td>Charles Haworth (Cambridge, United Kingdom)</td>
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</table>
### ERS International Congress 2023  
**INDUSTRY SESSIONS**  
**SUNDAY 10 SEPTEMBER, 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
</table>
| 18:10 | **Yellow 1+2+3 Session** | **18:10 Bronchiectasis is an inflammatory condition**  
Eva Polverino (Barcelona, Spain) |  
| 18:20 | **Management of inflammation: the key driver of bronchiectasis**  
Pieter Goeminne (Bornem, Belgium) |  
| 18:40 | **Panel discussion & summary**  
Tobias Welte (Hannover, Germany), Anne O'Donnell (Washington, United States), Charles Haworth (Cambridge, United Kingdom), Eva Polverino (Barcelona, Spain), Pieter Goeminne (Bornem, Belgium) |  

**Yellow 1+2+3 Session**  
**17:30 - 19:00**  
*Organised by Janssen Pharmaceutica NV*  
**Chairs:** Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)

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<tr>
<th>Time</th>
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<th>Title</th>
<th>Speakers</th>
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</thead>
</table>
| 17:30 | **Welcome and introductions**  
Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland) |  
| 17:35 | **Unravelling unexplained dyspnoea**  
Athénaïs Boucly (Le Kremlin Bicêtre, France) |  
| 18:05 | **Initial management and follow-up of PAH**  
Vasile Foris (Graz, Austria) |  
| 18:25 | **Individualising treatment in patients with PAH and comorbidities**  
David Kiely (Sheffield (South Yorkshire), United Kingdom) |  
| 18:50 | **Q&A and close**  
Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland) |  

**Blue 1+2 Session**  
**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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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
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</table>
| 17:30 | **Welcome and introduction: The virtuous cycle of patient partnerships, improved outcomes, and sustainable respiratory care**  
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom) |  
| 17:40 | **Why climate change and environmental sustainability is everybody’s problem**  
Rachel Huxley (Melbourne, Australia) |  
| 17:50 | **Q&A discussion**  
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom) |  
| 18:00 | **How sustainable global pharmaceutical regulations are impacting supply chains: What this could mean for your patients**  
John Pritchard (Newtown Linford, United Kingdom) |  
| 18:10 | **Q&A discussion**  
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom) |  
| 18:15 | **Combining sustainable interventions with optimal patient outcomes: Lessons learned from adult-onset asthma phenotypes**  
Hannu Kankaanranta (Seinäjoki, Finland) |  
| 18:25 | **The UK view on sustainable clinical decision-making in respiratory care**  
Alexander Wilkinson (Hertfordshire, United Kingdom) |  
| 18:35 | **The Nordic view on sustainable clinical decision-making in respiratory care**  
Christer Janson (Uppsala, Sweden) |  
| 18:45 | **Q&A discussion**  
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom) |
### Amber 5+6 Session 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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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
<tr>
<td>17:35</td>
<td>NCFBE - What to do when things get tricky?</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
<tr>
<td>17:53</td>
<td>Severe asthma and AATD - Cause or comorbidity?</td>
<td>Laura Pini (Brescia (BS), Italy)</td>
</tr>
<tr>
<td>18:11</td>
<td>Alpha-1 Antitrypsin deficiency - What's around the bend?</td>
<td>Jose Luis López-Campos Bodineau (Sevilla, Spain)</td>
</tr>
<tr>
<td>18:29</td>
<td>Pulmonary rehabilitation: Old questions - new answers!?</td>
<td>Andreas Rembert Koczulla (Schönenau am Königssee, Germany)</td>
</tr>
<tr>
<td>18:47</td>
<td>Final discussion</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<tr>
<td>18:55</td>
<td>ALTA-award ceremony</td>
<td>Marion Trautmann (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>18:58</td>
<td>Summary and Close</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
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</table>

### Amber 7+8 Session 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)

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<tr>
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<tbody>
<tr>
<td>17:30</td>
<td>Chair's welcome and introduction</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
</tr>
<tr>
<td>17:40</td>
<td>From the beginning: Early manifestations of CF</td>
<td>Maria del Carmen Luna (Madrid, Spain)</td>
</tr>
<tr>
<td>17:55</td>
<td>Through the ages: Tracking lung disease</td>
<td>Mirjam Stahl (Berlin, Germany)</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>
</tr>
<tr>
<td>18:55</td>
<td>Summary and close</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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### Brown 1+2 Session 17:30 - 19:00

**Industry evening symposium: Advancing the Understanding of COPD: A Pathophysiological Perspective of Disease**  
*Organised by Sanofi Regeneron*

**Chairs:** MeiLan K. Han (Ann Arbor, United States)
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td><strong>Opening Remarks</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States), Kenneth R. Chapman (Toronto (ON), Canada), Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>COPD a Progressive Airway Disease Shaped by Exacerbations</strong></td>
<td>Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>17:50</td>
<td><strong>Characterization of COPD: Emerging Phenotypes and Endotypes</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Panel Discussion: Extending Beyond the Pink Puffer and Blue Bloater: What Role Do Novel Phenotypes Play in the Clinic?</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States), Kenneth R. Chapman (Toronto (ON), Canada), Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>18:15</td>
<td><strong>Understanding Inflammatory Pathways Driving the Pathophysiology of COPD</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>18:30</td>
<td><strong>Panel Discussion: Knowledge to Practice: Type 2 Inflammation in COPD</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States), Kenneth R. Chapman (Toronto (ON), Canada), Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Closing Remarks</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States), Kenneth R. Chapman (Toronto (ON), Canada), Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>18:45</td>
<td><strong>Audience Q&amp;A</strong></td>
<td>MeiLan K. Han (Ann Arbor, United States), Kenneth R. Chapman (Toronto (ON), Canada), Frank Sciurba (Pittsburgh, United States)</td>
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</table>
Amber 7+8 Session 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)

08:00 Hands on: 2 x transbronchial cryobiopsy, 2 x central airway obstruction
Jürgen Hetzel (Switzerland), Pallav L. Shah (London, United Kingdom)

Amber 5+6 Session 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)

10:30 What evidence-based medicine says about ASV therapy
Jean-Louis Pépin (Grenoble, France)

10:48 The indication of use of ASV therapy

Amber 7+8 Session 10:30 - 11:15

Industry Skills Lab Workshop: A virtual based approach to improve CPAP Therapy
Organised by Philips

Chairs: Stefania Redolfi (Cagliari, Italy)

10:30 Introduction to CPAP Therapy and Telemedicine
Stefania Redolfi (Cagliari, Italy)

10:35 Improving sleep apnea management using technological advancements
Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)

11:00 Hands On
Faycal Abdenbi (Goussainville, France), Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)

Silver Session 12:15 - 13:15

Industry Lunchtime Symposium: Targeting COPD With Type 2 Inflammation: Emerging Biologic Landscape
Organised by Sanofi Regeneron

Chairs: Klaus F. Rabe (Kiel, Germany)

12:15 Welcome and Objectives
Klaus F. Rabe (Kiel, Germany)

12:20 Contextualizing Clinical Consequences of COPD Through Disease Pathology
Klaus F. Rabe (Kiel, Germany)

12:30 Heterogeneity of Inflammatory Pathways in COPD
Stephanie Christenson (San Francisco, United States)

12:40 The Evolving Clinical Landscape in COPD and Implications for Disease Management
Dave Singh (Manchester, United Kingdom)

13:00 Panel Discussion and Q&A
Dave Singh (Manchester, United Kingdom), Stephanie Christenson (San Francisco, United States), Klaus F. Rabe (Kiel, Germany)

Purple Session 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)

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<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:15</td>
<td>Welcome address, housekeeping, opening with interactivity</td>
<td>Stephen Holmes (Somerset, United Kingdom)</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>
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<tr>
<td>12:30</td>
<td>Discussion</td>
<td>Stephen Holmes (Somerset, United Kingdom), Job F.M. van Boven (Groningen, Netherlands), Nawar D. Bakerly (Salford, Lancashire), United Kingdom, Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)</td>
</tr>
<tr>
<td>12:35</td>
<td>Unpacking the theory – what does the data tell us?</td>
<td>Nawar D. Bakerly (Salford, Lancashire, United Kingdom)</td>
</tr>
<tr>
<td>12:45</td>
<td>Discussion</td>
<td>Stephen Holmes (Somerset, United Kingdom), Job F.M. van Boven (Groningen, Netherlands), Nawar D. Bakerly (Salford, Lancashire), United Kingdom, Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)</td>
</tr>
<tr>
<td>12:50</td>
<td>Clinical experience – what have we seen so far?</td>
<td>Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)</td>
</tr>
<tr>
<td>13:00</td>
<td>Audience Q&amp;A</td>
<td>Stephen Holmes (Somerset, United Kingdom), Job F.M. van Boven (Groningen, Netherlands), Nawar D. Bakerly (Salford, Lancashire), United Kingdom, Njira Lugogo (Durham, United States), Giselle Mosnaim (Chicago, United States)</td>
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<tr>
<td>13:10</td>
<td>Closing address, closing interactivity</td>
<td>Stephen Holmes (Somerset, United Kingdom)</td>
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### Gold Session 12:15 - 13:15

**Industry Lunchtime Symposium: Transforming asthma care for a broad population of severe asthma patients**

*Organised by AstraZeneca*

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<th>Time</th>
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<th>Speaker(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>
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<tr>
<td>12:20</td>
<td>The role of TSLP in driving severe asthma</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<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</td>
<td>Enrico Marco Heffler (Milano, Italy), Celeste Michala Porsbjerg (Copenhagen, Denmark), Michael E. Wechsler (Denver, United States), Roland Buhl (Mainz, Germany)</td>
</tr>
<tr>
<td>13:05</td>
<td>Audience Q&amp;A and close</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
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### Coral 2 Session 12:15 - 13:15

**Industry Lunchtime Symposium: Early-stage NSCLC: ensuring effective, personalised treatment through accurate diagnoses**

*Organised by AstraZeneca*

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<th>Time</th>
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<tr>
<td>12:15</td>
<td>Welcome and introduction</td>
<td>Kostas Syrigos (Athens, Greece)</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>
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<tr>
<td>Time</td>
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<tr>
<td>12:30</td>
<td>Coral 3</td>
<td>Case study 2: Optimising diagnostic workup of early-stage NSCLC</td>
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<tr>
<td>12:40</td>
<td>Coral 3</td>
<td>Case study 3: The importance and impact of accurate clinical staging of lung cancer</td>
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<tr>
<td>12:50</td>
<td>Coral 3</td>
<td>Panel discussion and Q&amp;A</td>
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**Coral 3 Session 12:15 - 13:15**

**Industry Lunchtime Symposium: Pulmonary Arterial Hypertension in the Patient with Comorbidities**

*Organised by MSD*

**Chairs:** Stephan Rosenkranz (Köln, Germany)

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<th>Time</th>
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<th>Speaker 1</th>
<th>Location 1</th>
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<tbody>
<tr>
<td>12:15</td>
<td>Outcomes in PAH patients with comorbidities</td>
<td>Marius M. Hoeper (Hannover, Germany)</td>
<td>Hannover, Germany</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>Chicago, United States</td>
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<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>Rome, Italy</td>
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<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>Bruxelles, Belgium</td>
</tr>
<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>Köln, Germany</td>
</tr>
<tr>
<td>13:00</td>
<td>Round Table Q&amp;A/discussion</td>
<td>Stephan Rosenkranz (Köln, Germany)</td>
<td>Köln, Germany</td>
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</tbody>
</table>

**Blue 1+2 Session 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)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker 1</th>
<th>Location 1</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Introduction</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
<td>Sheffield (South Yorkshire), United Kingdom</td>
</tr>
<tr>
<td>12:50</td>
<td>When the ILD patient gets more symptomatic - consider PH!</td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
<td>Heidelberg, Germany</td>
</tr>
<tr>
<td>13:10</td>
<td>PH-ILD treatment: why, who and how?</td>
<td>David Montani (Le Kremlin-Bicêtre, France)</td>
<td>Le Kremlin-Bicêtre, France</td>
</tr>
</tbody>
</table>

**Yellow 1+2+3 Session 12:45 - 13:45**

**Industry Lunchtime Symposium: Rethinking MAC lung disease treatment and care**

*Organised by Insmed*

**Chairs:** Michael Loebinger (London, United Kingdom)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker 1</th>
<th>Location 1</th>
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</thead>
<tbody>
<tr>
<td>12:45</td>
<td>Meet our expert faculty</td>
<td>Michael Loebinger (London, United Kingdom)</td>
<td>London, United Kingdom</td>
</tr>
</tbody>
</table>
### Industry Lunchtime Symposium: Anti-Inflammatory Reliever (AIR): it’s time to take action

**Organised by AstraZeneca**

**Chairs:** Christine Jenkins (McMahons Point (NSW), Australia)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 12:45 | Welcome and introduction  
Christine Jenkins (McMahons Point (NSW), Australia) |
| 12:55 | Global strategy for the prevention and management of asthma  
Eric D. Bateman (Cape Town, South Africa) |
| 13:05 | Keynote session: ICS-formoterol Anti-Inflammatory Reliever (AIR)  
Richard Beasley (Wellington, New Zealand) |
| 13:15 | Improving asthma care through implementation of the SENTINEL program: findings from the pilot site  
Michael Crooks (East Riding of Yorkshire, United Kingdom) |
| 13:25 | A call to action: time to change the SABA culture  
Alberto Papi (Cona, Ferrara, Italy) |
| 13:35 | Q&A session and close  
Christine Jenkins (McMahons Point (NSW), Australia), Eric D. Bateman (Cape Town, South Africa), Richard Beasley (Wellington, New Zealand), Michael Crooks (East Riding of Yorkshire, United Kingdom), Alberto Papi (Cona, Ferrara, Italy) |

### Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis

**Organised by FUJIFILM**

**Chairs:** Lucio Michieletto (Venice, Italy), Filippo Lanfranchi (Venice, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 14:00 | Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis  
Laura Mancino (Spinea (VE), Italy), Giuseppe Paciocco (Monza (MI), Italy) |

### Industry Skills Lab Workshop: Mucus Management with Simeox therapy in non-CF Bronchiectasis: from hospital to home

**Organised by PhysioAssist**

**Chairs:** Wojciech Piotrowski (Łódź, Poland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 14:05 | Simeox therapy in non-CF Bronchiectasis: Indications and Recommendations  
Joanna Miłkowska-Dymanowska (Łódź, Poland) |
| 14:15 | Non-CF Bronchiectasis patients treated with Simeox therapy at Hospital and Home: Results of Multicentric Study  
Aleksander Kania (Kraków, Poland) |
14:25 Importance of Mucus Clearance in Non-CF Bronchiectasis: Clinical Cases  
Vittoria Comellini (Bologna (BO), Italy)

14:35 Simeox Hands-on / Live Demonstration

Amber 7+8 Session 15:30 - 16:15
Industry Skills Lab Workshop: How to implement patient feedback in CPAP therapy  
Organised by ResMed  
Chairs: Tarja Saarensranta (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)

Amber 5+6 Session 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 (Moraga, United States)

15:30 Real evidence, real impact: Boosting commercial value with digital programs that accelerate patient and physician outcomes

Yury Rozenman (Moraga, United States), Susa Monacelli (San Diego, United States), James Hadwin (Southport (Merseyside), United Kingdom)

Amber 5+6 Session 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)

17:30 Welcome and introduction to the faculty and symposium topics  
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)

17:32 Identifying unmet needs in rare lung diseases  
Luca Richeldi (Roma, Italy)
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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<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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<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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<tr>
<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>
</tr>
<tr>
<td>18:50</td>
<td>Discussion Part II</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
</tr>
<tr>
<td>18:59</td>
<td>Summary and closing remarks</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)</td>
</tr>
</tbody>
</table>

#### Amber 7+8 Session 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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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>17:35</td>
<td>Challenges and opportunities in recognising and managing patients with ILD</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>17:50</td>
<td>ILDs: diagnostic pathways and differential diagnosis</td>
<td>Wim A. Wuyts (Leuven, Belgium)</td>
</tr>
<tr>
<td>18:05</td>
<td>Clinical evidence for the management of the rare disease ASMD</td>
<td>Maurizio Scarpa (Udine, Italy)</td>
</tr>
<tr>
<td>18:20</td>
<td>Pulmonologists perspective: management of pulmonary manifestations of the rare disease ASMD</td>
<td>Francesco Bonella (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>18:35</td>
<td>Panel discussion, Q&amp;A</td>
<td>Vincent Cottin (Lyon, France), Wim A. Wuyts (Leuven, Belgium), Maurizio Scarpa (Udine, Italy), Francesco Bonella (Düsseldorf, Germany)</td>
</tr>
</tbody>
</table>

#### Yellow 1+2+3 Session 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)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Chairman’s introduction</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
</tr>
<tr>
<td>17:40</td>
<td>LABA/LAMA combination: not just a simple bronchodilation</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
</tr>
<tr>
<td>18:05</td>
<td>Is it time for a more holistic approach in COPD?</td>
<td>Jutta Beier (Wiesbaden, Germany)</td>
</tr>
</tbody>
</table>
Coral 2 Session 17:30 - 19:00

Industry evening symposium: Climate change, infection and the airways in a post-pandemic world
Organised by Haleon
Chairs: Christopher Carlsten (Vancouver (BC), Canada)

17:30 Toxic partnership of air pollution and climate change on respiratory health
Kian Fan Chung (London, United Kingdom)

17:50 Climate Change: Changing Respiratory Health
Sundeep Santosh Salvi (Pune (Maharashtra), India)

18:10 Respiratory infections in post pandemic era
Gary Wong (Shatin, Hong Kong)

18:30 Key lessons, outstanding questions, and future directions regarding climate change, infections and respiratory health in a post-pandemic world
Christopher Carlsten (Vancouver (BC), Canada)

18:50 Q&A
Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Sundeep Santosh Salvi (Pune (Maharashtra), India), Gary Wong (Shatin, Hong Kong)

Purple Session 17:30 - 19:00

Industry evening symposium: Evolving Patient Care: From Symptom Control to On-Treatment Clinical Remission
Organised by Sanofi Regeneron
Chairs: Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

17:30 Welcome
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

17:35 Presentation of Patient Cases
Vibeke Backer (Copenhagen, Denmark)

17:40 Advancing Asthma Management Beyond Symptom Control
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

17:55 Panel Discussion
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Vibeke Backer (Copenhagen, Denmark), Francesca Antonietta Puggioni (Rozzano (MI), Italy)

18:05 How Achievable is Clinical Remission on Biologic Therapy?
Francesca Antonietta Puggioni (Rozzano (MI), Italy)

18:25 Panel Discussion and Mini-debate
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Vibeke Backer (Copenhagen, Denmark), Francesca Antonietta Puggioni (Rozzano (MI), Italy)

18:40 Type 2 Biomarkers as Predictive and Prognostic Tools to Guide Management
Vibeke Backer (Copenhagen, Denmark)

18:48 Panel Discussion and Q&A
Vibeke Backer (Copenhagen, Denmark), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Francesca Antonietta Puggioni (Rozzano (MI), Italy)
**Coral 1**  
**Session 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?  
    Alberto Papi (Cona, Ferrara, Italy), Mine Durusu-Tanriover (Ankara, Turkey), George Kassianos (London, United Kingdom), Carl Heinz Wirsing von König (Cologne, Germany)

  - 07:30 Panel Discussion: The coughing adult: is pertussis a consideration?  
    Alberto Papi (Cona, Ferrara, Italy), Mine Durusu-Tanriover (Ankara, Turkey), George Kassianos (London, United Kingdom), Carl Heinz Wirsing von König (Cologne, Germany)

  - 07:40 Panel Discussion: Epidemiological data on pertussis in adults: a chicken and egg conundrum?  
    Alberto Papi (Cona, Ferrara, Italy), Mine Durusu-Tanriover (Ankara, Turkey), George Kassianos (London, United Kingdom), Carl Heinz Wirsing von König (Cologne, Germany)

  - 07:50 Panel Discussion: Adult immunisation for pertussis control: what are the challenges?  
    Alberto Papi (Cona, Ferrara, Italy), Mine Durusu-Tanriover (Ankara, Turkey), George Kassianos (London, United Kingdom), Carl Heinz Wirsing von König (Cologne, Germany)

- **08:00** Audience Q&A  
  Alberto Papi (Cona, Ferrara, Italy), Mine Durusu-Tanriover (Ankara, Turkey), George Kassianos (London, United Kingdom), Carl Heinz Wirsing von König (Cologne, Germany)

**Coral 2**  
**Session 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  
    Doreen Addrizzo-Harris (New York, United States), Stefano Aliberti (Milano (MI), Italy), Pieter Goeminne (Bornem, Belgium)

**Amber 7+8**  
**Session 08:00 - 08:45**

**Industry Skills Lab Workshop: News on Nasal High Flow for chronic diseases**  
*Organised by FISHER&PAYKEL SAS - FRANCE*

**Chairs:** Aline DOSSO

- **08:00** Hands On

**Amber 5+6**  
**Session 10:30 - 11:15**

**Industry Skills Lab Workshop: Interpretation of the Cardiopulmonary Exercise Test**  
*Organised by Vyaire Medical GmbH*

**Chairs:** Herman Groepenhoff (Lijnden, Netherlands)
### Amber 7+8 Session 10:30 - 11:15

**Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis**

*Organised by FUJIFILM*

**Chairs**: Andrea Claudio Comel (Peschiera del Garda (VR), Italy)

10:30

- **Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis**
  - Filippo Lanfranchi (Venice, Italy), Laura Mancino (Spinea (VE), Italy), Giuseppe Paciocco (Monza (MI), Italy)

### Coral 2 Session 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**
  - Susanna Esposito (Milano (MI), Italy), Francesco Blasi (Milan, Italy), Mark van der Linden (Aachen, Germany)

### Coral 3 Session 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**
  - John R Hurst (London, United Kingdom), Helen Reddel (Sydney, Australia), Christine Jenkins (McMahons Point (NSW), Australia), Alberto Papi (Cona, Ferrara, Italy), Omar S. Usmani (London, United Kingdom)

### Yellow 1+2+3 Session 12:45 - 13:45

**Industry Lunchtime Symposium: Breathing new life into acute respiratory care: proactively improving long-term outcomes**

*Organised by AstraZeneca*
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>12:45</td>
<td><strong>Welcome and introduction</strong></td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>12:55</td>
<td><strong>Panel discussion: How can we address the burden of unplanned hospitalisations?</strong></td>
<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
</tr>
<tr>
<td>13:10</td>
<td><strong>Panel discussion: How can we integrate learnings from cardiology to improve hospital discharge and prevent readmission?</strong></td>
<td>Mohit Bhutani (Edmonton (AB), Canada)</td>
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<tr>
<td>13:25</td>
<td><strong>Panel discussion: Beyond acute care: how can we optimise transition of care?</strong></td>
<td>David Price (Singapore, Singapore)</td>
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<tr>
<td>13:40</td>
<td><strong>Summary and close</strong></td>
<td>David Price (Singapore, Singapore)</td>
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<tr>
<td>12:45</td>
<td><strong>What is missing on UIP management, Do we need to improve diagnosis, prognosis or both ?</strong></td>
<td>Athol Wells (London, United Kingdom)</td>
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<tr>
<td>13:00</td>
<td><strong>Moving ahead to less invasive procedures on ILD diagnosis</strong></td>
<td>Luca Richeldi (Roma, Italy)</td>
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<tr>
<td>13:15</td>
<td><strong>New MDT management of ILDs incorporating molecular diagnosis</strong></td>
<td>Maria Molina Molina (Barcelona, Spain)</td>
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<tr>
<td>13:30</td>
<td><strong>Joined discussion and Q&amp;A</strong></td>
<td>Athol Wells (London, United Kingdom), Maria Molina Molina (Barcelona, Spain), Luca Richeldi (Roma, Italy)</td>
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**Industry Skills Lab Workshop: East meets West - global best practices**

*Organised by Erbe Elektromedizin GmbH*

**Chairs:** Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)

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<tbody>
<tr>
<td>14:00</td>
<td><strong>Hands on</strong></td>
<td>Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)</td>
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<tr>
<td>14:00</td>
<td><strong>EBUS-TBNA: Handling all procedure steps safely and efficiently</strong></td>
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<td>14:00</td>
<td><strong>Peripheral bronchoscopy: Plan, access and identify peripheral lesions for successful sampling</strong></td>
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<td>14:00</td>
<td><strong>Emphysema and air leak treatment with EVIS X1: Elevating the standard of therapeutic interventions</strong></td>
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<tr>
<td>14:00</td>
<td><strong>Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity</strong></td>
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**Industry Skills Lab Workshop: Nasal High Flow : New interface experience.**

*Organised by FISHER&PAYKEL SAS - FRANCE*

**Chairs:** Aline DOSSO
15:30 Hands On
Industry Wednesday Special Session: Healthy lungs means healthy people? – we must do more!

Organised by AstraZeneca

Aims: to explore the concept of good lung health and discuss the importance of advancing this in clinical practice; to highlight the importance of identifying cardiopulmonary risk in patients with COPD and discuss ways to holistically manage these patients; to discuss opportunities to demonstrate improvements in the future of respiratory care.

Chairs: Alberto Papi (Cambridge (Cambridgeshire), United Kingdom), Christine Jenkins (McMahons Point (NSW), Australia)

09:00 Co-Chairs’ welcome
Alberto Papi (Cona, Ferrara, Italy), Christine Jenkins (McMahons Point (NSW), Australia)

09:05 Defining trajectories of good lung health – how do we get everyone on track?
James Allinson (London, United Kingdom)

09:20 Panel discussion and Q&A | Towards good lung health – what do we do now?
Alberto Papi (Cona, Ferrara, Italy), Christine Jenkins (McMahons Point (NSW), Australia), James Allinson (London, United Kingdom), Mona Bafadhel (London, United Kingdom), Janwillem W. H. Kocks (Groningen, Netherlands), Tonya Winders (Hendersonville, United States)

09:35 COPD: it’s not just about the lungs!
Mona Bafadhel (London, United Kingdom)

09:50 Panel discussion and Q&A | How can we improve the management of COPD to reduce cardiopulmonary risk?
Alberto Papi (Cona, Ferrara, Italy), Christine Jenkins (McMahons Point (NSW), Australia), James Allinson (London, United Kingdom), Mona Bafadhel (London, United Kingdom), Janwillem W. H. Kocks (Groningen, Netherlands), Tonya Winders (Hendersonville, United States)

10:05 Summary and closing remarks
Alberto Papi (Cambridge (Cambridgeshire), United Kingdom), Christine Jenkins (McMahons Point (NSW), Australia)
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<td>PAPI A.</td>
<td>PARK D.</td>
<td>PATAKA A.</td>
<td>PATOUT M.</td>
<td>PEDERSEN E.</td>
<td>PENNATI F.</td>
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<td>PERCH M.</td>
<td>PEREIRA CATARATA M.</td>
<td>PETRARCA L.</td>
<td>PICCARI L.</td>
<td>PIETERSEN P.</td>
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