<table>
<thead>
<tr>
<th>Session 2</th>
<th>09:30 - 11:00</th>
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<tbody>
<tr>
<td>Public: Opening press conference for Breathe Clean Air Milan</td>
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<table>
<thead>
<tr>
<th>Session 3</th>
<th>11:00 - 19:00</th>
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</thead>
<tbody>
<tr>
<td>Public: Healthy Lungs for Life: Clean Air Milan</td>
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</table>

**Aims:** To promote the importance of clean air for lung health, and offer spirometry to the public.
Silver Session 4 08:00 - 19:30

OSCE examination : Thoracic ultrasound training programme Part 3 - OSCE examination - by invitation only

Aims: By invitation ONLY

Tag(s): Clinical

Chairs: Christian B. Laursen (Odense, Denmark), Najib M. Rahman (ABINGDON, United Kingdom), Jouke T. Annema (Amsterdam, Netherlands), Rahul Bhatnagar (Bristol, United Kingdom), Pia Iben Pietersen (Odense C, Denmark), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Lars Konge (Virum, Denmark), Nick Maskell (Bristol (Avon), United Kingdom), Illaa Smesseim (Hoofddorp, Netherlands)

08:00 TUS Part 3 OSCE examination : Round 1
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)

09:05 TUS Part 3 OSCE examination : Round 2
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)

10:10 TUS Part 3 OSCE examination : Round 3
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)

11:15 TUS Part 3 OSCE examination : Round 4
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)

12:20 TUS Part 3 OSCE examination : Round 5
Jouke T. Annema (Amsterdam, Netherlands), Najib M. Rahman (ABINGDON, United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom), Anders Bo Nielsen (Odense C, Denmark), Beenis Iqbal (Oxford, United Kingdom)

13:40 TUS Part 3 OSCE examination : Round 6
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)

14:50 TUS Part 3 OSCE examination : Round 7
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)

16:00 TUS Part 3 OSCE examination : Round 8
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)

17:10 TUS Part 3 OSCE examination : Round 9
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)

18:20 TUS Part 3 OSCE examination : Round 10
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)

Purple Session 5 08:00 - 18:00

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

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

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

**Studio (White)**

**Session 6** 08:30 - 08:45

**News from the studio: Welcome from chairs**
**Chairs:** Nicolas Roche (Paris, France), Richard Costello (Dublin 9, Ireland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Blue 1+2**

**Session 7** 09:00 - 11:10

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

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

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

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Welcome and introduction</td>
<td>All Speakers</td>
</tr>
<tr>
<td>09:10</td>
<td>Focused cardiac ultrasound (FoCUS)</td>
<td>Casper Falster (Odense, Denmark)</td>
</tr>
<tr>
<td>09:40</td>
<td>Limited compression ultrasonography (LCU) of the deep veins for DVT assessment</td>
<td>Casper Falster (Odense, Denmark)</td>
</tr>
</tbody>
</table>
### Amber 3+4  
**Session 9**  
09:00 - 10:00

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

**Tag(s):** Clinical

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

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

### No Room  
**Session 10**  
09:00 - 18:00

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

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

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

**Language session: Chinese Programme 2023**

**ERS/CTS joint session**

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

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

**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)

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

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

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

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

**Aims:** to present some strategies for fighting tobacco addiction and negative environmental changes affecting respiratory health from different perspectives related to primary health care.
**Postgraduate course: PG6 Mediastinal staging: The what and the how**

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

**Disease(s):** Thoracic oncology

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

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

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

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<th>Time</th>
<th>Session</th>
<th>Speaker/Location</th>
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<tr>
<td>09:30</td>
<td>Pathophysiology and molecular biology in the formation of locoregional lymph node metastases</td>
<td>Speaker to be confirmed</td>
<td>49</td>
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<tr>
<td>09:50</td>
<td>Case discussion: pathophysiology and molecular biology in the formation of locoregional lymph node metastases</td>
<td>Speaker to be confirmed</td>
<td>50</td>
</tr>
<tr>
<td>10:10</td>
<td>Novel imaging and sampling techniques</td>
<td>Georgia Hardavella (Athens, Greece)</td>
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<tr>
<td>10:30</td>
<td>Case discussion: novel imaging and sampling techniques</td>
<td>Georgia Hardavella (Athens, Greece)</td>
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<tr>
<td>10:50</td>
<td>Break</td>
<td></td>
<td>53</td>
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<tr>
<td>11:20</td>
<td>Optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
<td>54</td>
</tr>
<tr>
<td>11:40</td>
<td>Case discussion: optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
<td>55</td>
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<tr>
<td>12:00</td>
<td>Single and multistation N2 disease: the thoracic surgeon's view</td>
<td>Stefano Elia (Roma (RM), Italy)</td>
<td>56</td>
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<tr>
<td>12:15</td>
<td>Single and multistation N2 disease: the radiotherapist/clinical oncologist's view</td>
<td>Sara Ramella (Roma (RM), Italy)</td>
<td>57</td>
</tr>
</tbody>
</table>
**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

**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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<th>Time</th>
<th>Session</th>
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<tr>
<td>09:30</td>
<td>Diagnosis of asthma</td>
<td>Renaud Louis (Liège, Belgium)</td>
<td>60</td>
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<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<tr>
<td>10:00</td>
<td>Assessing and monitoring asthma and its phenotypes</td>
<td>Stylianos Loukides (Athens, Greece)</td>
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<tr>
<td>10:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<tr>
<td>10:30</td>
<td>Pharmacological treatment and current controversies</td>
<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
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<tr>
<td>10:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>65</td>
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<tr>
<td>11:00</td>
<td>Comorbidities in asthma</td>
<td>Florence Schleich (Liège, Belgium)</td>
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<tr>
<td>11:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<tr>
<td>11:30</td>
<td>Break</td>
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<td>68</td>
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<tr>
<td>12:00</td>
<td>Interactive cases by early career members</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>
<td>69</td>
</tr>
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**Postgraduate course: PG5 The use of lung function in early detection of disease**

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

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

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

**Tag(s):** Clinical

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

**Chairs:** Frits M.E. Franssen (Horn, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands)
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<tr>
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<tr>
<td>09:30</td>
<td><strong>The e-nose: screening the future?</strong>&lt;br&gt;Karen Moor (Rotterdam, Netherlands)</td>
<td>70</td>
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<tr>
<td>09:50</td>
<td><strong>The E-nose: group assignment</strong>&lt;br&gt;Karen Moor (Rotterdam, Netherlands)</td>
<td>71</td>
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<tr>
<td>10:15</td>
<td><strong>Forced oscillation in telemonitoring: early detection of acute exacerbation of chronic obstructive pulmonary disease</strong>&lt;br&gt;Sabine Zimmermann (München, Germany)</td>
<td>72</td>
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<tr>
<td>10:35</td>
<td><strong>Forced oscillation in telemonitoring: group assignment</strong>&lt;br&gt;Sabine Zimmermann (München, Germany)</td>
<td>73</td>
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<tr>
<td>10:45</td>
<td>Break</td>
<td>74</td>
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<tr>
<td>11:30</td>
<td><strong>Spirometry in atrial fibrillation: what's the catch?</strong>&lt;br&gt;Jennifer Quint (Wimbledon, United Kingdom)</td>
<td>75</td>
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<tr>
<td>11:50</td>
<td><strong>Spirometry in Atrial Fibrillation: group assignment</strong>&lt;br&gt;Jennifer Quint (Wimbledon, United Kingdom)</td>
<td>76</td>
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<tr>
<td>12:15</td>
<td><strong>Artificial intelligence: early recognition of disease patterns</strong>&lt;br&gt;Wim Janssens (Leuven, Belgium)</td>
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</tr>
<tr>
<td>12:35</td>
<td><strong>Artificial Intelligence: group assignment</strong>&lt;br&gt;Wim Janssens (Leuven, Belgium)</td>
<td>78</td>
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</tbody>
</table>

**Brown 1+2**  
**Session 16 09:30 - 13:00**

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

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

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

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

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

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

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

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<tr>
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<tr>
<td>09:30</td>
<td><strong>Overview of lung aging</strong>&lt;br&gt;Silke Meiners (Sülfeld, Germany)</td>
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</tr>
<tr>
<td>09:45</td>
<td><strong>Discussion and Q&amp;A</strong>&lt;br&gt;All Speakers</td>
<td>80</td>
</tr>
<tr>
<td>09:55</td>
<td><strong>The pros and cons of cellular senescence</strong>&lt;br&gt;Serge Adnot (Creteil, France)</td>
<td>81</td>
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<tr>
<td>10:10</td>
<td><strong>Discussion and Q&amp;A</strong>&lt;br&gt;All Speakers</td>
<td>82</td>
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<td>10:20</td>
<td><strong>The epigenetic clock: a reprogrammable biomarker of ageing</strong>&lt;br&gt;Ken Raj (, United Kingdom)</td>
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<tr>
<td>10:35</td>
<td><strong>Discussion and Q&amp;A</strong>&lt;br&gt;All Speakers</td>
<td>84</td>
</tr>
<tr>
<td>10:45</td>
<td><strong>Telomeres and DNA damage</strong>&lt;br&gt;Jonathan Baker (London, United Kingdom)</td>
<td>85</td>
</tr>
</tbody>
</table>
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

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

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

09:30 **Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation?**  
Fida Charif (Beirut, Lebanon)

09:50 **Discussion and Q&A**  
All Speakers

10:00 **Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE?**  
David Jiménez Castro (Madrid, Spain)

10:20 **Discussion and Q&A**  
All Speakers

10:30 **Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop?**  
Anna Falanga (Bergamo, Italy)

10:50 **Discussion and Q&A**  
All Speakers

11:00 **Do all patients with cancer thrombosis have the same risk of bleeding and recurrence? Particularities of lung cancer**  
Laurent Bertoletti (Saint Etienne Cedex, France)

11:20 **Discussion and Q&A**  
All Speakers

11:30 **Break**
### 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

**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)

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

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Residual sleepiness in continuous positive airway pressure-treated patients: a clinical approach</td>
<td>Esther Irene Schwarz (Zürich, Switzerland)</td>
<td>103</td>
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<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>104</td>
</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>
<tr>
<td>10:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>106</td>
</tr>
<tr>
<td>10:30</td>
<td>Sleep-disordered breathing and cancer: impact on treatment decision?</td>
<td>Manuel Sanchez De La Torre (Lleida, Spain)</td>
<td>107</td>
</tr>
<tr>
<td>10:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>108</td>
</tr>
<tr>
<td>11:00</td>
<td>Telemedicine for SDB diagnosis, treatment and follow-up</td>
<td>Johan Verbraecken (Edegem (Antwerp), Belgium)</td>
<td>109</td>
</tr>
<tr>
<td>11:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>110</td>
</tr>
<tr>
<td>11:30</td>
<td>Break</td>
<td></td>
<td>111</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>
<td>112</td>
</tr>
</tbody>
</table>

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

**Case-based skills workshop: Academy of paediatric respiratory medicine - Round 2 workshops**

**Tag(s):** Clinical

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

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

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

**Patient: ELF Patient Organisation Networking Day - by invitation only**
### Aims
By invitation only

### Target audience
Patient

### Chairs
Kjeld Hansen (Oslo, Norway), Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland), Hilde de Keyser (Brussels, Belgium)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Welcome</td>
<td>Kjeld Hansen (Oslo, Norway), Hilde de Keyser (Brussels, Belgium)</td>
</tr>
<tr>
<td>10:55</td>
<td>ERS President Address</td>
<td>Carlos Robalo Cordeiro (Coimbra, Portugal), Monika Gappa (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>11:05</td>
<td>Introduction to session: Patient and public involvement in research</td>
<td>Hilde de Keyser (Brussels, Belgium)</td>
</tr>
<tr>
<td>11:10</td>
<td>Keynote: Patient involvement in setting research priorities – the European Multicentre Bronchiectasis Audit and Research Collaboration experience</td>
<td>Michal Shteinberg (Haifa, Israel)</td>
</tr>
<tr>
<td>11:30</td>
<td>Patient involvement in setting research priorities using a patient journey approach</td>
<td>Anke Widenmann (Stuttgart, Germany)</td>
</tr>
<tr>
<td>11:40</td>
<td>Co-design of a secondary prevention and research project for Sleep Apnoea with input from patients, health associations and health professionals</td>
<td>Luca Roberti (Rome, Italy)</td>
</tr>
<tr>
<td>11:50</td>
<td>Panel discussion and question and answer</td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:00</td>
<td>Introduction to session: Mental health and lung disease</td>
<td>Liam Galvin (Thurles, Ireland)</td>
</tr>
<tr>
<td>12:10</td>
<td>Keynote: Mental Health and Respiratory Disease: Chronic Obstructive Pulmonary Disease as prime example</td>
<td>Andreas Von Leupoldt (Leuven, Belgium)</td>
</tr>
<tr>
<td>12:20</td>
<td>Lunch break</td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:30</td>
<td>Living with pulmonary arterial hypertension: navigating challenges and promoting adjustment</td>
<td>Natalia Maeva (Sofia, Bulgaria)</td>
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<tr>
<td>12:40</td>
<td>Breathing together: an online support group for people with bronchiectasis</td>
<td>Francesco Pagnini (Italy)</td>
</tr>
<tr>
<td>13:00</td>
<td>Panel discussion and question and answer</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:10</td>
<td>Interactive breakout group discussion</td>
<td>Kjeld Hansen (Oslo, Norway)</td>
</tr>
<tr>
<td>13:20</td>
<td>Plenary</td>
<td>Kjeld Hansen (Oslo, Norway), Hilde de Keyser (Brussels, Belgium)</td>
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<td>Interactive breakout group discussion</td>
<td>Mikaela Odemyr (Järved, Sweden)</td>
</tr>
<tr>
<td>15:20</td>
<td>Plenary</td>
<td>Mikaela Odemyr (Järved, Sweden), Liam Galvin (Thurles, Ireland)</td>
</tr>
<tr>
<td>15:30</td>
<td>Welcome to ELF Chair Elect and closing words</td>
<td>Kjeld Hansen (Oslo, Norway), Dimitris Kontopidis (Greece)</td>
</tr>
</tbody>
</table>

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

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

*Tag(s):* Clinical

*Chairs:* Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)
11:00  **Endoscopy**  
Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)  
[141]

11:00  **Lung function tests**  
Nicolas Regamey (Lucerne, Switzerland), Angela Zacharasiewicz (Wien, Austria)  
[142]

11:00  **Imaging and ultrasound**  
Meinrad Beer (Ulm, Germany), Carolina Casini (Roma (RM), Italy)  
[143]

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

**Postgraduate course: PG1 Thoracic Ultrasound: Session II**  
**Thoracic ultrasound in specific clinical settings**

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

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

**Chairs:**  
Søren Helbo Skaarup (Aarhus C, Denmark), Radhika Banka (Mumbai (Maharashtra), India)

11:10  **Use of thoracic ultrasound in an intensive care unit**  
Silvia Mongodi (Pavia, Italy)  
[144]

11:40  **Use of thoracic ultrasound in an interstitial lung disease clinic**  
Jesper Rømhild Davidsen (Odense C, Denmark)  
[145]

12:10  **Lunch break**  
[146]

12:40  **Use of evidence-based training principles in thoracic ultrasound in a department**  
Pia Iben Pietersen (Odense C, Denmark)  
[147]

13:10  **Interactive case discussion session II**  
All Speakers  
[148]

13:30  **Coffee break**  
[149]

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### Coral 4+5  
Session 25  
**11:15 - 12:45**

**Primary care session: Conditions we are just dealing with the tip of the iceberg in primary care**  
Frequently mismanaged conditions in primary health care

**Aims:**  
To discuss possible actions to improve management of frequently forbidden conditions in primary health care; to provide general practitioners and primary care professionals with easy tools and strategies to diagnose and manage sleep apnoea, chronic cough and interstitial lung diseases; to reduce the burden of antibiotic resistance.

**Disease(s):**  
- Interstitial lung diseases  
- Respiratory infections  
- Sleep and breathing disorders

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

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

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

11:15  **Obstructive sleep apnoea. Easy to identify and diagnose in primary care settings**  
Cláudia Sofia De Almeida Vicente Ferreira (Coimbra, Portugal)  
[150]

11:30  **Chronic cough. New algorithms to deal with this common condition**  
Imran Satia (Hamilton, Canada)  
[151]

11:45  **The importance of primary care in curbing antibiotic resistance**  
Oliver Van Hecke (Oxford, United Kingdom)  
[152]

12:00  **Interstitial lung disease. Never forget to think about it in primary care**  
Maria Molina Molina (Barcelona, Spain)  
[153]

12:15  **Discussion and Q&A**  
All Speakers  
[154]

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### Studio (White)  
Session 26  
**11:15 - 12:45**

**Language session: French programme 2023**  
A joint ERS/SPLF session

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25.07.2023
Aims: This session will be delivered in French and translated in English.

Disease(s): Respiratory infections  Thoracic oncology

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Respiratory critical care physician, Physiologist, Scientist (basic, translational), Thoracic oncologist

Chairs: Jesus Gonzalez Bermejo (Montlignon, France), Thomas Gille (Bobigny, France)

11:15 Comité d'Orientation Stratégique et d'Engagement (COSE) de la SPLF / SPLF Strategic Orientation and Commitment Committee (COSE)
Chantal Raherson-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
All Speakers

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

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

12:30 Discussion and Q&A
All Speakers

Amber 3+4  Session 28  13:00 - 13:45
Case-based skills workshop: Academy of paediatric respiratory medicine - Round 4 workshops

Tag(s): Clinical

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

13:00 Bronchial asthma and wheezing disorders
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)

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

13:00 Sleep disorders
Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)

Coral 4+5  Session 30  13:15 - 14:45
Language session: Italian programme 2023

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

Disease(s): Airway diseases Interstitial lung diseases

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

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

Chairs: Mauro Carone (Bari, Italy), Carlo Vancheri (Catania (CT), Italy), Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy)
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<th>Session</th>
<th>Topic</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>13:15</td>
<td></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></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></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></td>
<td>Utilita' e impatto ambientale dei dispositivi monouso in pneumologia interventistica / Utility and environmental impact of single-use devices in interventional pulmonology</td>
<td>Lina Zuccatosta (Torrette (AN), Italy)</td>
</tr>
<tr>
<td>13:40</td>
<td>Session 31</td>
<td>Advanced thoracic ultrasound</td>
<td>Eihab Bedawi (Sheffield, United Kingdom)</td>
</tr>
<tr>
<td>14:10</td>
<td></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></td>
<td>Interactive case discussion session III</td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:00</td>
<td></td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>13:45</td>
<td>Session 33</td>
<td>Case-based skills workshop: Academy of paediatric respiratory medicine - Round 5 workshops</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>13:45</td>
<td></td>
<td>Bronchial asthma and wheezing disorders</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Louise Fleming (London, United Kingdom)</td>
</tr>
<tr>
<td>13:45</td>
<td></td>
<td>Non-CF bronchiectasis</td>
<td>Ernst Eber (Graz, Austria), Fabio Midulla (Roma (RM), Italy)</td>
</tr>
<tr>
<td>13:45</td>
<td></td>
<td>Sleep disorders</td>
<td>Refika Hamutcu Ersu (Ottawa, Canada), Athanasios G. Kaditis (Athens, Greece)</td>
</tr>
<tr>
<td>14:00</td>
<td>Session 34</td>
<td>Postgraduate course: PG9 How to improve the success of noninvasive respiratory support therapies</td>
<td>João Carlos Winck (Vila Nova de Gaia, Portugal), Claudia Crimi (Catania (CT), Italy)</td>
</tr>
</tbody>
</table>

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

*Tag(s):* Clinical

*Method(s):* General respiratory patient care, Pulmonary rehabilitation, Sleep and breathing disorders

*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)
### Coral 3  
Session 35  
**14:00 - 17:30**

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

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

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

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

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<thead>
<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Diagnosis of COPD</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
</tr>
<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:30</td>
<td>Assessing and monitoring COPD and its phenotypes</td>
<td>Mei Lan K. Han (Ann Arbor, United States)</td>
</tr>
<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:00</td>
<td>Pharmacological treatment and current controversies</td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
</tr>
<tr>
<td>15:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</tbody>
</table>
### Session 36: 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)

**Timeline:**

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>Introduction</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:10</td>
<td><strong>The Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia (REMAP-CAP)</strong></td>
<td>Lennie P. G. Derde (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>14:35</td>
<td><strong>POS-VAP: implementation of clinical trials on VAP through an appropriate and flexible infrastructure</strong></td>
<td>Ana Catalina Hernandez Padilla (Limoges, France)</td>
</tr>
<tr>
<td>14:55</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>The management of respiratory infections in primary care: POS-ARI-PC</strong></td>
<td>Christopher Butler (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>15:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:25</td>
<td><strong>The lessons learned from COVID-19 pandemic: how to get prepared for the future</strong></td>
<td>Herman Goossens (Edegem (Antwerp), Belgium)</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>15:50</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td>16:20</td>
<td><strong>Group assignment: How to get a successful European project on respiratory infections</strong></td>
<td>Lennie P. G. Derde (Utrecht, Netherlands), Christopher Butler (Oxford (Oxfordshire), United Kingdom), Herman Goossens (Edegem (Antwerp), Belgium), Ana Catalina Hernandez Padilla (Limoges, France)</td>
</tr>
</tbody>
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### Session 37: Postgraduate course: PG11 Cryotherapy in the paediatric airway

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

**Timeline:**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
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<td>Ana Catalina Hernandez Padilla (Limoges, France)</td>
</tr>
<tr>
<td>14:55</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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<tr>
<td>15:00</td>
<td><strong>The management of respiratory infections in primary care: POS-ARI-PC</strong></td>
<td>Christopher Butler (Oxford (Oxfordshire), United Kingdom)</td>
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<tr>
<td>15:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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<tr>
<td>15:25</td>
<td><strong>The lessons learned from COVID-19 pandemic: how to get prepared for the future</strong></td>
<td>Herman Goossens (Edegem (Antwerp), Belgium)</td>
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<td>15:45</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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<tr>
<td>15:50</td>
<td><strong>Break</strong></td>
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<tr>
<td>16:20</td>
<td><strong>Group assignment: How to get a successful European project on respiratory infections</strong></td>
<td>Lennie P. G. Derde (Utrecht, Netherlands), Christopher Butler (Oxford (Oxfordshire), United Kingdom), Herman Goossens (Edegem (Antwerp), Belgium), Ana Catalina Hernandez Padilla (Limoges, France)</td>
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ERS International Congress 2023

DETAILED PROGRAMME

SATURDAY 09 SEPTEMBER, 2023
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

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

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

14:00 New advantages in paediatric interventional bronchoscopy: cryotherapy
Alfin Vicencio (New York, United States) 216

14:20 Foreign body removal by means of cryocatheters
Rhia Shah (New York City, United States) 217

14:40 Restoration of airway patency: indication and technique
Erik B. Hysinger (Cincinnati, United States) 218

15:00 Navigation of the probe: differences due to different probe sizes
Sarabon Tahura (Dhaka, Bangladesh) 219

15:20 Break 220

15:50 Group assignment: Cryotherapy in paediatric airway
Alfin Vicencio (New York, United States), Sarabon Tahura (Dhaka, Bangladesh), Rhia Shah (New York City, United States), Erik B. Hysinger (Cincinnati, United States) 221

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

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

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

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

Method(s): Physiology Pulmonary function testing Pulmonary rehabilitation

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

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

14:00 The pulmonary gas exchange response to exercise in health and disease
Paolo Palange (Rome, Italy) 222

14:20 Discussion and Q&A
All Speakers 223

14:30 Respiratory mechanics and exertional dyspnoea in health and disease
Michele Schaeffer (Leuven, Belgium) 224

14:50 Discussion and Q&A
All Speakers 225

15:00 Group assignment: Advanced cardiopulmonary exercise testing
Paolo Palange (Rome, Italy), Michele Schaeffer (Leuven, Belgium), Pierantonio Laveneziana (Paris, France) 226

15:30 Break 227

16:00 Modalities available for assessing the exercise response and exercise rehabilitation
Sally J. Singh (Leicester (Leicestershire), United Kingdom) 228

16:20 Discussion and Q&A
All Speakers 229
16:30  Exercise testing in children with respiratory diseases  
Erik H. J. Hulzebos (Utrecht, Netherlands)  

16:50  Discussion and Q&A  
All Speakers  

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

**Session 39  14:00 - 17:30**  
Postgraduate course: PG13 The joy and challenges of diagnosing interstitial lung diseases  
ILD diagnosis 2023  

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

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

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

**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 Wälshler (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. Wijsenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France), Lauren Troy (Camperdown (NSW), Australia), Julia Wälshler (Essen, Germany), Nicola Sverzellati (Parma (PR), Italy)  

**Session 41  14:45 - 15:30**  
Case-based skills workshop: Academy of paediatric respiratory medicine - Round 6 workshops  

**Tag(s):** Clinical  

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

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

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 42  15:10 - 17:00

Postgraduate course: PG1 Thoracic Ultrasound: Session IV
Advanced ultrasound guided procedures

Disease(s): Interstitial lung diseases  Thoracic oncology

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)  249

15:35  Ultrasound guided biopsy of lymph nodes
       Anand Sundaralingam (Oxford, United Kingdom)  250

16:00  Break  251

16:10  Ultrasound guided biopsy of the lung

16:35  TUS for advanced procedure guidance
       Steven Walker (Bristol (Avon), United Kingdom)  252

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

Language session:  Spanish/Portuguese programme 2023
Biological therapy in respiratory diseases. A joint ERS/ALAT/SBPT/SEPAR/SPP session

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

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

Method(s): General respiratory patient care

Tag(s): Clinical

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

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

15:15  Biological therapy for severe asthma
       Ignacio Zabert (Neuquén, Argentina)  254

15:30  Lung cancer: recent therapeutic advances
       Margarida Carmo de Pinho Dias (Vila Nova de Gaia, Portugal)  255

15:45  Role of biological therapy for chronic obstructive pulmonary disease
       Fco.De Borja Garcia-Cosio Piqueras (Palma de Mallorca, Spain)  256

16:00  Biologic treatments for interstitial lung diseases
       Bruno Guedes Baldi (São Paulo (SP), Brazil)  257

16:15  Discussion and Q&A
       All Speakers  258
Skills workshop: SW1 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)

08:00 Introduction
All Speakers

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)
PS-1 in poster area
Session 52
08:00 - 09:30
Poster session: Emerging evidence in COVID-19

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

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

**Tag(s):** Clinical

**Chairs:** Chair to be confirmed

**PA283**
COVID-19 and pregnancy: experience of observations in the city perinatal center in 2021-2022 years
Nataliia Kravchenko (Dnipro, Ukraine), Hanna Harahulia, Olha Cherkasova, Ludmila Havrysh, Kateryna Kaira

**PA284**
Improved dyspnea, fatigue, respiratory and peripheral muscle strength, exercise capacity, and quality of life after exercise training in post-COVID-19
Deniz Inal-Ince (Ankara, Turkey), UKBE Sirayder, Busra Kepenek-Varol, Cihangir Acik

**PA285**
COVID 19 pneumonia in young subject: what’s special?
Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen ketata, Wafa Medi, Rahma Sellami, Racem Ammar, Hamida Kwas

**PA286**
Correlation of clinical, radiological outcomes and novel KL-6 biomarker levels in COVID-19 survivors one year post-ICU
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Audrey Chirumberro, Stephanie Andre, Alain Roman, Marc Claus, Anne-Violette Bruyneel, Stephane Alard, Frederic Cotton

**PA287**
Follow-up of COVID-19 survivors: 3 years after
NADA Boutbagha (Agadir, Morocco), Abdellkarim Khannous, Fatiha Bounoua, Sofia Farhat, Hannane Ikrou, Younes Essaid, Aboubaker Imzil, Oussama Halloumi, Khadija Attmasser, Abdelmajid Oulahbib, Houssame Ennaceri, Houda Moubachir, Hind Serhane

**PA288**
Impact of hospitalization for COVID-19 on attitude toward vaccination: Experience of a French hospital
Geoffroy Mery (Grenoble, France), Anne Conrad, Amandine Viccica, Marie Simon, Pierre Pradat, Jean-Christophe Richard, Florence Ader, Gilles Devouassoux

**PA289**
Small airways obstruction is present in Covid-19 pneumonia’s acute period.
Immanuels Taivans (Riga, Latvia), Gunta Straida, Normunds Jurka, Valentina Gordjushina

**PA290**
Attitude And Behavior Of Healthcare Workers And General Public Towards SARS-CoV-2 Vaccination After The Rollout Of COVID-19 Vaccines
Raza Ullah (Peshawar, Pakistan), Shahida Naz, Haleem Gul Janan

**PA291**
Oxygenation Parameters as Predictors of Clinical Outcomes in Moderate Covid-19 Infection: A Retrospective Cohort Study
Eliezer James Aguila (Pasig, Philippines), Tim Trinidad

**PA292**
Two years mortality in patients with impaired glucose tolerance after COVID-19 pneumonia
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov

**PA293**
Factors associated with poor prognosis and increased costs in COVID-19 pneumonia
Nikolay Kyuchukov (Pleven, Bulgaria), Zlatina Ivanova, Yavor Ivanov

**PA294**
SARS-CoV-2 pneumonia: contribution of the PSI score in the prediction of hospital mortality
Hend Ouertani (Tunis, Tunisia), Haifa Zaibi, Khouloud Chaabi, Emna Ben Jemia, Jihen Ben Amar, Wafa Aissi, Hichem Aouina

**PA295**
Development of vanishing lung syndrome in patients with COVID-19 pneumonia
Galyna Gumieniuk (Kyiv, Ukraine), Yuri Feshchenko, Mykola Gumieniuk, Viktoria Ignatieva, Maryna Polianska, Mykola Lyunya, Svitlana Opimakh, Inna Zvol, Oleh Yakovenko

**PA296**
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, Zarir Udwadia, Jai Mullerpattan, Ayasha 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 Rozyńska, Ewa Pietruszka, Magdalena Zabicka, Marta Kania-Pudlo, Artur Maliborski, Karina Jahnz-Rozyk, Andrzej Chcialowski

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

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

Diagnostic performance of D-dimer in pulmonary embolism in patients with COVID-19
Haifa Zaibi (Tunis, Tunisia), Khouloud Chaabi, Hend Ouertani, Safia Othmani, Emna Ben Jemia, Jihen Ben Amar, Hana Hedhih, Hichem Aouina

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 Offivieri, Gianluca Spiteri, Giovanni Vegi, Giuseppe Verlato, Alessandro Marcon

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 Fragas Righetti, Fernanda Degobbi Tenorio Quirino Santos Lopes, Airlene P Alencar, Nelson Gouveia, Thais Mauad, Paulo A Lotufo, Isaabella Benson, Itamar Souza Santos, Iolanda Fátima Lopes Calvo Tibério

The gender-specific associations between greenness, air pollution and lung function in asthmatic patients
Tsu-Nai 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 Tran, 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 Gislasson, Torben Sigsgaard, Hans Orru, Camilla Geels, Lise Marie Frohn, Jorgen Brandt, Francisco Gomez Real, Simone Accordini, Iana Markeych, Cecile Svanes, Anje 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 Pasola, Velia Malizia, Isabella Annesi-Maesano, Sandra Baldacci

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

Air quality may affect emergency department workload: The effect of air pollution on acute exacerbation of chronic obstructive pulmonary disease in Zagreb, Croatia
Marko Banić (Zagreb, Croatia), Lorna Čorak, Dora Darapi, Robert Likić, Denis Baršević, 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, Catia 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, Slajgana Stosshikj, Marco Idzko, Beata Morajda, Robeh Breyer-Kohansal, Wolfgang Pohl

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

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

Curative surgical resection of lung cancer in octogenarian in tunisian center
Katharina Marth (Wien, Austria), Karin Patocka, Andreas Renner, Ingrid Stelzmüller, Slajgana Stosshikj, Marco Idzko, Beata Morajda, Robeh Breyer-Kohansal, Wolfgang Pohl

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

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

The clinicopathological study on the cause of high postoperative recurrence for catamenial pneumothorax
Masatoshi Kurihara (Tokyo, Japan), Kenji Tsuboshiba, Takahiro Ochi

Poster session: Thoracic surgery: a multifaceted subject
Date: SUNDAY 10 SEPTEMBER, 2023
Time: 08:00 - 09:30
Poster area: Session 54

Disease(s): Thoracic oncology, Interstitial lung diseases, Airway diseases, Sleep and breathing disorders
Method(s): Surgery, Epidemiology, Imaging, Pulmonary function testing, Endoscopy and interventional pulmonology, Respiratory intensive care
Tag(s): Clinical
Chairs: Kalliopi Athanassiadi (Athens, Greece), Marcello Migliore (Riyadh, Saudi Arabia)

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

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

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

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

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

**Diaphragm plications: trends and outcomes.**
Masooma Ali (Nottingham, United Kingdom), Mohammad Hawari, Abed-Elfattah 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 Zribi, Henda Neji, Hanen Smadhi, Sarra Zairi, Adel Marghli

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

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

**Non-small cell lung cancer with chest wall involvement: peculiarities of management**
Habib Bessrour (Ariana, Tunisia), Sarra Zairi, Nidhal Balloumi, Mehdi Abdennadher, Hazem Zribi, Mariem Afes, Aida Ayedi, Sonia Ouerghi, Adel Marghli

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

**Surgery for primary mediastinal seminoma after chemotherapy: report of 3 cases**
Kaouthier Ben Amara (Ariana, Tunisia), Mahdi Abdennadher, Hazem Zribi, Soumaya Saad, Amina Abdelkebir, Oumayma Mansour, Emma Brahem, Adel Marghli

**Enlarged pneumomeconctomy for non-small cell lung cancer: 10-year experience**
Asma Saad (Ariana, Tunisia), Mahdi Abdennadher, Takwa Abdelfatah, Hazem Zribi, 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 Fitouri, Mariem Afes, Amina Abdelkebir, Hazem Zribi, Sonia Ouerghi, Sauditous Hantous, Tahar Mestiri, Adel Marghli

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**PS-12 in poster area**
**Session 55**
**08:00 - 09:30**
**Posters: Best posters in respiratory physiotherapy**
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, Ruvisay Gutierrez-Arias, Xavier Alsina-Restoy, Luis Vasconcello-Castillo, Agustin R. Garcia, 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), Melten 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, Nicola Chichizola, Juan Pablo Escalante, Gonzalo Veiga, Leire Mendiluce-Ochandorena, Ane Arbillaga Etxarri

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

EXPERIMENTAL MUSCLE TRAINING IN PATIENTS WITH BRONCHIECTASIS
Aysenur Yilmaz (Denizli, Turkey), Orçin Telli Atalay, Gökşel Altnişişik

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

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

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

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

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

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

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

PS-13 in poster area

Session 56 08:00 - 09:30

Poster session: Contemporary nursing

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

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

Tag(s): Clinical

Chairs: Andreja Sajnic (Zagreb, Croatia), Chair to be confirmed

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

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

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

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

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

PA368
Interstitial Lung Disease (ILD): Longitudinal exploration of patient experiences of home spirometry

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

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

PA371
Sind Post-COVID: Impact on Physical and Functional Respiratory Capacity
Lucía Méndez González (Santa Maria da Feira, Portugal), Susana Pereira, Cristina Alves, Catia Caneiras, Filipa Ferreira, Jorge Ferreira
Impact and clinical benefit of nebulized antibiotics in patients with chronic bronchial infection without cystic fibrosis
Sally Santistevě Lestes (Ileida, Spain), Marcela Suarez, Esther Gracia-Lavedan, Alfredo Jover Saenz, Maria Zuli, Juan A. Schoenenberger 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 Lalíc Cickovic, Tomislava Milinkovic, Dolores Bzik, Gorana Levacic, Andreja Sajnic, Irena Godic, Andrea Vukic Duçac

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

Developing an audit tool for 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 Løkke, Kathrine Bock, Thomas Decker Christensen, Mørten Benidstrup, Elisabeth Bendstrup, Lotte Hasling Kobol 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

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 Murriss, Robert Wilson, Adam Hill, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Josje 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 Perea Soriano, Jennifer Pollock, Yan H Giam, Megan Crichton, Hayoung Choi, Erin Cant, Simon Finch, Christopher J. Fong, Francesco Blasi, Amelia Shoemark, Oriol Sibila, Stefano Aliberti, James D Chalmers

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 H Giam, Alison Dicker, Lidia Perea, Hollian Richardson, Jeffrey Huang, Erin Cant, Francesco Blasi, Jennifer Pollock, Michal Shteinberg, Simon Finch, Stefano Aliberti, Oriol Sibila, James Chalmers

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, Sanjay H Chotirmall, Raja Dhar, Pieter Goeminne, Charles Haworth, Michael Loebinger, Natalie Lorent, Eva Polverino, Felix Ringshausen, Michal Shteinberg, Oriol Sibila, Tobias Welte, James D Chalmers
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<th><strong>PA386</strong></th>
<th>Alpha-1 antitrypsin deficiency genotypes in a large international cohort study of bronchiectasis (EMBARC BRIDGE)</th>
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<th><strong>PA387</strong></th>
<th>Bronchiectasis in Patients with Chronic Lymphocytic Leukemia</th>
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<td><strong>Ori Wand</strong> (Kfar Sava, Israel), <strong>Dovev Cohen</strong>, <strong>Alexandra Osadchy</strong>, <strong>Lilach Israeli-Shani</strong>, <strong>Keren Cohen-Hagai</strong>, <strong>David Shitrit</strong></td>
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<th><strong>PA389</strong></th>
<th>Bronchiectasis as a prognostic factor in patients with alpha 1 antitrypsin deficiency?</th>
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<td><strong>Maria Beatriz Dias Ferraz</strong> (Porto, Portugal), <strong>Tiago Oliveira</strong>, <strong>Barbara Ramos</strong>, <strong>Maria Sucena</strong>, <strong>Ines Sanches</strong>, <strong>Catarina Lacerda</strong>, <strong>Raquel Maroza</strong>, <strong>Ivone Pascoal</strong></td>
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<th><strong>PA391</strong></th>
<th>A cohort series: referral bias and unmet needs in inflammatory bowel disease associated bronchiectasis</th>
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<td><strong>Georgia Tindle</strong> (Newcastle Upon Tyne, United Kingdom), <strong>Paul McCallion</strong>, <strong>John Davison</strong>, <strong>Katy Hester</strong>, <strong>Anthony De Soyza</strong></td>
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<th><strong>PA392</strong></th>
<th>Identification of a subgroup of non cystic fibrosis (CF) bronchiectasis patients with asthmatic traits</th>
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<th><strong>PA394</strong></th>
<th>What are the radiological, microbiological and biochemical characteristics of bronchiectasis in alpha-1 antitrypsin deficiency? A systematic review</th>
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<td><strong>Joshua De Soyza</strong> (Birmingham, United Kingdom), <strong>Anita Pye</strong>, <strong>Daniella A. Spittle</strong>, <strong>Alice M. Turner</strong></td>
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<th><strong>PA395</strong></th>
<th>Evaluation of the quality of life in patients followed for bronchial dilatation at the Hassan II Hospital in Agadir</th>
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<td><strong>Khadija Ait nasser</strong> (Agadir, Morocco), <strong>Houda Moubachir</strong>, <strong>Hind Serhane</strong></td>
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<th>Mannitol vs Hypertonic saline in non-CF bronchiectasis, a systematic review, pairwise, and network meta-analysis of randomized control trials.</th>
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<td><strong>Mohamed H. Fathy</strong> (New Cairo, Egypt), <strong>Mahmoud A. Elnagar</strong>, <strong>Merihan A. Elbadawy</strong>, <strong>Ahmed K. Awad</strong></td>
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<th>Bronchiectasis associated to connective tissue diseases: a single-center experience</th>
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<td><strong>Anna Stainer</strong> (Vigezano, Italy), <strong>Andrea Gramegna</strong>, <strong>Edoardo Simonetta</strong>, <strong>Mattia Nigro</strong>, <strong>Marco Mantero</strong>, <strong>Margherita Ori</strong>, <strong>Francesco Amati</strong>, <strong>Stefano Aliberti</strong>, <strong>Francesco Blasi</strong></td>
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<th>Phenotypes in adult patients with bronchiectasis: a cluster analysis</th>
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<td><strong>Oxana Munteanu</strong> (Chişinău (Chişinău), Republic of Moldova), <strong>Doina Rusu</strong>, <strong>Aliona David</strong>, <strong>Leonid Onea</strong>, <strong>Victor Botnaru</strong></td>
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**PS-15 in poster area**

**Session 58**

**08:00 - 09:30**

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

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

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

**Tag(s):** Clinical
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<td>PA401</td>
<td>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)</td>
<td>Tomohiro Bando (Seto, Japan), Yasuhiko Yamano, Reoto Takei, Hajime Sasano, Jun Fukihara, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Takeshi Johkoh, Junya Fukuoka, Yasuhiro Kondoh</td>
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<td>PA403</td>
<td>Sustained-release morphine for breathlessness in interstitial lung disease - a crossover study</td>
<td>Diana Ferreira (Adelaide (SA), Australia), Magnus Ekstrom, Vanessa Brunelli, Sabrina Bajwah, David Currow</td>
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<td>PA405</td>
<td>Nebulised pirfenidone in non-idiopathic pulmonary fibrosis (IPF) progressive pulmonary fibrosis (PPF): first look at FVC data</td>
<td>Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deephi Nair, Courtney Thompson, Felix Woodhead</td>
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<td>PA406</td>
<td>Outcomes in real-life nintedanib treatment of progressive fibrosing interstitial lung disease.</td>
<td>Adriana Callari (Italy), Elisa Calzolari, Lavinia Martino, Nicola Lanzarone, Vitale Miceli, Patrizio Vitulo</td>
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<td>PA407</td>
<td>Role of nintedanib in the treatment of progressive fibrosing interstitial lung disease</td>
<td>Fatima Andres Franch (Sueca (Valencia), Spain), Ignacio Salvador Alvarez Martinez, Mario Andújar Llamazaes, Daniel Segura Ayala, Elsie Daviana Meneses Petersen, Luis Cabanes López, Laura Novella Sánchez, Jose Ramon Ferrando Gabarda, María Meseguer Sisternes, Inmaculada Luich Tortajada, Elsa Naval Sendra</td>
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<td>PA408</td>
<td>Impact of oxygenation strategies on outcome in acute exacerbation of interstitial lung disease: A multicenter retrospective study</td>
<td>Robin Thévenin (Rouen, France), André Gillibert, Nicolas Dognon, Mélanie Drucbert, Laurie Lagache, Mathieu Salain, Antoine Cuvelier, Christophe Girault, Elise Artaud-Macari</td>
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<td>PA409</td>
<td>Whole Lung Lavage for Pulmonary Alveolar Proteinosis: A Retrospective Analysis of 33 Cases</td>
<td>Philippe Colares (São Paulo (SP), Brazil), Ana Avila, Paula D'Ambrosio, Roberta Sales, Helio Minamoto, Paulo Pêgo-Fernandes</td>
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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 Leónidas 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, Khaled 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
Goran Glodić (Zagreb, Croatia), Martina Batarilo Hadar, Dina Rnjak, Mateja Janković Makek, Dina Mihelčić Korte, Feđa Džubur, Dubravka Pelicarić, Andreja Močan, Tea Lovrić, Lorna Ćorak, Marko Banić, Miroslav Samaržija, 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 antifibrotic treatment 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 Stiefker, Michaela Ferrer, Elizabeth Yu, Lauren Guy, Kaitlyn Rauch, Sofia Klopp-Savino, Leslie Nangle

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, Malgorzata Sobiecka, Elżbieta Wiatr, Monika Zaleśka, Renata Langfort, Iwona Bestry

Drug-induced interstitial lung disease: insights from a referral center
Vasilina Sotropoulou (Patras, Greece), Panagiota Tsiri, Theodoros Karampitsakos, Matthaios Katsaras, Ourania Papaioannou, Tsiirkos Georgios, Electra Koulousoua, Eva Theochari, Ioannis Christopoulos, Dimitrios Komninos, Eilli Malakoundou, Eirini Zarkadi, Fotios Sampsonas, Argyrios Tzouvekleis

Poster session: Clinical problems in rare interstitial lung diseases

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, Malgorzata Sobiecka, Elżbieta Wiatr, Monika Zaleśka, Renata Langfort, Iwona Bestry

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Phenotype-genotype correlations of pediatric patients with biallelic mutations in ABCA3 and SFTP B surfactant-related genes

PA423
Manon Fleury (Paris, France), Alice Hadchouel, Julie Mazenq, Nouha Jedidi, Camille Fletcher, Myriam Benhamida, Pierrick Cros, Christophe Delacourt, Jean-Christophe Dubus, Carole Egron, Ralph Epaud, Michael Fayon, Aude Forgeron, Lisa Giovanni-Chami, Caroline Perisson, Hortense Petat, Marie-Catherine Renoux, Léa Roditis, Caroline Thumerelle, Clémentine Vigier, Aurore Coulomb, Laureline Berteloot, Chiara Sileo, Alix De Becdelièvre, Pascale Fanen, Marie Legendre, Camille Louvrier, Nadia Nathan

Health related quality of life in childhood interstitial lung disease – an ERS Clinical Research Collaboration

PA424
Elias Seidl (München, Germany), Mandy Niemitz, Sarah Stöhr, Nicolaus Schwerk, Martin Wetzke, Julia Carlens, Joanna Lange, Katarzyna Krenke, Nagehan Emiralioglu, Nural Kiper, Matthias Griese

Natural history and outcome of lymphangioleiomyomatosis in Ireland

PA425
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

PA426
Julie Cassibba (Paris, France), Lauren Bitton, Camille Fletcher, Manon Fleury, Céline Lustremant, Meryem Sari Hassoun, Sabrina Aberbache, Laureline Berteloot, Chiara Sileo, Marie Legendre, Camille Louvrier, Alix De Becdelièvre, Alice Hadchouel, Ralph Epaud, Nadia Nathan

Lower respiratory tract involvement in recurrent respiratory papillomatosis in a multicentric cohort study

PA427

Clinical characteristics of diffuse cystic lung diseases at a national referral centre

PA428
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

PA429
Ekaterina Krauss (Giessen, Germany), Laurenz H. Claas, Karen Moor, Maria Molina-Molina, Keerthana Siebert, Silke Tello, Rebecca Borton, Marlies Wijsenbeek-Lourens, Bruno Crestani, Andreas Guenther

The diagnostic role of transbronchial lung cryobiopsy (TBLC) in Granulomatous-Lymphocytic Interstitial Lung Disease (GLILD) associated to Common Variable Immunodeficiency (CVID)

PA430
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

PA431
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

PA432
Kefti Abdelbassat (Alger, Algeria), Rama Touahri, Cherifa Djouadi

Lung Transplant in hypersensitivity pneumonitis patients.

PA433
Carolina Santamaría Valencia (Maspalomas, Spain), Ioavanna 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

PA434
Yasuhiro Kondoh (Seto (Aichi), Japan), Taiki Furukawa, Ryo Teramachi, Hironao Hozumi, Takafumi Suda, Tomoyuki Fujisawa, Ryoko Egashira, Takeshi Hikihara, Junya Fukuoka, Masatake Kuwana, Takashi Ogura, Yasunari Miyazaki, Masashi Bando, Yoshihiko Inoue, Hiromi Tomioka, Yasuhiko Nishioka, Hirofumi Chiba, Masahito Ebina, Kazuya Ichikado, Naozumi Hashimoto, Makoto Ishii

Clinical and radiologic differences between patients with combined pulmonary fibrosis and emphysema and a matched emphysema cohort

PA435
Tal Ardon (Tel Aviv, Israel), Omer Kersh, Ophir Freund, Tamar Shalmon, Tzlil Hershko, Amir Bar-Shai, Galit Aviram, Avraham Unterman

Diagnostic testing for GLILD in Common Variable Immunodeficiency: A Systematic Review

PA436
Heba M Bintalib (London, United Kingdom), Annick A J M Van De Ven, Joseph Jacob, Jesper R. Davidsen, Børre Fervang, Leif G Haritsch, John Routes, Marion Malphettes, Joris Van Montfrans, Paul J. Maglione, Cinzia Milito, Klaus Warnatz, John R Hurst

Prevalence of lung cysts – are we missing incidental cystic lung disease?

PA437
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

Poster session: Basic mechanism in pulmonary hypertension

Disease(s): Pulmonary vascular diseases
Method(s): Cell and molecular biology  Physiology
Tag(s): Basic science
Chairs: Frances S. de Man (Amsterdam, Netherlands), Chair to be confirmed

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

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

Proteomic profiling of pulmonary hypertension associated with respiratory disease
Adelaida Bosacoma (Barcelona, Spain), Agustin Garcia, Juan Jose Lozano, Julia Sidorova, Isabel Blanco, Clara Martin, Olga Tura-Deide, Victor Ivo Pemado, Diego Rodriguez, Manuel Lopez-Meseguer, Fernanda Hernandez-Gonzalez, Jesus Ribas, Xavier Pomares, Salud Santos, Maria Molina-Molina, Jacobo Sellarres, Joan Albert Barbera

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

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

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

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

Cannabidiol alleviates cardiac fibrosis probably through inhibiting endothelial-to-mesenchymal transition in rat model of pulmonary hypertension
Anna Krzyzewska (Bialystok, Poland), Marta Baranowska-Kuczek, Irena Kasacka, Hanna Kozlowska

Osteopontin in experimental right ventricular remodeling
Arjen Mamazhakypov (Bishkek, Kyrgyzstan), Norbert Weissmann, Ardeschir Ghofrani, Ralph Schermuly, Akybek Sydikov

Targeting DHPS-mediated hypusination of eIF5A improves vascular remodeling in PAH
Sarah-Eve Lemay (Quebec, Canada), Yann Grobs, Sandra Martineau, Marbrouka Salem, Tsukasa Shimauchi, Alice Bourgeois, Sandra Breuils-Bonnet, Francois Potus, Steeve Provencher, Sebastien Bonnet, Olivier Bouchar

HS135, A Novel Activin and GDF Trap, is Highly Efficacious in Models of Group 1 and Group 2 Pulmonary Hypertension (PH)
Gauthier Schang (Montreal, Canada), Mathilde Poujol De Moliens, Emilie Brule, Ariane Sours, Cristina Chauvet, Jean-Francois Denis, Vannakambadi Ganesh, Gilles Tremblay, Julia Schoelerman, 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, Beau Neepe, 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 Mummy, 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 Théberge, Reem Al Kabbout, Charlotte Romanet, Min Lu, Xinqiang Huang, James E Dowling, Adrian S Ray, François Potus, Steeve Provencher, Olivier Boucherat, 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 Shahauk, Zoe Saßmannshausen, Nicola Benjamin, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Katrin Hinderhofer, Ekkehard Grüng, Magdalena Laugsch, Christina Eichstaedt

Alpha-B crystallin regulates apoptosis in idiopathic pulmonary hypertensive smooth muscle cells
DONGQI XING (Birmingham, United States), R. Chad Wade, Jacelyn E Peabody Lever, Teodora Nicola, Vivian Y Lin, Yixin Wu, Gregory A Payne, Jarrod W Barnes, J. Michael Wells

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

Role of histone acetyltransferases P300/CBP in pulmonary arterial hypertension and right heart failure
Alice Bourgeois (Québec, Canada), Sarah-Eve Lemay, Yann Grobs, Charlotte Romanet, Sandra Breuils-Bonnet, Mabrouka Salem, Sandra Martineau, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet

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), Neta Nambiar Veetil, Tara Gransar, Shao-Fei Liu, Robert Szulcek, Volkmar Falk, Christoph Knosalla, Wolfgang M. Kuebler

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

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, Keigo Uchimura, Takaaki Tsuchida

The ThinICE protocol: the combination of cryobiopsy and ultraThin bronchoscopy for the peripheral lung nodule.
Leonardo Giuntoli (montecatini terme, Italy), Luca Ciani, Valentina Luzzi, Marco Trigiani, Gori Leonardo, Lorenzo Corbetta, Alessandra Sorano, Alessandro Fusco, Giorgio Vitale, Valeria Pasini, Elisabetta Rosi, Federico Laborini, Camilla Comin, Sara Tomassetti
Diagnostic utility and safety of non-intubated cryobiopsy using a 1.1-mm cryoprobe for peripheral pulmonary lesions
Toshiyuki Nakai (Osaka, Japan), Tetsuya Watanabe, Kazuhiro Yamada, Misako Nishimura, Atsushi Miyamoto, Yoshiya Matsumoto, Kenji Sawa, Kanako Sato, Kazuhsa 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 Romeni (Jerusalem, Israel), Elad Guber, David Shitrit

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

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

The safety and practices of performing endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) without an anesthesiology team: experience from a tertiary centre
Grgur 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 (Myšlenice, Poland), Piotr Gniady, Agnieszka Knaczyk, Damian Czyżewski, Piotr Krudys, Alina Szymczyk, Piotr Kocoon, Artur Bartczak, 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 Srdić, Filip Popović, Feđa Džubur, Marta Koršič, Miroslav Samaržija

Evaluation of tissue adequacy in patients with malignant intrathoracic lymphadenopathy undergoing endobronchial ultrasound-guided mini-forceps biopsy (EBUS-MFB) added on EBUS-TBNA compared to EBUS-TBNA alone
Pipu Tavornshevin (Bangkok, Thailand), Vorawut Thanthitaweewat, Thitiwat Sriprasart, Virissorn Wongsrichanalai, Poonchavist 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, Juin 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 Pijuan, Nuria Baixeras, Pere Serra, Laura López Vilaró, Eduard Barrio, Carmen Centeno Clemente, Rachid Tazi-Mezalek, Felipe Andreo, Antoni Rosell Gratacos, Alfonso Torrego, Salud Santos Pérez, Rosa López-Lisbona

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 Gerreetsen (Maastricht, Netherlands), Marleen Groenier, Erik Van Der Heijden, Walther Van Mook, Jouke Annema, Frank Smeenk

PS-19 in poster area
Session 62
08:00 - 09:30
Poster session: Seeing is believing: new interventions in respiratory education

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases, Thoracic oncology
Method(s): General respiratory patient care, Respiratory intensive care, Endoscopy and interventional pulmonology, Public health, Cell and molecular biology, Epidemiology, Imaging, Surgery, Palliative care
Tag(s): Clinical

High-Fidelity Simulation Enhances Trainee Confidence in Lung Cancer Multidisciplinary Team Meetings
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Eveline Gerreetsen (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 Ogleby, Arlene Glasgow, Chiara De Santi, Ingrid Gensch, Nico Lachmann, Tiffen 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 Dorothée Michels (Heidelberg, Germany), Janina Schubert-Haack, Benjamin Neet, Katrin Tanek, Gabriele Iberl, Axel Kempa, Claus Neurohr, Alessandro Ghiani, Christoph Andritschky, Armin Schneider, Patrick Gehrig, Simone Britsch, Mascha O. Fiedler, Joachim Szecsenyi, Felix J.F. Hirth

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 Litke, Olaf Buntemeyer, Simone Janssen, Axel Kempa, Claus Neurohr, Armin Schneider, Joachim Szecsenyi, Elena Biehler, Thomas Fleischauer, Felix JF 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, Elissavet-Anna Chrysoschoou, 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), Chuang-Yu Chen, Matthew Hui-Ming Ma, Juery-Jen Hwang

Management of breathlessness: an ERS early career members online survey
Inês Zioutmi (Cergy, France), Maria Joana Pereira Catara, 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 Alfaro, Merel Hellemans, Linnie Damian, 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. Grotte, Julia Wälscher, 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
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<td><strong>Poster session: Pulmonary physiology: implications for pulmonary rehabilitation</strong></td>
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<td><strong>Disease(s):</strong></td>
<td>Airway diseases, Interstitial lung diseases, Respiratory critical care</td>
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<td><strong>Method(s):</strong></td>
<td>Epidemiology, Physiology, General respiratory patient care, Pulmonary rehabilitation, Cell and molecular biology, Respiratory intensive care, Pulmonary function testing</td>
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<td><strong>Tag(s):</strong></td>
<td>Clinical</td>
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<tr>
<td><strong>Chairs:</strong></td>
<td>Audrey Borghi Silva (São Carlos (SP), Brazil), Ernesto Crisafulli (Modena (MO), Italy)</td>
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<tr>
<td>PA499</td>
<td><strong>CPET in Long COVID (LC) patients (pts) with dyspnea and fatigue</strong>&lt;br&gt;Paraskevi Katsanou (Athens, Greece), Archoudoula Adonoglou, Adreas Asimakos, Stavroula Spetsioti, Pandelis Gounopoulos, Eleni Kostantinidou, Dimitris Spagoulakis, Stavros Patrinos, Adonis Kodaxakis, Aspasia Mavronassou, Martha-Spyridoula Katsarou</td>
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<td>PA500</td>
<td><strong>Combined Respiratory Muscle Training improves Long Covid symptoms - results from the Covid Virtual Recovery Study</strong>&lt;br&gt;Nina Bausek (Gloggnitz, Austria), Meredith, G Shea, Courtney, M Wheatley-Guy, Bruce Johnson</td>
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<td>PA501</td>
<td><strong>Effects of manueal therapy and inspiratory muscle training on respirotary functions, fatigue and activities in children with muscular disease</strong>&lt;br&gt;Burcu İşıkçı (ZEYTINBURNU, Turkey), Ahu Gizem Akçuş, Yusam Buran Çırak, Güil Deniz Yılmaz Yelvar, Nurğül Dürüstkan Elbaşi, Yunus Emre Tütüneken, Kübra Kardes</td>
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<td>PA502</td>
<td><strong>Physiological effects of nasal high flow therapy in people with chronic obstructive pulmonary disease during exercise.</strong>&lt;br&gt;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 Cuvelier, Maxime Patout</td>
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<td>PA503</td>
<td><strong>Clinical assessment of endothelial function in patients with chronic obstructive pulmonary disease undergoing pulmonary rehabilitation</strong>&lt;br&gt;Claudio Cándia (Naples, Italy), Pasquale Ambrosino, Giuseppina Marcuccio, Silvestro Ennio D'Anna, Salvatore Fuschillo, Roberto Formisano, Lucia Abagnale, Anna Lanzillo, Antonio Molino, Mauro Maniscalco</td>
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<td>PA504</td>
<td><strong>Effectiveness assessment of oscillating positive expiratory pressure (OPEP) devices: Using a clinically relevant laboratory measure</strong>&lt;br&gt;Jason Suggett (London (ON), Canada), Rob Costa</td>
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<td>PA505</td>
<td><strong>Estimation of the minimal important difference (MID) for the 1 repetition max (1RM) in COPD</strong>&lt;br&gt;George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan</td>
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<td>PA506</td>
<td><strong>Impaired training-induced myogenesis in COPD is due to blunt expression of extracellular matrix proteins.</strong>&lt;br&gt;Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Efpraxia Kritikaki, Gerasimos Terzis, Ioannis Vogiatzis</td>
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<td>PA507</td>
<td><strong>Interval-load vs constant-load upper limb exercise in patients with COPD: a cross-over study</strong>&lt;br&gt;Mara Paneroni (Mazzano (BS), Italy), Alessandro Cavicchia, Beatrice Salvi, Laura Bertacchini, Michele Vitacca</td>
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<td>PA508</td>
<td><strong>Estimation of the minimal important difference (MID) of quadriceps maximum voluntary contraction (QMVC) in response to pulmonary rehabilitation (PR) in COPD</strong>&lt;br&gt;George D Edwards (Ilford, United Kingdom), Suhani Patel, Timothy Jenkins, Karen A Ingram, William D-C Man, Claire M Nolan</td>
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<td>PA509</td>
<td><strong>Effect of Baduanjin combined with singing therapy on respiratory function of COPD patients</strong>&lt;br&gt;Qiao Qiao (Changchun, China), Hongjing Lin</td>
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<td>PA510</td>
<td><strong>Strength, effort tolerance and muscle fatigue in COPD patients under Long Term Oxygen Therapy: role of different obstruction severity</strong>&lt;br&gt;Alessandro Cavicchia (Verona, Italy), Michele Vitacca, Beatrice Salvi, Laura Bertacchini, Massimo Venturelli, Mara Paneroni</td>
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<td>PA511</td>
<td><strong>Immediate Effects of Thoracic Manual Therapy on Pulmonary Function in Stroke Patients</strong>&lt;br&gt;Yunus Emre Tutuneken (Istanbul, Turkey), Emine Atici, Kenan Güll, Yasemin Buran Çırak, Kubra Kardes, Nurgül Dürüstkan Elbaşi, Burcu İşıkçı</td>
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<tr>
<td>PA512</td>
<td><strong>Reliability of remote 1-minute sit-to-stand test to measure physical capacity in patients with chronic respiratory diseases</strong>&lt;br&gt;Santiago Larrateguy (Paraná, Argentina), Matias Otto-Yañes, Juan Bogado, Luis Larrateguy, Isabel Blanco, Elena Gimeno-Santos, Rodrigo Torres-Castro</td>
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</table>
PA513 Reference values for the 1-minute sit-to-stand test for the Argentine population
Santiago Larrateguy (Paraná, Argentina), Santiago Burgos, Rocío Iglesias, Laura Carrizo, Martín Cestari, Santiago Saavedra, Luis Larrateguy, Matías Otto-Yañez, Guillermo Mazzeuco, Elena Gimeno-Santos, Rodrigo Torres-Castro

PA514 Modified six-minutes walk test in children with medical complexity and chronic lung disease
Gregory Villarroel Silva (Santiago, Chile), Macarena Faúndez Silva, Paula Vera Tapia, Gonzalo Moscoso Altamira, Barbara Moya Torres, María Jose Miranda Miño, Ignacio Oyarzun Aguierre

PA515 Biomarkers differentiating acute heart failure from COPD exacerbations: not much evidence
Sanne H B van Dijk (Enschede, Netherlands), Marjolein G J Brusse-Keizer, Charlotte C Bucsán, Eline H Ploumen, Wendy J C Van Beurden, Job Van Der Palen, Carine J M Doggen, Anke Lenferink

PA516 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), İlkunur Naz, Hülya Doğan Şahin

PA517 Findings from a modified six-minute walk test (m-6MWT) in patients attending the long COVID clinic
Emma Dennyey (London, United Kingdom), Robert Chapman, Rebecca Evans, Ewen Brennan, Rebecca Livingston, Rebecca Gore, Helen Purcell, Jeremy Brown, Toby Hillman, Melissa Heightman

PA518 Relevance of multidimensional dyspnea assessment in context of pulmonary rehabilitation
Virgine Molinier (Lodève, France), Espérance Moine, Pauline Caille, Nathalie Fernandes, Francois Alexandre, Nelly Heraud

PS-20 in poster area Session 64 08:00 - 09:30
Poster session: How much can we afford? The balance of costs and clinical benefits in the light of chronic respiratory diseases

Disease(s) : Airway diseases, Respiratory critical care
Method(s) : General respiratory patient care, Epidemiology, Public health, Respiratory intensive care, Palliative care
Tag(s) : Clinical
Chairs : Sylvia Hartl (Wien, Austria), Chair to be confirmed

PA519 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

PA520 Estimating costs associated with paediatric Respiratory Syncytial Virus infection managed in the hospital setting in England.
Rebecca Butfield (Tadworth, United Kingdom), Jack Said

PA521 A cost and environmental analysis of a vibrating mesh nebuliser
Amy Dymond (York, United Kingdom), Daniela Afonso, Stuart Mealing

PA522 Health, environmental, and societal impact of asthma care pathway in the UK: A cost-of-illness study
Martina Orlovic (Parma, Italy), Dimitrios Tzelis, Ines Guerra, Vlada Bar-Katz, Nicolas Wolley, Hannah Bray, Mohammed Hanslot, Omar Usmani, Alessandra Madoni

PA523 Cost effectiveness analysis of treatments for children with uncontrolled asthma symptoms despite taking inhaled corticosteroids
Giovanna Culeddu (Bangor, United Kingdom), Ian Sinha, Sarah Donegan, Michelle Maden, Sofia Cividini, Katie Rose, Olivia Fulton, Stephen Turner, Catrin Tudor Smith, Dyfrig A. Hughes

PA524 Development, validation and application of an asthma cost-effectiveness model for value assessment of digital inhaler adherence enhancing strategies

PA525 Direct health care cost of Chronic Obstructive Pulmonary Disease (COPD) in Morocco: a cost of illness study.
Soumaya Benmaamar (FEZ, Morocco), Ibtissame Es-Sabbahi, Mohamed Teghi Heiba, Mohamed Omari, Ibtissam El Harch, Mohammed Youbi, Latifa Belakhhel, Loubna Abousselham, Hafid Harriri, Ímame El Menchawy, Samira El Fakir, Mohammed Chakib Benjelloun, Nabil Tachfouti

PA526 ANALYSIS OF THE CLINICAL CHARACTERISTICS AND COMORBIDITIES OF PATIENTS WITH COPD AND HOME MECHANICAL VENTILATION
Marina Galdeano Lozano (Montacada I Reixach (Barcelona), Spain), Adriana Martín Pascual, Carmen Fernandez Arias, Ariadna Ning Moracho Párrauelo, Guillem Hernandez Guillamet Hernandez Guillamet, Francesc López Seguí, Agnes Hernández Biette, Irene Aldás Criado, Antoni Marin Muñiz, Monica Matute Villacís, Ignasi Garcia Olivé, Jorge Abad Capa
PA527  Feelings of Family Members of Patients with Chronic Respiratory Disease Before and After the Introduction of Home Oxygen Therapy
Rika Tonami (Fukui, Japan), Miyuki Sato, Keiko Kobayashi, Keiko Kobayashi

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

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

PA530  Late Breaking Abstract - Cradle-to-grave emission reduction for dry powder inhaler product portfolio
Hanna Hisnger-Molkänen (Tuusula, Finland), Matleena Inget, Satu Lähelmä, Noora Paronen

PS-4 in poster area  Session 66  08:00 - 09:30
Poster session: New concepts in pulmonology

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

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

Tag(s) : Basic science, Translational

Chairs : Jonathan Baker (London, United Kingdom)

PA550  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 Dhillon

PA551  Primary human type II alveolar cells cultured in human decellularized lung slices maintain phenotype and respond to TGF-ß1 stimuli with altered ECM production
Anna-Karin Larsson-Callerfelt (Lund, Sweden), Oskar Rosmark, Mans Kadeffors, Goran Dellgren, Christofer Karlsson, Anders Ericsson, Sandra Lindstedt, Johan Malmstrom, Oskar Hallgren, Gunilla Westergren-Thorsson

PA552  Late Breaking Abstract - Role of eosinophil mitochondrial function in severe eosinophilic asthma
Janice Koranteng (London, United Kingdom), Katie Raby, Piers Dixey, Sook Ling Lai, Peter Howarth, Kian Fan Chung, Charalambos Michaeloudes, Pankaj Bhavsar

PA553  High-content imaging assays to monitor the effects of cigarette smoke on mitochondrial health
Maria Karlsson (Västra Frölunda, Sweden), Titu Wennberg, Gabriel Skogberg, Johan Jirholt

PA554  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 Bratkuh, Grazyna Kwapiszewska

PA555  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 Lücket, József Tolnai, Gergely H. Fodor, Eszter Farkas, Ferenc Peták

PA556  Evidence of microvascular damage in Covid-19 survivors by simultaneous measure of diffusing capacity for carbon monoxide and nitric oxide.
Nicola Compagnone (San Cipriano d'Aversa, Italy), Patrizia Rovere-Querini, Rebecca De Lorenzo, Cecilia Bussolari, Giacomo Piacenti, Giordano Vitali, George Cremona

PA557  Effects of vitamin D3 on human lung fibroblasts derived from patients with IPF
Tom Voisin (Rennes, France), Audrey Joannes, Claudie Morzadec, Dominique Lagadig-Gossman, Cécile Le Naoures, Bertrand Richard De Latour, Stéphane Jouneau, Laurent Vernhet

PA558  Induction of epithelial cellular senescence and pro-fibrotic changes in human precision-cut lung slices
Maria Camila Melo Narvaez (Munich, Germany), Mircea-Gabriel Stoleriu, Anna Gabriela Stoleriu, Claudia Staab-Weijnitz, Ali Önder Yildirim, Melanie Koenigshoff, Mareike Lehmann

PA559  Interaction of human lung mesenchymal cells with an elastin-derived extracellular matrix-like microenvironment
Arturo Ibáñez Fonseca (Lund, Sweden), Linnea Persson, Zakarias Söderlund, Måns Kadeffors, Linda Elowsson, José Carlos Rodriguez-Caballo, Gunilla Westergren-Thorsson
PA562 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

PA563 Mitochondrial transplantation reduces endothelial injury in the ARDS environment in vitro
Anna Krasnodebskaya (Belfast (Belfast), United Kingdom), Dayene de Assis Fernandes Caldeira, Johnatas D Silva, Patricia R M Rocco, Pedro S Leme, Fernanda F Cruz

PA564 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

PA565 Omeg@Silica microparticles modulates p53 and cell proliferation in A549
Caterina Di Sano (Palermo, Italy), Claudia D’Anna, Rosaria Ciriminna, Mario Pagliaro, Elisabetta Pace

PA566 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

PA567 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

PA568 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

PA569 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-5 in poster area
Session 67 08:00 - 09:30
Poster session: New insights in positive airway pressure therapy

Disease(s): Sleep and breathing disorders, Respiratory critical care
Method(s): General respiratory patient care, Pulmonary rehabilitation, Public health, Epidemiology, Physiology
Tag(s): Clinical
Chairs: Matteo Bradicich (Zollikoberg, Switzerland)

PA570 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 Wagih Abdelwahab

PA571 Usefulness of nocturnal oximetry (NOxi) following positive airway pressure (PAP) initiation
Clara Bianquis (Saint-Prix, France), Vanessa Bironneau, Cécile Londner, Carole Philippe, Inês Zaïen, Valérie Attali, Garance Vaillant, Bérénice Soyez, Stéphane Attard, Gum Suk Cabrillac, Isabelle Arnulf, Justine Frija-Masson, Maxime Patout

PA572 TRANSCUTANEOUS CAPNOGRAPHY AS A MONITOR OF POSITIVE AIRWAY PRESSURE TREATMENT
Jorge Rodriguez Sanz (ZARAGOZA (SPAIN), Spain), Maria Aguado Agudo, Marta Miranda Hernández, Luisa Margarita Cabrera Pimentel, Maria Teresa Martín Carpi

PA573 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

PA574 The efficiency of azelastine hydrochloride and fluticasone propionate nasal spray to improve PAP adherence in patients with obstructive sleep apnea
Rachata Wongchan (Pathumthani, Thailand), Chatkarin Tepwimonpetkun

PA575 Current treatment strategies in managing side effects associated with domiciliary Positive Airway Pressure (PAP) therapy for patients with sleep disordered breathing: A systematic review and meta-analysis
Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Amar Shah, Swapna Mandal, Silvia Scheivano, Eleanor Main

PA576 Evaluation of CPAP adherence in non-obese and obese obstructive sleep apnoea patients
Liam Chilton (Hull, United Kingdom), Harriet Hearn, Shoaib Faruqui

PA577 Factors influencing the CPAP therapeutic adherence in women with obstructive sleep apnea (OSA)
Bárbara Gracia Hernández (Huelva, Spain), Alberto González Hernández, Ana Belén Rodríguez Gómez, Jessiva Ivana Hilares Vera
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<th>PA578</th>
<th>Compliance with continuous positive airway pressure in the military: a Tunisian study</th>
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<td>Hana Mrassi (Tunis, Tunisia), Islam Mejri, Marwa Kacem, Chiraz Aichaouia, Samira Mhandi, Zied Moatemri</td>
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<th>PA579</th>
<th>Early predictors of long-term PAP compliance</th>
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<td>Andrew Scott (Brisbane (QLD), Australia), James Howell, Travis Bell, Judy Carter, Luca Maioli, Alex Bruce</td>
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<tr>
<th>PA580</th>
<th>Investigating associations between social determinants, self-efficacy measurement of sleep apnea and CPAP adherence: the SEMSA study</th>
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<tr>
<td>Sébastien Bailly (Grenoble, France), Thibaut Gentina, Elodie Gentina, Bernard Douay, Jean-Arthur Micoulaud, Jean-Louis Pépin</td>
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<th>PA581</th>
<th>Heathy adherer effect and positive airway pressure therapy of obstructive sleep apnea</th>
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<td>Claire Launois (Reims, France), Sébastien Bailly, Wojciech Trzepizir, François Goupil, Thierry Pigeanne, Laurene Leclair-Visonneau, Phillippe Masson, Acya Bizieux-Thaminy, Nicole Meslier, Sandrine Kerbrat, Frédéric Gagnadoux</td>
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<th>PA582</th>
<th>Effects of CPAP and its withdrawal on nocturnal blood pressure and sleepiness in obstructive sleep apnea – a two-phase interventional trial</th>
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<td>Joël Julien Herzig (Zürich, Switzerland), Robin Mozolowski, Martina Meszaros, Malcolm Kohler, Silvia Ulrich, Esther Irene Schwarz</td>
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<th>PA583</th>
<th>Continuous Positive Airway Pressure effects on electrocardiographic manifestations of Severe Obstructive Sleep Apnea</th>
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<tr>
<td>Amal Saidani (Bizerte, Tunisia), Fateh Kadardar, Sofiene Haboubi, Mouna Hacheni, Wiem Satouri, Hedi Ben Slima</td>
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<tr>
<th>PA584</th>
<th>Peak airflow-triggered adaptive servo-ventilation improves sleep structure of patients with heart failure and sleep apnea</th>
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<td>Shoichiro Yatsu (Toronto, Canada), Christian M. Horvath, John S. Floras, Alexander G. Logan, Clodagh M. Ryan, T. Douglas Bradley</td>
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<th>PA585</th>
<th>SUBJECTIVE HRQOL IN PATIENTS WITH SLEEP APNOEA SYNDROME WHO UNDERWENT PAP THERAPY IN A REHABILITATION SETTING: A FOLLOW-UP STUDY</th>
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<td>Francesco Fanfulla (Pavia (PV), Italy), Antonia Pierobon, Martina Vigorò, Eugenia Taurino, Gemma Grassi, Valeria Torlaschi, Marina Maffoni, Rita Maestroni, Roberto Maestri</td>
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<tr>
<th>PA586</th>
<th>Sleep apnea and psoriasis: a multidisciplinary approach</th>
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<td>Patrizia Pochetti (Vercelli, Italy), Beatrice Ragnoli, Beatrice Bacco, Ginevra Pertusi, Mario Malerba</td>
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<th>PA587</th>
<th>Insights from a hospitalised domiciliary NIV (DNIV) population: the use of DNIV data.</th>
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<tr>
<td>Lynn McDonell (London, United Kingdom), Stephanie Mansell, Rhiannon Parry, Swapna Mandal</td>
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<th>PA588</th>
<th>Ventilation mask choice: development of a custom made test bench</th>
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<td>Baptiste Rouchié (Bagneux, France), Clara Virbel-Fleischman, Yann Retory, Alexandra Schmidt, Giorgio Mattana, Benoit Piro, Emilie Bequignon, Bruno Louis, Steeve Reisberg</td>
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<tr>
<th>PA589</th>
<th>Ventilation mask choice: feedbacks by 72 Health professionals through pointing area diagrams</th>
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<tr>
<td>Baptiste Rouchié (Bagneux, France), Maxime Fieux, Clara Virbel-Fleischman, Yann Retory, Alexandra Schmidt, Emilie Bequignon</td>
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<th>PS-6 in poster area</th>
<th>Session 68</th>
<th>08:00 - 09:30</th>
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<td>Poster session: From bench to bedside: translational studies in airway diseases</td>
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<td><strong>Disease(s):</strong></td>
<td>Airway diseases</td>
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<td><strong>Method(s):</strong></td>
<td>Cell and molecular biology, Physiology, Public health, General respiratory patient care, Pulmonary rehabilitation, Imaging</td>
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<td><strong>Tag(s):</strong></td>
<td>Translational</td>
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<td><strong>Chairs:</strong></td>
<td>Lena Uller (Lund, Sweden), Ian M. Adcock (London, United Kingdom)</td>
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<th>PA590</th>
<th>BNT162b2 COVID-19 vaccine increases the sensitivity to histamine in human hyperresponsive airways</th>
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<td>Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Facciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani</td>
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<th>PA591</th>
<th>BNT162b2 COVID-19 vaccine increases contractility to EFS in human hyperresponsive airways</th>
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<tr>
<td>Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Aiello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Facciolo, Lorenzo Ippoliti, Andrea Magrini, Paola Rogliani</td>
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<th>PA592</th>
<th>The effects of pH alteration on human metapneumovirus infection in human airway epithelial cells</th>
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<tr>
<td>Ivana Daniels (Indianapolis, United States), Jessica Saunders, Laura Smith, Taiya Edwards, Benjamin Gaston, Michael Davis</td>
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The effect of magnetic stimulation of paravertebral ganglia on the anti-inflammatory reserves in COPD patients
Bohdana Basina (Dnipropetrovsk, Ukraine), Natalia Sanina, Tetiana Pertseva, 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 Säfholm, 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 Facchieto, Luigi Calzetta

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

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 tanimilast 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 Bosisio

Tanimilast 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, Graca Coutinho, Thomas Hallett, Anuradha Kulasekaran, 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 (Borstedt, Germany), Hanna Angstmann, Birte Ehrhardt, Susanne Krauss-Entschnam

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 Virsolvoy, Fares Gouzi, Arnaud Bourdinet, 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-7 in poster area  Session 69  08:00 - 09:30

Poster session: Biomarkers in chronic obstructive pulmonary disease

Disease(s): Airway diseases

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

Tag(s): Translational

Chairs: Louise Donnelly (London, United Kingdom)
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<th>Session</th>
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<td>PA609</td>
<td>Endothelial dysfunction markers in patients with chronic obstructive pulmonary disease</td>
<td>Olga Sadovenko (Kharkiv, Ukraine)</td>
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<td>PA610</td>
<td>Phenotypes and cluster analysis as predictors of survival in a real-life COPD cohort (RETO-POPE Study)</td>
<td>Vladimir Koblizek (Hradec Králové, Czech Republic), Branislava Milenkovic, Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr, Miroslav Ilíc, Jelena Jankovic, Vojislav Cupurdija, Jiri Jarkovsky, Boris Popov, Arschang Valipour</td>
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<td>PA611</td>
<td>Airway epithelial TSLP production is increased in COPD patients</td>
<td>Lynda SABER CHERIF (Reims, France), Maeva-A Devilliers, Jeanne-Marie Perotin, Julien Ancel, Delepine Gonzague, Myriam Polette, Gaetan Deslee, Valérien Dorrnoy</td>
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<td>PA612</td>
<td>FENO50 stability over a 2-year period in relation to COPD outcomes</td>
<td>Marieann Högmä (Uppsala, Sweden), Christer Janson, Andreas Palm, Björn Ställberg, Kristina Bröms, Karin Lisspers, Maria Härstedt, Andrei Malinovschi</td>
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<td>PA613</td>
<td>Optimising research bronchoalveolar lavage in COPD and alpha-1 antitrypsin deficiency</td>
<td>Malcolm Herron (Dublin, Ireland), Daniel Fraughen, Suzanne Roche, Lasya Kanchi, Emma Leacy, Lameeese Alhaddah, Ronan Heeney, Tomas Carroll, Mark Murphy, Noel Gerard Mcelvaney</td>
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<td>PA614</td>
<td>Hyperkalemia is an underestimated risk factor in COPD: a retrospective study from two Phase 3 trials</td>
<td>Jukka Mäenpää (Mölndal, Sweden), Isobel Anderson, Caroline A. Owen, Ulrika Emerath, Rod Hughes, Stefan Sultana, Marita Olsson</td>
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<tr>
<td>PA615</td>
<td>Functional characterization of FoxP3+ regulatory T cells in Chronic Obstructive Pulmonary Disease</td>
<td>Anjana Talwar (Noida (Uttar Pradesh), India), Meghashree Sampaath, Geetanjali Bade, Randeep Guleria, Sudip Sen, Anant Mohan</td>
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<td>PA616</td>
<td>Comparison of stable state and historic blood eosinophil counts in COPD patients at the GOLD guideline thresholds.</td>
<td>Arun Prasad (North Shields, United Kingdom), Carlos Echevarria, John Steer, Stephen. C. Bourke</td>
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<td>PA617</td>
<td>Blood-biomarkers to assess acute respiratory events (ARE) risk in COPD and chronic bronchitis (CB)</td>
<td>Ruben Chen (China), Yanqiu Wu, Tao Wang, Shuling Hu, Fuqiang Wen, Paul Jones, Nanshan Zhong</td>
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<td>PA618</td>
<td>Associations between serum Humanin levels and outcomes in stable COPD.</td>
<td>Carlos Antonio, Amado Diago (Santander (Cantabria), Spain), Paula Martin-Audera, Juan Agüero-Calvo, Mayte Garcia-Unzueta, Bernardo Alio Lavin, Armando Raul Guerra, Ana Berja, Tamara Quijano, Cristina Ghadban</td>
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<tr>
<td>PA619</td>
<td>Can we predict the prognosis of COPD with a routine blood test?</td>
<td>Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina</td>
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<tr>
<td>PA620</td>
<td>Burden of disease in COPD, stratified by eosinophils levels: a UK biobank study</td>
<td>Catia C Proenca (Basel, Switzerland), Oscar Dumoulin, Aurélie Chekroun Martinot, Pepi Hurtado, Mathieu Rose</td>
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<td>PA621</td>
<td>Dynamics of iron content in bronchoalveolar fluid in COPD patients</td>
<td>Allá Zuban (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Marianna Kulynych-Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Iryna Makoida, Olha Melnyk-Sheremetra</td>
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<td>PA622</td>
<td>Study to analyze factors responsible for readmission within 90 days in COPD patients in tribal area of central India.</td>
<td>Rudrika Pushpraj Bhatte (Jabalpur, India), Sandeep Singh, Sanjay Bharty</td>
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<td>PA623</td>
<td>The role of RNA binding proteins in eosinophilic COPD.</td>
<td>Ilektra Voulgareli (Athens, Greece), Maria Semitekolou, Ioannis Morianos, Myrto Blizou, Spyrodon Papiris, Georgios Hillas, Petros Bakakos, Stylianos Loukides</td>
</tr>
<tr>
<td>PA624</td>
<td>Novel spirometric parameters of the flow volume curve in COPD.</td>
<td>James Dean (Holmes Chapel, United Kingdom), Stephen Fowler, Dave Singh</td>
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<td>PA625</td>
<td>Influence of tobacco-smoking on serum amyloid A (SAA) level in stable COPD patients.</td>
<td>Bohdana Basina (Dnipropetrovsk, Ukraine), Daria Koval</td>
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<td>PA626</td>
<td>Clinical significance of serum oxidative stress in COPD patients</td>
<td>Keitaro Nakamoto (Tokyo, Japan), Masato Watanabe, Masaoki Saito, Keisuke Kasuga, Chika Miyaoaka, Yuki Yoshida, Aya Hirata, Hiroko Nunkawa, Junpei Aso, Yasuo Nakamoto, Manabu Ishida, Kojiro Honda, Saori Takata, Takeshi Saraya, Masafumi Shimoda, Yoshiaki Tanaka, Mikio Saotome, Ken Ohta, Haruyuki Ishii</td>
</tr>
<tr>
<td>PA627</td>
<td>Could red cell distribution width predict COPD severity?</td>
<td>Améni Nâaroura (Tunis, Tunisia), Jihen Ben Amar, Hend Ouertani, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina</td>
</tr>
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</table>
Association of Interleukin-6 and Tumor necrosis factor alpha with COPD severity:
safa marzouki (ben arous, Tunisia), Abir Hedhli, marzouki safa, S Hajtaeib, Khadija Echi, Lilia Laadhar, Yassine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, M Sellami, Meriem Mjid, Besma Dhahri

PS-8 in poster area  
Session 70  
08:00 - 09:30

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

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

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

Tag(s):  
Clinical

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

Response to biologics and clinical remission in the adult GAN severe asthma cohort.
Katrin Milger-Kneidinger (Munich, Germany), Hendrik Suhling, Dirk Skowasch, Annette Holtedirk, Nikolaus Kneidinger, Jürgen Behr, Hartmut Timmermann, Christian Schulz, Olaf Schmidt, Rainer Ehmann, 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

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

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

Tag(s) : Clinical

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

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 Ehmann, Slagjana Stoshikj, Sonja Zejhtmayer, 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, Tina Skjold, Johannes Schmid

Factors predictive of poor adherence to treatment in patients with asthma
Aboubekr Imzil (Agadir, Morocco), Oussama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Yousen Essaid, Fatih Bounoua, Khadija Ait Nasser, Soumaya Ennaciri, Sofiya Farhat, Hanane Ikrou, Nada Boutbagha, Houda Moubachir, Hind Serhane

Role of atopy in occupational asthma
Amira Belkahla (Tunis, Tunisia), Amira Belkahla, Dorra Brahim, Mariem Mersni, Imen Youssef, Najla Mechergui, Ghada Bahri, Hanene Ben Saïd, Soumaya Fenniche, Nizar Ladhari

Impact of smoking on biologicals treatment response in patients from the German Severe Asthma (GAN) Registry
Slagjana Stoshikj (Wien, Austria), Leonie Biener, Jonas Brugger, Christoph Krall, Kathrin Milger, Christian Schulz, Margret Jandl, Rainer Ehmann, Olav Schmidt, Dirk Skowasch, Roland Buhl, Eckard Hamelmann, Christian Taube, Stephanie Korn, Marco Idzko

Impact of inhaled corticosteroids on specific inhalation challenges for diagnosing occupational asthma
Gabriel Lavoie (MONTREAL, Canada), Catherine Lemière

Impact of staphylococcus aureus enterotoxins on clinical responses to omalizumab in severe asthma patients
Wei-Ciao Wu (Taipei, Taiwan), Chih-Ming Weng, Han-Pin Kuo, Chun-Liang Chou
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, Mini 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 Diaz, Eva Martínez Moragón, M. Guadalupe Sanchez Herrero, David Bañes Concejero, 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 Schiffers, Maarten Van Herck, Sonja Zehetmayer, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal

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

Lee Baylis (Apex, United States), Jeremiah Hwee, Lynn 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 Jazic, 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 Meelvanev, Tom Carroll

The incidence of sarcopenia is higher in the group of COPD subjects than non-COPD subjects

Chih-Ming Lin (Taipei, Taiwan), Jihih-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, Linnea Hedman

Rhinovirus specific IgG responses and respiratory health in children and adults of the EGEA cohort

Marion Maucelin (Grenoble, France), Alicia Guillien, Katarzyna Niespodziana, Anne Boudier, Thomas Schlederer, Maja Bajic, Raphael Vernet, Rachel Nadif, Jean Bousquet, Emmanuelle Bouzigon, Rudolf Valenta, 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
**Session 72**

**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>
<th>Presentation</th>
<th>Location</th>
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<tr>
<td>08:30</td>
<td>The Unbiased Biomarkers for the Prediction of Respiratory Disease Outcomes (U-BIOPRED) cohort. Applying systems biology to reveal the mechanisms of severe asthma</td>
<td>London, United Kingdom</td>
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<tr>
<td>08:45</td>
<td>The COPDGene® Study: investigating the underlying genetic factors of chronic obstructive pulmonary disease</td>
<td>Ann Arbor, United States</td>
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<td>09:00</td>
<td>Assessment of the involvement of small airways in asthma: the ATLANTIS study</td>
<td>New York, United States</td>
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### Session 73: 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>
<th>Time</th>
<th>Title</th>
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<td>08:30</td>
<td>Patient's perspective</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>08:35</td>
<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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<tr>
<td>08:50</td>
<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>09:05</td>
<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>09:20</td>
<td>Therapeutic approach and challenges in PPF</td>
<td>Elisabeth Bendstrup (Aarhus N, Denmark)</td>
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<tr>
<td>09:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Session 74: Coral 4+5

**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

**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)
- Chair to be confirmed

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<th>Time</th>
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<tr>
<td>08:30</td>
<td>Health effects of e-liquids, flavours and other chemicals</td>
<td>Sven-Eric Jordt (Durham, NC, United States)</td>
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<tr>
<td>08:45</td>
<td>Environmental damage caused by tobacco farming and manufacturing</td>
<td>Selim Çağmакçı Karakaya (Ankara, Turkey)</td>
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<tr>
<td>09:00</td>
<td>Global burden of tobacco use</td>
<td>Om Prakash Kurmi (Coventry, United Kingdom)</td>
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<tr>
<td>09:15</td>
<td>Greenwashing of the tobacco industry</td>
<td>Elif Daglı (Istanbul, Turkey)</td>
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**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)

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

- **09:30** Discussion and Q&A
  - All Speakers
Aims: to give an epidemiological overview of the obesity and its detrimental effects on general health; to present the most important clinical consequences of obesity on lung health and cardiovascular effects, spanning from early life to adulthood.

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

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

Tag(s): Translational

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

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

08:30 The immune system and obesity-related asthma: what is the link? Deepa Rastogi (Bronx, United States) 694

08:45 Obesity in children and its relationship with sleep Indra Narang (Toronto (ON), Canada) 695

09:00 Why childhood obesity causes respiratory diseases Erick Forno (Indianapolis, United States) 696

09:15 Metabolic determinants of asthma and COPD across ages Miguel Angel Alejandre Alcázar (Köln, Germany) 697

09:30 Discussion and Q&A All Speakers 698
Experts interview: Phenotypes of central sleep apnoea/precision medicine approach in acute respiratory distress syndrome

Tag(s) : Clinical

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

09:10 Phenotypes of central sleep apnoea: therapeutic options and future management perspectives
Winfried J. Randerath (Solingen, Germany)

09:25 Discussion and Q&A
All Speakers

09:35 Precision medicine approach in acute respiratory distress syndrome
Christian Karagiannidis (Cologne, Germany)

09:50 Discussion and Q&A
All Speakers

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

Tag(s) : Clinical

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

OA739 Late Breaking Abstract - A long-term follow-up (LTFU) study of sotatercept for pulmonary arterial hypertension (PAH)

OA740 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 Hooper

OA741 Long term outcome in chronic thromboembolic pulmonary hypertension in the multimodality treatment era: a UK national cohort analysis
Paula Appenzeller (Zurich, Switzerland), Ashwin Reddy, Katherine Buncclark, John Cannon, Karen Shears, Mark Toshner, Dolores Taboada, Stephen Hoole, Gerry Coghlan, David Jenkins, Choo Ng, John Taghavi, Steven Tsui, Nick Sereaton, Alessandro Rugiiero, Luigia D'Errico, Joanna Pepke-Zaba

OA742 Seralutinib improves pulmonary arterial blood vessel volume distribution in pulmonary arterial hypertension (PAH): results of the TORREY phase 2 imaging substudy

OA743 External validation of the European cardiac magnetic resonance risk stratification in the Amsterdam UMC PAH patient cohort

OA744 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. Hoepner, Jens Vogel-Clausen

OA745 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 Bjørkekjær (Kristiansand, Norway), Cosimo Bruni, Patricia Carreira, Paolo Airò, Carmen Pilar Simeón-Aznar, Marie-Elise Truchetet, Alessandro Giollo, Alexandra Balbir-Gurman, Mickael Martin, Christopher P Denton, Armando Gabrielli, Håvard Fretheim, Imon Barua, Helle Bitter, Øyvind Midvedt, Torbild 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 (Zürich, Switzerland), Laura Mayer, Paula Appenzeller, Julian Müller, Simon R. Schneider, Michael Tamm, Andrei M. Darie, Sabina A. Guler, John-David Aubert, Frédéric Lador, Hans Stricker, Jean-Marc Fellrath, Susanne Pohle, Mona Lichtblau, Silvia Ulrich

Altitude related adverse effect and therapeutic benefit of supplemental oxygen in patients with pulmonary vascular disease during an overnight stay at 2500m
Simon Raphael Schneider (Zürich, Switzerland), Julian Müller, Meret Bauer, Laura Mayer, Lea Liöönd, Tanja Ulrich, Michael Furian, Aglaia Forrer, Esther I. Schwarz, Konrad E. Bloch, Mona Lichtblau, Silvia Ulrich

Discussion and Q&A
All Speakers

Brown 3 Session 97 09:30 - 10:45
Oral presentation: Non-volitional assessment and new predictions in respiratory physiology

Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : Physiology, Pulmonary function testing, Imaging, General respiratory patient care
Tag(s) : Clinical
Chairs : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Elizabeth Smith (Beaconsfield (WA), Australia)

Late Breaking Abstract - Accuracy of respiratory gas variables, of fifteen CPET systems during simulated exercise with metabolic simulator.
Tjeu Souren (Utrecht, Netherlands), Bas Van Hooren, Bart Bongers

Title Comparing the use of global lung initiative 2012 vs 2021 predicted values on vital capacity in idiopathic pulmonary fibrosis (IPF) patients.
Kate Donovan (Cambridge, United Kingdom), Joshua Barnes, Karl Sylvester

Reference equations for intra-breath respiratory oscillometry in adults
Chiara Veneroni (Milano (MI), Italy), Alessandro Gobbi, Pasquale Pio Pompiilio, Raffaele Dellaca, Salvatore Fasola, Stefania La Grutta, Agustin Leyva, Janos Porszasz, Silvia Romana Stornelli, Leonello Fuso, Christoph Valach, Robab Breyer-Kohansal, Chiara Contu, Riccardo Inchingolo, Kevin Hodgdon, David A. Kaminsky

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

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

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

Effects of renewed ERS/ATS criteria on classification of significant bronchodilator response
Nena 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, Guilhelm Collier, Ho-Fung Chan, Dave Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Oliver Rodgers, James Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

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

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

Discussion and Q&A
All Speakers
**Brown 1+2**  
**Session 98**  
**09:30 - 10:45**

**Oral presentation:** Improving respiratory care from a primary care perspective  
**Disease(s):** Airway diseases  
**Method(s):** General respiratory patient care, Public health, Imaging, Pulmonary function testing, Epidemiology  
**Tag(s):** Clinical  
**Chairs:** Miguel Román Rodriguez (Palma De Mallorca, Spain), María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain)

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

**Developing a clinical pathway for breathlessness in primary care based on analysis of routine primary care data**
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**
Marko Topalovic (Kassel-Io, Belgium), Maarten De Vos, Julie Maes, Karolien Van Orshoven, Paul Desbordes, Vincent Vanheule, Charlotte Quataert, Isabelle Fovel

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

**Sonographic follow-up of diaphragm function in COVID-19: an exploratory study**
Wytze de Boer (Zwolle, Netherlands), Carlijn Veldman, Mireille Edens, Huij M.M. 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 Terebessyi, Andrew Scarffe, Shannon Sibbald, Cathy Faulds, Tim O’Callahan, Teresa To

**Systematic review of methods of scoring inhaler technique**
Ruth De Vos (Hornedean, United Kingdom), Alexander Hicks, Mitch Lomax, Heather Mackenzie, Lauren Fox, Thomas P Brown, Aopno 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 Tsaligianni, Tracey Lonergan, Siân Williams

**Discussion and Q&A**  
All Speakers

**Blue 1+2**  
**Session 99**  
**09:30 - 10:45**

**Oral presentation:** Lost in translation: new insights into cell-to-cell crosstalk in lung disease  
**Disease(s):** Thoracic oncology, Airway diseases, Interstitial lung diseases  
**Method(s):** Cell and molecular biology  
**Tag(s):** Translational  
**Chairs:** Suzanne Cloonan (Dublin, Ireland), Antonella Dost (Zeist, Netherlands)

**Late Breaking Abstract - Evolution of epithelial-mesenchymal cell circuits in the progression of pulmonary fibrosis**
Laurens De Sadeleer (München, Germany), Yuexin Chen, Christoph Jentzsch, Zhenda Wang, Niyeti Qazi, Niklas Lang, Pascal Albanese, Andris Jankevics, Fabian Theis, Richard Scheltema, Wim Wuyts, Janine Gote-Schniering, Herbert Schiller

**Basophils inhibit tumors by suppressing Tregs**
Nahal Mansouri (Lausanne, Switzerland), Bruno Torchia, Simge Yucel, Christophe Von Garnier, Michele De Palma
Decoding the epithelial-T helper cell signalling axis in human asthmatic airways one cell at a time
Amanda Oliver (Cambridge, United Kingdom), Élo Madissoon, Waradon Sungnak, Marjin Berg, Rakesh Lal Kapuge, Laura Richardson, Claudi Semprich, Anna Wilbrey-Clark, Tessa Gillet, Kerstin Meyer, Martijn Nawijn, Sarah Teichmann

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

GM-CSF increases uptake of Charcot-Leyden crystals in neutrophils and can induce NETopathic airway inflammation
Dóra Paróczai (Deszk, Hungary), Robbe Vermoesen, Helena Aegerter, Bart N. Lambrecht

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

Dendritic cells are defective for improving survival in lung adenocarcinoma
Heloisa Zimermam (Ribeirão Preto, Brazil), Sabrina Setembré Bata, Maria Júlia Faci Do Marco, Mateus Magalhães Lage Moraes, Danilo Tadao Wada, Saulo Brito Silva, Alexandre Todorovic Fabro

IL36γ reduces macrophage phagocytosis in COPD
Harriet Owles (London, United Kingdom), Jonathan R Baker, Peter Fenwick, Carolin K Watson, Karim C Kasmi, Peter J Barnes, Louise E Donnelly

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

Discussion and Q&A
All Speakers
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

Long-term outcomes in critical covid-19 survivors: a 2-year longitudinal cohort
Jessica Gonzalez Gutierrez (Lleida, Spain), Maria Zuil, Iván D. Benitez, Jordi De Batlle, Maria Aguilã, Sally Santistevé, Natalia Varvarã, Aida Monge, Nuria Forns, Rafaela Vaca, Olga Minguëz, Faty Seck, Clara Gort-Paniello, Anna Moncusí-Moix, Ricard Ferrer, Adrián Ceccato, Laia Fernández, Ana Motos, Jordi Riera, Rosario Menéndez, Dario Garcia-Gasulla, Óscar Peñuelas, Gonzalo Labarca, Jesús Caballero, Carme Barberà, David De Gonzalo-Calvo, Antoni Torres, Ferran Barbé

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
All Speakers

Gold
Session 101 10:15 - 11:45
Clinical cases: Lungs on fire: airway diseases?
Aims: to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.
Disease(s): Airway diseases, Pulmonary vascular diseases, Interstitial lung diseases
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) 792
Emer Kelly (Dublin 4, Ireland)

10:37 Case 2 incl. panel discussion and Q&A - Author: B. Martins (Portugal) 793
Marc Miravitlles (Barcelona (CT), Spain)

10:59 Case 3 incl. panel discussion and Q&A - Author: O. E. Terzi (Turkey) 794
Emer Kelly (Dublin 4, Ireland)

11:21 Case 4 incl. panel discussion and Q&A - Author: H. Madsen (Denmark) 795
Marc Miravitlles (Barcelona (CT), Spain)

Silver
Session 102 10:15 - 11:45
Clinical trials session: ALERT 1: pharmacological treatments
Treatment of COPD, asthma, ILD, PCD, and lung transplantation
Chairs: Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)
Discussants: Dave Singh (Manchester, United Kingdom), Discussant to be confirmed

10:15 RCT796
10:22 RCT797
10:29 RCT798
10:36 Wrap-up by discussant and discussion 799
Dave Singh (Manchester, United Kingdom) RCT799
10:58 RCT800
11:05 RCT801
Wrap-up by discussant and discussion
Speaker to be confirmed

Closing remarks
All Speakers

Coral 4+5  Session 103  10:15 - 11:45

Hot topics: Disease modification in pulmonary arterial hypertension

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

Disease(s): Pulmonary vascular diseases

Method(s): Cell and molecular biology  Physiology

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), Chair to be confirmed

10:15  Defining disease modification in PAH
Sand Deep Sahay (Houston, United States)

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

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

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

11:15  Discussion and Q&A
All Speakers

Coral 3  Session 104  10:15 - 11:45

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

Highlights from The Lancet and The Lancet Respiratory Medicine

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

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

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

Tag(s): Clinical

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

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

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

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

10:45  The future of cystic fibrosis treatment: from disease mechanisms to novel therapeutic approaches
Marcus Mall (Berlin, Germany)
### Coral 1 | Session 105 | 10:15 - 11:45
Symposium: Infectious and noninfectious complications of immunosuppressed patients

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

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

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

**Tag(s):** Clinical

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

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

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<th>Time</th>
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<tr>
<td>10:15</td>
<td>Patient's perspective</td>
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<td>10:20</td>
<td>Multidrug-resistant bacterial pulmonary infections: challenges of phage therapy</td>
<td>Mariagrazia Di Luca (Pisa, Italy)</td>
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<tr>
<td>10:35</td>
<td>Fungal infections in solid organ and bone marrow transplant recipients: preventive and treatment strategies</td>
<td>Husain Shahid (Toronto (ON), Canada)</td>
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<tr>
<td>10:50</td>
<td>Chronic lung allograft dysfunction and chronic GVHD: common pathogenic mechanisms and clinical features?</td>
<td>Robin Vos (Leuven, Belgium)</td>
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<td>11:05</td>
<td>CLAD and chronic pulmonary GVHD: old and new therapeutic approaches</td>
<td>Daniel Wolff (Regensburg, Germany)</td>
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<td>11:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Coral 2 | Session 106 | 10:15 - 11:45
Symposium: Obesity and the lung: from wakefulness to sleep

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

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

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

**Tag(s):** Translational

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

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

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<tr>
<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>Niki Ubags (Epalinges, Switzerland)</td>
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| 11:00 | Obesity and sleep-related hypoventilation: new perspectives for clinical management and therapeutic interventions  
Juan Fernando Masa Jiménez (Cáceres, Spain) |
| 11:15 | Discussion and Q&A                                                                  |
|       | All Speakers                                                                      |

**Purple Session 107**  
Mini symposium: Bronchoscopy in challenging situations

**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

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

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

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| 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 Şhojaee (Richmond, United States) |
| 11:00 | Discussion and Q&A                                                                  |
|       | All Speakers                                                                      |

**10:30-11:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**ERS Stand/World Village**

**Session 110**  
Public: Coffee and clean air - 1

**Session 111**  
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

**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)

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

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<td>10:40</td>
<td>Introduction</td>
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<td>10:40</td>
<td>Physical activity assessment and intervention</td>
<td>840</td>
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<td>10:40</td>
<td>Neuromuscular electrical stimulation: in who and how?</td>
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<td>10:40</td>
<td>How to improve balance and reduce falls in people undergoing pulmonary rehabilitation</td>
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<td>10:40</td>
<td>Implementing mindfulness interventions into pulmonary rehabilitation</td>
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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)

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<td>Introduction</td>
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<td>10:40</td>
<td>Assessment of diastolic function in COPD patients</td>
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<td>10:40</td>
<td>Cardiac ultrasound assessment of right heart function</td>
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<td>10:40</td>
<td>Cardiac ultrasound for the management of pulmonary embolism</td>
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<td>10:40</td>
<td>Hemodynamic consequences of non-invasive ventilation</td>
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Oral presentation: Novel insights for the management of interstitial lung disease of known cause
### OA849
**Late Breaking Abstract - A pilot study of telemonitoring to detect acute exacerbations in fibrosing interstitial lung diseases**
Yuyuan Jia (YinChuan, China), Hongyan Fu, Juan Chen

### OA850
**The automated e-Lung CT algorithm is more prognostic than lung function in patients with non-IPF fibrotic ILD; a validation study**
Peter George (London, United Kingdom), Christian Remnison-Jones, Giacomo Benvenuti, Wassim Bou-Zeid, Olivier Joly, Stephen Gerry, Claire Fernandez, George Harston, Anand Devaraj

### OA851
**Dendritic cells as a potential new tool in predicting patient's survival in airway-centered interstitial fibrosis**
Mateus Magalhães Lage Moraes (RIBEIRÃO PRETO, Brazil), Wagner Moneda Telini, Sabrina Setembre Batah, Maria Julia Faci Do Marco, Heloisa Acurcio Zimermam, Danilo Tadao Wada, Andrea De Cássia Vernier Antunes Cetlin, Marcel Koenigkam Santos, Tales Rubens De Nadai, Alexandre Todorovic Fabro

### OA852
**Electronic nose technology detects connective tissue disease-associated interstitial lung disease**
Karen Moor (Rotterdam, Netherlands), Iris G. Van Der Sar, Marlies S. Wijsenbeek

### OA853
**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, Benoit Ernst, Clio Ribbens, Béatrice André, Renaud Louis, Leticia Gallardo Estrella, Jonne Engelberts, Jean-Paul Charbonnier

### OA854
**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 Bjørkekjaer, Mike Becker, Cathrine Brunborg, Cosimo Brunio, Phuong Phuong Diep, Rucscandra Dobrotu, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midttvedt, Carina Mihai, Øyvind Molberg, Olivier Distler

### OA855
**Rheumatoid arthritis and idiopathic pulmonary fibrosis: a bidirectional Mendelian randomisation study**
Joshua Solomon (Denver, United States), Olivia C. Leavy, Leticia Kawano-Dourado, Ian D. Stewart, Jennifer K. Quint, Raphael Borie, Bruno Crestani, Louise V. Wain, R. Gisli Jenkins, Philippe Dieude, Cosetta Minelli

### OA856
**Discussion and Q&A**
All Speakers

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### Brown 3  Session 115  11:00 - 12:15
**Oral presentation: Advances in the epidemiology, diagnosis and treatment of tuberculosis and non-tuberculous mycobacterial disease**

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

Tuberculosis drives impaired lung function: a systematic review and meta-analysis
Sharena Ratnakumar (London, United Kingdom), Sally Hayward, Emma Dennyney, Lucy Goldsmith, Rebecca Evans, William Checkley, Delia Goletti, Catherine Ong, Mateusz Gotowiec, Junkai Zhu, Jon Friedland, Joanna Porter

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

Diagnostic accuracy of TB PCR in bronchoalveolar lavage samples, TRIBE - a multicentre prospective UK study
Mira Park (London, United Kingdom), Giovanni Satta, Joan Nanan, Beatriz Tomas-Cordero, Meg Coleman, Laura Martin, Osman Hatem, Kavina Manalan, Arnab Datta, Ashley Whittington, Parul Kalia, Michael Loebinger, Helen Burgess, Lianne Castle, Heinke Kunst, Ronan Breen, Anne Dunleavy, Mohammad Munavvar, Prasheena Naran, Marc Lipman, Thomas Gorsuch, Pranab Halder, Onn Min Kon

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

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

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

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

Discussion and Q&A
All Speakers

Brown 1+2 Session 116 11:00 - 12:15
Oral presentation: Interpretative strategies for lung function testing
Disease(s): Airway diseases Interstitial lung diseases Respiratory critical care
Method(s): Pulmonary function testing Physiology General respiratory patient care Epidemiology Imaging
Tag(s): Clinical
Chairs: Monika Franczuk (Warszawa, Poland), Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

Late Breaking Abstract - Lung volumes differentiate emphysema- vs. airway disease-dominant pathologies with distinct clinical features in tobacco-exposed persons with preserved spirometry in SPIROMICS

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

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

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

Machine learning can predict patterns of pulmonary function
Michael Tisi (Toronto, Canada), Joyce Wu, Zoltán 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, Maximillian Thomas

Defining and grading an obstructive ventilatory disease: ATS/ERS interpretative strategies of 2005 vs 2021
Balsam Barkous (ARIANA, Tunisia), Khouloud Kchaou, Chaima Briki, Sirine Jamli, Saloua 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 Sailey, 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 Lewthwaite, Jean Bourbeau, Wan Tan, Linus Schiöler, Andrew Brotto, Michael Stickland, Dennis Jensen

Discussion and Q&A
All Speakers

Blue 1+2 Session 117 11:00 - 12:15

Oral presentation: Risks of hospitalisation and mortality from chronic lung diseases
Disease(s): Airway diseases
Method(s): Epidemiology Public health Cell and molecular biology
Tag(s): Clinical

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 Offedal, Cathrine Thomsen, Jose Urquiza, 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, Jamie 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 Pelegri, 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 (Aalborg, Denmark), Emil Fosbøl, Søren Paaske Johnsen, Ulla Weinreich Møller, Jan Valent

Respiratory symptom clusters and cause-specific mortality in a representative adult population
Danil Lisik (Gothenburg, Sweden), Lowie Vanfleteren, Rani Basna, Linnea Hedman, Linda Ekerljung, Fredrik Nyberg, Göran Wennergren, Anne Lindberg, Hannu Kankaanrantu, 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 Talaee, 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
All Speakers

Yellow 1+2+3 Session 118 11:00 - 12:15
Oral presentation: From the transcriptome landscape to innovative preclinical models in lung diseases

Disease(s) : Airway diseases Interstitial lung diseases
Method(s) : Cell and molecular biology Physiology
Tag(s) : Translational

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

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

Late Breaking Abstract - Volatile organic compounds in exhaled breath reflect physiological changes in ultramarathon runners
Hsuan Chou (Cambridge, United Kingdom), Kayleigh Arthur, Elena 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 Baruthaler, 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 Ara, Masahiro Kojima, Kenji Nishikawa, Eiji Okanari, Yuuko Shinohara

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), ( ), Mahr 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

Discussion and Q&A
All Speakers

Studio (White) Session 119 11:45 - 13:20
Year in review: Paediatric year in review
Aims: to provide an update on four topics in paediatric respiratory medicine, namely, paediatric asthma in low-income settings, imaging in paediatric respiratory diseases, primary ciliary dyskinesia and long-term consequences of preterm birth; to highlight the most recent and significant literature and developments relating to these topics.

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

Method(s): Epidemiology, Imaging, Public health

Tag(s): Clinical

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

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

11:45 - 12:00
Asthma care in low-resource settings: towards solutions
Refiloe Masekela (Durban, South Africa)

12:00 - 12:15
Imaging in paediatric respiratory diseases: where are we now?
Pierluigi Ciet (Rotterdam, Netherlands)

12:15 - 12:30
Discussion and Q&A
All Speakers

12:30 - 12:45
Break
All Speakers

12:35 - 12:50
Primary ciliary dyskinesia: diagnosis and management
Amelia Shoemark (Dundee (Angus), United Kingdom)

12:50 - 13:05
Preterm birth and long-term consequences
Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)

13:05 - 13:20
Discussion and Q&A
All Speakers

12:15-13:15
INDUSTRY LUNCHTIME SYMPOSIUM
SEE PAGE 1

PS-1 in poster area

Poster session: Rehabilitation of chronic respiratory diseases

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

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

Tag(s): Clinical

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

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

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

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

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

PA955
Effect of adding cognitive training to pulmonary rehabilitation program in patients with chronic obstructive pulmonary diseases: a randomized controlled trial.
Oussama Tabka (Evry courcouronnes, France), Marwa Mekki, Amal Acheche, Monia Zaouali, Yassine Trabelsi
PA956 Comparison of the effects of pulmonary and cognitive telerehabilitation in severe COPD
Amine Atac (Istanbul, Turkey), Esra Pehlivian, Fulya Senem Karaahmetoglu, Zeynep Betul Ozcan, Halit Cnarka, Mustafa Cortuk, Kursad Nur Baydlili, Erdogan Cetinkaya

PA957 Chronic obstructive pulmonary disease in elderly
Sabrine Majdoub Fehri (Nabeul, Tunisia), Rahma Sellami, Inen Ketata, Hamida Kwass

PA958 Breathlessness in different domains of life: a population-based, cross-sectional study
Vanessa Brunelli (Cooma, Australia), Slavica Kochovska, Diana Ferreira, Sungwon Chang, Deirdre Morgan, Thomas Similowski, Miriam Johnson, Magnus Ekström, David Currow

PA959 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

PA960 Effects of a respiratory physiotherapy program on extraesophageal reflux disease symptoms
Pavla Horova (Pardubice, Czech Republic), Martin Dvoracek, Ana Oliveira, Katerina Raisova

PA961 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 Singhl, Rod S Taylor, Perform Collaborative Group

PA962 Correlation between a new incremental step test and the incremental shuttle walk test in people with COPD
Rui Vilarinho (Maia, Portugal), Tânia Gonçalves, Cáitá Caneiras, António Mesquita Montes

PA963 Comprehensive Geriatric Assessment for people with COPD and frailty starting pulmonary rehabilitation: a mixed methods feasibility RCT
Lisa Jane Brighton (London, United Kingdom), Catherine J Evans, Morag Farquhar, Katherine Bristowe, Aleksandra Kata, Jade Higman, Margaret Ogden, Claire M Nolan, Deokhee Yi, Wei Gao, Maria Kouloupoulou, Sharmeen Hasan, Karen Ingram, Stuart Clarke, Kishan Parmar, Eleni Baldwin, Claire J Steves, William D C Man, Matthew Maddocks

PA964 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, Joyca Lacroix, Martijn Spruit, Daisy Janssen

PA965 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 Mckeough, Boe Ramaldini, Vanessa Lee, Debbie Mccowen, Jamie Newman, Scott Monsaghi, Hayley Longbottom, Sandra J Eades, Jennifer A Alison

PA966 Is longer really better? Results of a real-life study comparing once- versus twice-weekly home-based pulmonary rehabilitation session in people with COPD.
Sarah Gephine (Perenchies, France), Olivier Le Rouzic, Cecile Chenivesse, Jean-Marie Grosbois

PA967 Development of a questionnaire to capture perspectives of COPD patients undergoing pulmonary rehabilitation (PR): An ongoing process.
Adis Halilovic (Hartford, United States), Bruce Bernstein, Rebecca Crowell, Mary Gawlicki, Jane Reardon, Kendra Williams, Richard Zuwallack

PA968 Association of physical activity and CAT score in a longitudinal COPD cohort
Maximilian Boesch (St.Gallen, Switzerland), Frank Rassouli, Florent Baty, Martin Brutsche

PA969 Physical performance of non-small cell lung cancer patients 3 months post treatment initiation compared to healthy peers
Eva Arens (Knokke, Belgium), Kirsten Quadflieg, Sarah Haesevoets, Fien Hermans, Maarten Criel, Marc Daenen, Eric Derom, David Rutens, Martijn A. Spruit, Dieter Stevens, Veerle Surmont, Michiel Thomeer, Chris Burtin, Heleen Demeyer

PA970 Pulmonary rehabilitation survey in Japan in 2022; comparison with survey in 2014
Hideki Katsura (Tokyo, Japan), So Imamura

PS-10 in poster area
Session 130 12:30 - 14:00
Poster session: Biomarkers in asthma
<table>
<thead>
<tr>
<th>PA971</th>
<th>Particles in exhaled air (PExA) - the protein composition in children</th>
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<tbody>
<tr>
<td>Kristiina Malmstrom (Helsinki, Finland), Marjut Lehtinen, Ulrich Bergmann, Seppo Sarna, Venla Aalto, Erik Qvist, Maria Jüusela</td>
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<th>PA972</th>
<th>Burden of disease in asthma, stratified by eosinophils levels: a UK biobank study</th>
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<tr>
<td>Catia C Proença (Basel, Switzerland), Aurelie Chekrin Martinot, Oscar Dumoulin, Mathieu Rose</td>
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<tr>
<th>PA973</th>
<th>Exhaled volatiles to rule out asthma in symptomatic, untreated adults</th>
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<tbody>
<tr>
<td>Ran Wang (Manchester (Greater Manchester), United Kingdom), Waqar Ahmed, Emma Barrett, Laura Healy, Sarah Drake, Clare Murray, Angela Simpson, Stephen Fowler</td>
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<tr>
<th>PA974</th>
<th>Circulating cell-free miRNA as biomarkers of asthma severity</th>
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<tr>
<td>Piero Soccor (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</td>
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<tr>
<th>PA975</th>
<th>The role of alarmins in mixed neutrophilic/eosinophilic asthma</th>
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<tr>
<td>Elisa Arrigo (Orbassano, Italy), Vitina Carriero, Francesca Bertolini, Giuseppe Guida, Stefano Levra, Gino Villetti, Daniela Miglietta, Fabio L. M. Ricciardolo</td>
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<tr>
<th>PA976</th>
<th>Characteristics of Aspergillus sensitized severe asthma patients in a single-center SHARP cohort</th>
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<tr>
<td>Katarina Pelicon Slabanja (Šempas, Slovenia), Matevž Harlander, Saša Rink, Simone Hashimoto, Jacob K. Sont, Elisabeth H. Bel, Sabina Skrgat</td>
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<tr>
<th>PA977</th>
<th>Methacholine challenge test versus nitrogen washout in patients with suspicion of asthma and normal spirometry.</th>
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<tr>
<td>Aline Stalder Siebeneicher (Basel, Switzerland), Desiree Schumann, Meropi Karakioulaki, Nora Braschler, Andrei Darie, Michael Tam, Daiana Stolt</td>
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<tr>
<th>PA978</th>
<th>Inflammatory phenotype categorized by proximal and distal airway in patients with stable asthma</th>
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<tr>
<td>Kensuke Fukumitsu (Nagoya, Japan), Yoshihiro Kanemitsu, Keima Ito, Hirono Nishiyama, Tomoko Tajiri, Yuta Mori, Satoshi Fukuda, Takehiro Ohmura, Hirotugu Okubo, Ken Maeno, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi</td>
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<th>PA979</th>
<th>Muscle function in moderate to severe asthma: association with functional and clinical outcomes</th>
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<tr>
<td>Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Tim Van Zutphen, Huib A.M. Kerstjens, Anneke Ten Brinke</td>
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<tr>
<th>PA980</th>
<th>Association between neutrophil-to-lymphocyte ratio and severity of asthma exacerbation</th>
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<tr>
<td>Yoshr Aloulou (Manouba, Tunisia), Houda Snene, Hana Blibeck, Rym Cheour, Sameh Belhadj, Jalloul Daghfous, Nedia Mehiri, Nozha Ben Salah, Bechir Louzir</td>
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<tr>
<th>PA981</th>
<th>Correlation between FeNO and level of adherence to inhaled corticosteroids in pediatric asthma patients in a developing country</th>
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<tr>
<td>Pedro David Vargas Duque (Bogota, Colombia), Daniela Cleves, Rannieri Acuna Cordero, Paula Aguilera Otalvaro, Beth Camargo, Ricardo Arístizabal Duque, Carlos Rodriguez Martinez</td>
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<th>PA982</th>
<th>Treatable traits and their impact on asthma outcomes in a multi-racial difficult asthma cohort</th>
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<tr>
<td>Kundan Reddy Saripalli (Singapore, Singapore), Nicole Sieow, Wilson Chan, Xue Ning Choo, Anthony Yiu, Tunn Ren Tay</td>
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<th>PA983</th>
<th>Are lipid mediators correlated to asthma features?</th>
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<td>Meriem Mjid (Tunis, Tunisia), Bochna Jamoussi, Abir Hedhli, Khadija Euchi, Sameh Hadj Taieb, Yacine Ouahchi, Sana Cheikh Rouhou, Sonia Toujani, Moncef Fekih, Besma Dahri</td>
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<tr>
<th>PA984</th>
<th>Diagnostic values of FeNO, allergosorbent test and serum immunoglobulin E level in mild asthma patients with normal spirometry</th>
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<tr>
<td>Dae Sung Hyun (Daegu, Republic of Korea), Kyung Chul Kim, Chi Young Jung, Keum Ju Choi</td>
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<tr>
<th>PA985</th>
<th>Clinical characteristics, biomarkers, and lung function of adolescent vs adult asthma patients</th>
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<tr>
<td>Kevin Murphy (Omaha, United States), Alison Church, Robert S. Zeiger, David A. Beuther, Robert A. Wise, Joan Reibman, Maureen George, William Mccann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin Coyne, Bradely E. Chipps</td>
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<th>PA986</th>
<th>Acoustic biomarkers in asthma monitoring</th>
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<tr>
<td>Karolina Wieczorek (London, United Kingdom), Zofia Przyspa, Diana Velazquez-Pimentel</td>
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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 Ahitian, Adel Mansur

Comparision of changes observed in forced midexpiratory flow of patients who underwent spirometry with both positive and negative bronchodilator test.
Cristina Sánchez Fernández (Oropesa, Spain), Walther Ivan Girón Matute, Zichen Ji, Javier De Miguel Diez, Luis Puente Maestu

Sputum cell counts and FeNO levels in patients treated with anti-IgE and anti-IL-5/IL-5R: Evidence for a dissociation between sputum eosinophil counts and FeNO levels
Mare Sabbe (Olme, 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

Poster session: Smoking cessation

Healthy lungs for life for schools – developing an early life intervention to prevent chronic adult lung disease (a CADSET pilot project)
Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Jessica Denning, Paola Pierucci

Effectiveness of smoking cessation program in hospitalized patients
Dilek Karadoğan (Rize, Turkey), Esin Bilgin 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
Houda Rouis (Ariana, Tunisia), Nour Mahmoud, Chirine Moussa, Abdelnader Mahdi, Maalej Sonia

Smoking behavior change and the risk of pneumonia hospitalization among patients with diabetes mellitus
Dong-Woo Han (Seoul, Republic of Korea), Wonyoung Jung, Kyu Na Lee, Kyungdo Han, Dong Wook Shin, Sei Won Lee

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

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

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

COMPARISON OF RESPIRATORY SYMPTOMS AMONG ADULTS WITH VERSUS WITHOUT VAPOING, 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

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

Changes in smoking behavior among healthcare professionals after COVID-19 pandemic  
Hana Blibech (Ariana, Tunisia), Soumaya Debiche, 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 Garbi (Sfax, Tunisia), Rahma Gargouri, Nour Gargouri, Ahmed Djhia Elleuch, Sameh Msaad, Nedia Moussa, Samy Kammoun

Predicting factors of the success of smoking cessation  
Takwa Bejaoui (Tunis, Tunisia), Rahma Gargouri, Mariem Ayadi, Ahmed Djhia 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

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

Correlation of COPD Assessment Test score and severity of disease in non-smoking COPD patients.  
Ajay Kumar Verma (Lovekow (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, Shoaib 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 Panafinan, 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, Josefine Eklof, Louise Lindhart Toennesen, Jonas Bredeford Boel, Christian Østergaard Andersen, Ram Benny Dessau, Jon Torgny Wilcke, Pradeesh Sivapalan, Charlotte Ulrik, Jens Ulrik Stærh Jensen

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

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

Impact of stigma and inhaler counseling among geriatric asthma/COPD patients: a pilot study  
Saqib Ahmed-Chowdhury (Chittagong, Bangladesh)

PS-12 in poster area

Poster session: Global burden and management of chronic obstructive pulmonary disease

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

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Impact of stigma and inhaler counseling among geriatric asthma/COPD patients: a pilot study  
Saqib Ahmed-Chowdhury (Chittagong, Bangladesh)
Dietary flavonoids and ventilatory function in adults from the multinational Burden of Obstructive Lung Disease (BOLD) Study

Mulubirhan Assefa Alemayohu (Mekelle, Ethiopia), Maria Elisabetta Zanolin, Lucia Cazzoletti, Karima El-Rhazi, Hasan Hafizi, Asaad Ahmed Nafees, Kirthi Gunasekera, Mahesh Padukudru Anand, Talant Sooronbayev, Peter Burney, Vanessa Garcia-Larsen

Risk of mortality and cardiovascular events in patients with chronic obstructive pulmonary disease treated with azithromycin, roxithromycin, clarithromycin and amoxicillin

Imane Alispahic (Rødovre, Denmark), Josefín Eklof, Alexander Svorre Jordan, Pradeesh Sivapanal, 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 Szekeanez, Krisztina Bogos, Hajnalka Vago, Anita Kamondi, Ferenc Fekete, Janos Szlaviék, Gyorgy Surjan, Orsólyá 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 Codesido, Carmen Diego Roza, Elvira Clavero Fernández

Effect of smoking on the development of chronic obstructive pulmonary disease in young individuals: a nationwide cohort study

Chiwook Chung (Seoul, Republic of Korea), Kyu Na Lee, Kyungdo Han, Dong Wook Shin, Sei Won Lee


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

Risk of chronic lower respiratory disease prior to development of inflammatory bowel disease: A population-based cohort study

Ulla Møller Weinreich (Ålborg, Denmark), Henrik Albæk Jacobsen, Anastasia Karachalia Sandri, Tine Tine Jess, Lone Larsen

Biomarkers of systemic inflammation are not associated with the risk of COPD exacerbations

Jens Ellingsen (Uppsal, Sweden), Kristina Bröms, Maria Hårdstedt, Marieann Högman, Christer Janson, Karin Lisspers, Andreas Palm, Björn Ställberg, Andrei Malinovschi

The economic and health burden of COPD in Western Europe: forecasting through 2050

Elroy Boers (Calgary, Canada), Angier Allen, Meredith Barrett, Adam Benjafiel, 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 Benjafiel, Carlos Nunez, Atul Malhotra, Jadwiga Wedzicha

Are physical activity levels different between non-frail and pre-frail patients with COPD?

Sara Pimenta (Meirinhas, Portugal), Sofia Flora, Ana Alves, Nádia Hipólito, Ana Oliveira, Nuno Morais, Cândida G. Silva, Alda Marques, Dina Brooks, Chris Burtin, Filipa Januário, Fátima Rodrigues, Vitória Martins, Lília Andrade, Joana Cruz

Reproducibility of the six-minute walk test on a 20-meter course in patients with COPD

Jeannet Delbressine (Horn, Netherlands), Alex Van 't Hul, Dennis Jensen, Pei Zhi Li, Jean Bourbeau, Wan C. Tan, Martijn Spruit, Anouk Vaes

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 Everaert, 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 Battista Santos (São Bernardo do Campo, Brazil), Estêfane 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 Flora, Jessica Gordo, Diogo Pinto, Rúbén Caceiro, Sara Pimenta, Fernando Silva, José Ribeiro, Marcelo Brites-Pereira, Nuno Morais, Cândida G. Silva, Ana Oliveira, Chris Burtin, Dina Brooks, Alda Marques, Joana Cruz

Experiences of interprofessional collaboration and the care delivery pathway for patients with COPD.
Sara Lundell (Umeå, 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, Cristiana Santos, Adriana Simões, Cláudia Rodrigues, Inês Amado, Alda 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 Resqueiti, Marina Lyra Lima Cabral Fagundes, Prícila 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), Ëjvind 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 Ning Morancho, Guillem Hernandez, Francesc López, Irene Aldás, M Matute Villacis, Antoni Marin, Agnes Hernández, 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, Alda 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, Tania 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 Pancera (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, Nataliha Ribeiro Berdu, Ana Beatriz Matos Bernardo, Cláudio Luiz Castro Gomes De Amorim, Simone Dal Corso, Fabio De Oliveira Pitta, Manuela Karloah, 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
Poster session: Advances in the diagnosis of tuberculosis

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Chairs:** Delia Goletti (Roma (RM), Italy), Chair to be confirmed

**PA1051**
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

**PA1052**
Clinical and radiological predictors of tuberculous meningitis
Rebekah Young (London, United Kingdom), Erik Skylland, Akhilesh Sharma, Veronica White, Simon Tiberi, Susan Dart, Heinke Kunst

**PA1053**
Usage of Silver Nanoparticles to Restore Rifampicin Efficacy for Rifampicin-Resistant M.Tuberculosis Cultures
Nino Kiria (Tbilisi, Georgia), Teona Avaliani, Nino Bablishvili, Giorgi Phichkhaia, Nana Kria

**PA1054**
Quantifying Myeloid-derived suppressor cells in pleural effusion can distinguish Tuberculosis from Pneumonia
Eun Sun Kim (Seoul, Republic of Korea), Je-In Youn

**PA1055**
Diagnostic accuracy of adenosine deaminase in GeneXpert positive tuberculosis pleural effusion.
Zulfiquar Ali Detho (Karachi, Pakistan), Faisal Faiyaz Zuberi

**PA1056**
Interleukin 32 as a Potential Marker for Diagnosis of Tuberculous Pleural Effusion
Juan Du (Beijing, China)

**PA1057**
Determinants of tuberculosis diagnosis delay
Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luis Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Paula Matilde, Natália André, Paula Raimundo, Teresa Falcao

**PA1058**
Isolated positivity of NAAT in bronchial aspirate - What entity?
Fernando Pereira da Silva (Vila Real, Portugal), Filipa Jesus, Joana Ribeiro, Sara Braga, Élin Almeida, Mariana Tavares, Madalena Reis, Filomena Luis, Luís Ferreira

**PA1059**
Cell-mediated immune responses against specific antigen for diagnosing pulmonary Mycobacterium avium complex disease stage
Yoshirio Yamashita (Nagasaki, Japan), Ikkoh Yasuda, Takeshi Tanaka, Toru Ikeda, Mayumi Terada, Masahiro Takaki, Yoshiko Tsuchihashi, Norichika Asoh, Sohkiichi Matsumoto, Konosuke Morimoto

**PA1060**
CyTOF analysis for differential immune cellular profiling between latent tuberculosis infection and active tuberculosis
Jaehee Lee (Daegu, Republic of Korea), Ji Eun Park

**PA1061**
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

**PA1062**
The error rate of phenotypic drug susceptibility tests in tuberculosis patients according to specimen type.
Hong-Joon Shin (Gwangju, Republic of Korea), Bo Gun Kho, Young-Ok Na, Jae-Kyeong Lee, Tae-Ok Kim

**PA1063**
Sensitivity and Specificity of screening and confirmatory tests to detect TB disease: a systematic review of reviews (RoR).
Dominik Zenner (London, United Kingdom), Tahreem Chaudry, Ibrahim Abubakar, Frank Cobebens

**PA1064**
Expression levels of maturation and activation markers in immune cells as a correlate of anti-tuberculosis therapy monitoring.
Irene Latorre Rueda (Badalona (Barcelona), Spain), Sergio Díaz Fernández, Zoran Stojanovic, Raquel Villar-Hernández, Marco Fernández, María Luiza De Souza-Galvão, Jorge Abad, María Ángeles Jiménez-Fuentes, Guillel Safont, Nadiia Tytarenko, Mariia Finohenova, Cristina Prat, Jose Dominguez

**PA1065**
Phenotypic susceptibility testing of pyrazinamide in lineage 1 M.tuberculosis isolates – a North London cohort experience
Santino Capocci (London, United Kingdom), Rebecca Duff, Ana Garcia Mingo, Stephen Morris-Jones

**PA1066**
 Contribution of smear-negative pulmonary tuberculosis in interferon gamma releasing assay-confirmed nosocomial transmission
YA-JEN YANG (Taipei City, Taiwan), Jann-Yuan Wang, Chi-Tai Fang, Yee-Chun Chen
PA1067  Implications of LTA4H Genetic Polymorphism on Pulmonary Tuberculosis (PTB) outcome – a Pilot Study
Devashayam Jesudas Christopher (Vellore (Tamil Nadu), India), V R Sangeeth Priyadarshan, Deepa Shankar, Christunessa Soundararajan Christudass, Kotamreddy Sreedevi, Barney Isaac, Balamugesh Thangakunam

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

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

PS-15 in poster area  Session 135  12:30 - 14:00
Poster session: Bronchiectasis diagnostics and outcomes

Disease(s) : Airway diseases, Pulmonary vascular diseases
Method(s) : Cell and molecular biology, General respiratory patient care, Pulmonary function testing, Epidemiology, Physiology, Imaging, Pulmonary rehabilitation
Tag(s) : Clinical
Chairs : Michael Loebinger (London, United Kingdom), Oriol Sibila-Vidal (Barcelona, Spain)

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

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

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

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

PA1074  The spectrum of structural lung changes in bronchiectasis: Analysis of 524 EMBARC CTs.
Angelina Pieters (Helmond, Netherlands), Tjeerd Van Der Eerden, PierLuigi Ciet, Stefano Alberti, Pierre-Regis Burgel, Megan L Crichton, Pieter C Goeminne, Michal Shteinberg, Francesco Blasi, Michael R Loebinger, Charles S Haworth, Daan Caudri, James D Chalmers, Harm Awm Tiddens

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

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

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

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

PA1079  Bronchiectasis are associated with lower lung function in lung cancer screening participants
A K L Kwee (Zurich, Switzerland), Tjeerd van der Eerden, Pieter Goeminne, Veronica Boneschi, Robert M. Groen, Jordan C. V. Aerts, Firdaus A. A. Mohamed Hoesien

PA1080  Clinical outcome prediction by HRCT and Echocardiography Assessment of Pulmonary Hypertension in Patients with Bronchiectasis
Ina Jeong (Seoul, Republic of Korea), Inhan Lee, Jieun Kim, Joon-Sung Joh, Ji Yeon Lee, Joohae Kim, Sooim Sin
Assessment of malnutrition with L1- skeletal muscle mass in non-cystic fibrosis bronchiectasis patients and the effects on exacerbation
Dilara Ömer Topçu (Bursa, Turkey), Aslı Görek Dilektaşlı, Esra Kunt Uzaslan, Nevzat Uslu, Mehmet Karadağ

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

Nutritional status in non-cystic fibrosis bronchiectasis
Dilara Ömer Topçu (Bursa, Turkey), Aslı Görek Dilektaşlı, 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 Ryeol 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 Loebinger, Michal Shteinberg, Francesco Blasi, Harm Awn Tiddens, Dan Caudri, James D Chalmers

Variation in clinical characteristics of bronchiectasis according to lung function: an observational study from a lower middle income country
Amna 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

LSC - 2023 - Recombinant Histone Deacetylase 6 (rHDAC6) treatment protects against influenza A virus (IAV ) infection and disease in vivo
Katie Daly (Booker Bay, Australia), Alan Hsu, Kristy Nichol, Jemma Mayall, Jay Horvat, Phil Hansbro, Peter Wark

The in vivo antiviral efficacy of a novel inhalation drug candidate in a mouse treatment and post-exposure prophylaxis model
Thomas Bjarnsholt (Copenhagen, Denmark), Jinglin Zhou, Elin Jørgensen, Jan Pravsgaard Christensen, Marianne Thuy Duong Le, Christopher Burton

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

LSC - 2023 - APC: T cell interactions in the lung: exploring the generation and phenotype of memory CD4 T cell s during influenza virus infection
Kerrie Hargrave (Glasgow, United Kingdom), Julie Worrell, Euan Brennan, Thomas Purnell, Megan Macleod

LSC - 2023 - Harnessing T regulatory cells to treat respiratory infections
Ntombizodwa Makuyana (Cambridge, United Kingdom), Oliver Burton, James Dooley, Adrian Liston
PA1096
Engineered live bacteria as a new therapy for P. aeruginosa biofilms in ventilator-associated pneumonia
Alba Soler-Comas (Barcelona, Spain), Laia Fernández-Barat, Rubén López-Aladid, Nil Vázquez-Burgos, Anna Motos, Irene Rodríguez Arce, Alicia Broto, Roberto Cabrera, Kasra Kiarostami, Flavia Galli, Blanca Lloneh, Carolina Segura, Luis Serrano, Antoni Torres

PA1097
Peripheral blood gene expression changes at exacerbation of COPD: an observational cohort study
Holly R. Keir (Dundee (Angus), United Kingdom), Merete B. Long, Chloë Hughes, Amy Gilmour, Yan Hui Giam, Thomas Pembridge, Lilia Delgado, Rebecca Hull, James D. Chalmers

PA1098
Deciphering the role of pulmonary α-(1,2)-fucosylation in pneumococcal pneumonia
Cengiz Goekeri (Berlin, Germany), Alina Nettesheim, Kerstin Linke, Sebastian Schickinger, Ulrike Behrendt, Denise Barthel, Peter Pennitz, Elena Lopez-Rodriguez, Vladimir Gluhovic, Konrad Schmidt, Leila Bechtella, Anne Voß, Sandra Kunder, Kevin Pagel, Achim D. Gruber, Sarah Hedrich, Matthias Ochs, Martin Wittenrath, Geraldine Nouailles

PA1099
In vitro identification of essential genes of carbapenems resistant OprD mutant Pseudomonas aeruginosa
Cléophée VAN MAELE (Reims, France), Ségalène Caboche, Thomas Blanchot, Audrey Brisebarre, Christophe Audebert, Anaëlle Muggeo, Thomas Guillard

PA1100
Immunoinformatics investigation of B- and T- cell epitopes in the VP2 protein of the BOCA respiratory virus
Erasmia Rouka (Larissa, Greece), Kerasia Goupou, Sotirios Zarogiannis

PA1101
Palmitoleic acid suppresses Pseudomonas aeruginosa quorum sensing-controlled virulence and relieves infection-induced lung injury
lei han (Shanghai, China), Yishu Xue, Jianwei Gao, Qiang Fu, Ping Shao, Min Zhang, Fengming Ding

PA1102
Whole transcriptome profile underlies the COVID-19 bimodal phenotypes
Sabrina Setsembre Batah (Ribeirão Preto, Brazil), Heloisa Zimermam, Maria Júlia Marco, João Paulo Almeida, Danilo Wada, Amanda Schnepper, Rosbom Carvalho, Alexander Fabro

PA1103
In silico investigation of B- and T-cell epitopes in the M2 protein of the H5N6 influenza virus
Erasmia Rouka (Larissa, Greece), Sotirios Kompouris, Sotirios Zarogiannis

PA1104
Sand Particles Increase Pneumococcal Adhesion to Respiratory cells in vitro
Lisa Miyashita (London, United Kingdom), Beverley Coldwell, David Wertheim, Ian Gill, Simon Crust, Nemesio M. Pérez, Nick Petford, Jonathan Grigg

PA1105
Profiling the immune response in patients hospitalised with lower respiratory tract infection
Merete Bridget Long (Dundee, United Kingdom), Holly R Keir, Yan Hui Giam, Thomas Pembridge, Rebecca C Hull, Lilia Delgado, Amy Gilmour, Chloë Hughes, Hollian Richardson, James D Chalmers

PA1106
The plasmidome in bronchiectasis

PA1107
Late Breaking Abstract - MV130, a Trained Immunity-based Vaccine, in the prevention of RRTIs in adults: A retrospective study
Laura Conejero Hall (Madrid, Spain), Karla Montalbán, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, José Luis Subiza

PA1108
Late Breaking Abstract - An exploratory study highlighting the use of night-time cough frequency as a potential marker of disease surveillance in patients with Primary ciliary dyskinesia and Cystic fibrosis.
Evie Robson (Leeds, United Kingdom), Surinder Birring, Richard Feltbower, Christopher O'Callaghan, Daniel Peckham

PA1109
Late Breaking Abstract - The clinical application value of a novel chip in the detection of pathogens in adult pneumonia: a multi-center prospective study in China
Ruixue Zhang (Beijing, China), Yingying Liu, Lianjun Lin

PS-17 in poster area
Session 137  12:30 - 14:00
Poster session: Screening, patient pathways and quality of life in the lung cancer world
Disease(s) : Thoracic oncology, Airway diseases
Method(s) : Epidemiology, Imaging, Pulmonary function testing, General respiratory patient care, Public health, Surgery, Palliative care
Tag(s) : Clinical
Chairs : Wouter H. van Geffen (Leeuwarden, Netherlands), Joanna Domagala-Kulawik (Warszawa, Poland)
Assessing lung cancer risk in young and elderly patients in a lung cancer screening programme  
Aranzazu Campo Ezquibel (Pamplona (Navarra), Spain), Begoña Ortiz, Ana Belén Alcaide, Juan Berto, Teresa Pérez-Warnisher, Carmen Felgueroso, Jesús Puayó, 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 Bhattacharji 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, Giovanna Maria Stanfoca Casagrande

Smoking cessation integrated with a lung cancer screening program: most effective method?  
Anna Núñez (Barcelona, Spain), Sonia Baëza, Ester Cervera, Laura Rodriguez, Adela Gonzalez, Ignasi Garcia Olivé, Roxana Chirinos, Felipe Andreo, Antóni 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 (, United Kingdom), Abdul Nasimudeen, Jason Page, Ante Marusic, Sue Matthews, Moe Kyi

Results and challenges of lung cancer screening in Serbia  
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Tomi Kovacevic, Bojan Zaric, Darijo Bokan, Dragan Dragišić, Goran Stojanović

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

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 Kokkotou (N.Faliro (Piraeus), Greece), Emmanouil Panagiotou, Mirsini Livanou, Anastasia Karachaliou, Ioannis Gkiozos, Maria Mani, Lamprini Stournara, Sofia Tsagouli, Ioannis Vathiotes, 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, Jiash Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette Mcwilliams, 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, Jiash Li, Siyuan Pang, Linda Lin, Paul Fogarty, Fraser Brims, Annette Mcewilliams, Emily Stone, Renee Manser

Outcome after curative treatment of patients diagnosed with clinical stage I lung cancer in the Yorkshire Lung Screening Trial  
Hannah R Bailey (Leeds, United Kingdom), Philip A J Crosbie, Michael Darby, Kevin N Franks, Rhian Gabe, Martin P T Kennedy, Hui Zhen Tam, Alessandro Brunelli, Matthew E J Callister

Is the local implementation of NOLCP 72 hour access to CT scan reducing delays in the lung cancer pathway?  
Bethany Jones (Bedfordshire, United Kingdom), Lukas Kalinke, Nick Adams

The effect of delays on survival patients with lung cancer  
Aman Kacem (Sousse, Tunisia), Jihene Ghariani, Imen Kharrat, Anis Maatallah, Rahma Benjazia, Yosri Benali, Hend Zorgati, Sourour Belhajyoussef, Jihene Ayachi, Asma Gaddour

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

Outcomes of patients who receive systemic therapy for metastatic lung cancer after diagnosis via emergency presentation  
Rachel Solomons (London, United Kingdom), Neena Patel, Ketan Patel, Adam Januszewski
PA1127 How does lung cancer progression impair quality-life of caregivers
Rahma Gargouri, Nour Kallel, Olfa Bouaziz, Nessrine Kallel, Ilhem Yangui, Walid Feki, Samy Kammoun

PA1128 Association between quality of life questionnaire at diagnosis and survival in patients with lung cancer
Sukjin Bae (Seoul, Republic of Korea), Chang Dong Yeo

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

PS-18 in poster area

Session 138 12:30 - 14:00
Poster session: Biomarkers in interstitial lung disease

Disease(s): Interstitial lung diseases  Airway diseases
Method(s): Epidemiology  Imaging  Physiology  Public health  Pulmonary function testing  General respiratory patient care  Cell and molecular biology
Tag(s): Translational

Chairs: Manuela Funke-Chambour (Bern, Switzerland), Chair to be confirmed

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

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

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

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

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

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

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

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

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

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

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

PA1141 Exploring the Potential of Serum Periostin as a Predictive biomarker for Early-Onset Idiopathic Pulmonary Fibrosis: A Follow-Up Study
Mingtao Liu (Guangzhou, China), Zhangkai J. Cheng, Haiyang Li, Runpei Lin, Mingshan Xue, Yanjun Li, Jiaxin Wang, Chenwei You, Haisheng Hu, Baojun Guo, Huimin Huang, Baoqing Sun
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<th>PA1142</th>
<th>Lipid metabolism in interstitial lung diseases: serum amyloid A a new potential biomarker in idiopathic pulmonary fibrosis</th>
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<td>Lucia Vietri (Ferrara, Italy), Miriana D'Alessandro, Laura Bergantini, Paolo Cameli, Elena Bargagli</td>
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<th>PA1143</th>
<th>Lactate dehydrogenase predicts disease progression in patients with IPF</th>
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<td>Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lene Collatz, Emilia Kassandra Achilles Åttingsberg, Sahe Bürhan Shaker</td>
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<th>PA1144</th>
<th>Circulating prosasin associates with presence and severity of idiopathic pulmonary fibrosis (IPF)</th>
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<td>Jamie Todd (Durham, United States), Hilary Mulder, Megan L Neely, John A Belperio, Joseph A Lasky, Tracy R Luckhardt, Scott M Palmer, Christian Hesslinger, Thomas Sch Lange, Thomas B Leonard</td>
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<th>PA1145</th>
<th>Serum Krebs von den Lungen-6 (KL-6) level as a prognostic biomarker in patients with interstitial lung abnormalities (ILA)</th>
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<td>Hye Kyeong Park (Goyang-Si, Republic of Korea), Young-Soon Yoon, Jae-Uk Song, Hyung Koo Kang</td>
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<th>PA1146</th>
<th>Circulating biomarkers in children and adolescents with fibrosing interstitial lung disease (ILD)</th>
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<td>Robin Deterding (Aurora, United States), Kevin K Brown, Steven Cunningham, Emily M Deboer, Matthias Griese, Nicolaus Schwerk, Lisa R Young, Carina Ittrich, Thomas Sch Lange, Martina Gahlemann, David Warburton</td>
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<th>PA1147</th>
<th>Machine learning-based identification of RNA and protein biomarkers predictive of disease progression or death in the IPF-PRO Registry</th>
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<td>Kolja Becker (Biberach, Germany), Julia Soellner, Thomas Sch Lange, Christian Hesslinger, Richard Vinisko, Thomas B Leonard, Jamie L Todd, Megan L Neely, Ramona Schmid</td>
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<tr>
<th>PA1148</th>
<th>Predicting factors of acute exacerbation of idiopathic pulmonary fibrosis</th>
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<tr>
<td>Morgane Browarski (Rennes, France), Chloe Rousseau, Pierre Chauvin, Stéphanie Guillot, Mathieu Lederlin, Mallorie Kerjouan, Stéphane Jouneau</td>
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<tr>
<th>PA1149</th>
<th>Histological and molecular characterization of lung cancer (LC) in patients with and without interstitial lung disease (ILD)</th>
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<td>Gíoele Castelli (Padova, Italy), Matteo Scordari, Nicol Bernardinello, Elisabetta Cocconcelli, Mariaenrica Tinè, Giulia Grisostomi, Serena Bellani, Fiorella Calabrese, Paolo Spagnolo, Elisabetta Balestro</td>
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**Poster session: Novel insights in the pathogenesis of interstitial lung disease**

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

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

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

**Chairs**: Paolo Cameli (Siena (SI), Italy), Chair to be confirmed

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<th>PA1150</th>
<th>Hypersensitivity Pneumonitis associated to foam pillows and mattresses - mold analysis</th>
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<tr>
<td>Onofre Moran Mendoza (Kingston (ON), Canada), Gurmohan Dhillon, Alexander Boag</td>
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<tr>
<th>PA1151</th>
<th>Systemic inflammatory indices in silicosis due to occupational exposure to silica agglomerates (SA).</th>
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<td>Alfonso Marin Andreu (San Fernando, Spain), Antonio León Jiménez, Gema Jiménez-Gómez, Raquel De Andrés David, Antonio Hidalgo Molina, Antonio Campos Caro</td>
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<tr>
<th>PA1152</th>
<th>Capelozzi's necrosis is a novel histological biomarker for the diagnosis of chronic microaspiration in fibrosing interstitial lung diseases</th>
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<td>Alexandre Todorovic Fabro (Ribeirao Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimermam, Maria Júlia Facci Do Marco, Mateus Magalhães Lage Moraes, Wagner Moneda Telini, Adriana Paes Leme, Romenia Ramos Domingues, Robson Cristina Carvalho, Amanda Piveta Schnepper, André Antunes Ceti Lin, Danilo Tadao Wada, Marcel Koenigkam Santos, Tales Rubens Nadai, José Antônio Baddini-Martinez, Vera Luiza Capelozzi</td>
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<tr>
<th>PA1153</th>
<th>Pathology and radiology of interstitial lung disease in patients with telomere-related genes mutations</th>
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<td>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</td>
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<th>PA1154</th>
<th>Dendritic cells profile is related to differential diagnosis in airway-centered interstitial fibrosis</th>
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<td>Mateus Magalhães Lage Moraes (RIBEIRÃO PRETO, Brazil), Wagner Moneda Telini, Sabrina Setembre Batah, Maria Julıa Facci Do Marco, Heloisa Acurcio Zimermam, Danilo Tadao Wada, André De Cássia Véron Antunes Ceti Lin, Marcel Koenigkam Santos, Tales Rubens Nadai, Alexandre Todorovic Fabro</td>
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<tr>
<th>PA1155</th>
<th>Serum metalloproteinase 7 as a biomarker of progressive pulmonary fibrosis</th>
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<tr>
<td>Márcia Araújo (Porto (Porto), Portugal), Marília Belfrão, Oksana Sokhatska, Natalia Melo, Patricia Caetano Mota, Holder Novais Bastos, André Terras, Luis Delgado, António Morais</td>
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</table>
The neutrophil to lymphocyte ratio in broncho-alveolar lavage in hypersensitivity pneumonitis: preliminary results
Marius-Alexandru Coteț (Bucuresti, Romania), Andreea Maftei (Mutu), Ionela Belaconi, Ştefan Dumitrache-Rujinski, Claudia Lucia Toma, Marina Ruxandra Oţelea

Peripheral immune cell profiling reveals distinct immune hallmarks in progressive pulmonary fibrosis
Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recasens, Tamara Cruz, Nuria Albacar, Gemma Lopez Saiz, Xavier Alsina, Mauricio Rojas, Alvar Agusti, Rosa Faner, Jacobo Sellares

Enhancing the Detection of Interstitial Pneumonia with Autoimmune Features and Idiopathic Pulmonary Fibrosis through the Harmony of Matrix Metalloproteinases and Clinical Diagnosis
Mingtao Liu (Guangzhou, China), Zhangkai J. Cheng, Haiyang Li, Zhiman Liang, Huimin Huang, Baoqing Sun

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

Evaluation of pro-inflammatory proteins and joint disease activity in individuals with interstitial lung disease associated with rheumatoid arthritis.
Karol Jazmin Nava Quiroz (México, Mexico), Jorge Rojas-Serrano, Espiridión Ramos-Martínez, Mayra Mejía, Gloria Pérez-Rubio, Ivette Buendia-Roldán, Pedro Rodríguez-Henríquez, Rammés Falfán-Valencia

Pulmonary Silicosis due to different sources of exposure. Clinical Features
Denisse Paulette Mediavilla Angulo (Barcelona, Spain), Gulo David Granados Rosales, Cristina Aljama Vizcarra, Julia Sampol Sirvent, Ihigo Ojanguren Arranz, Xavier Muñoz Gall, Cristina Berastegui Garcia, Ana Villar Gomez, Jaune Ferrer Sancho

Novel lipid mediators in pulmonary fibrosis.
Marissa O’Callaghan (County Cork, Ireland), Amina Jouida, Elizabeth J Tarling, Aurelie Fabre, Elizabeth F Redente, James P. Bridges, Michael P. Keane, Cormac McCarthy

Smoking and hypersensitivity pneumonitis: a single Institution retrospective analysis
Francesco Bertuccio (Pavia, Italy), Nicola Baio, Vittorio Chino, Valentina Ferroni, Simone Montino, Valerio Partenope, Lucrezia Pisani, 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, Patrícia Mota, Inês Neves, Susana Guimarães, Conceição Souto Moura, José Miguel Jesus Pereira, André Carvalho, Luís Delgado, Oksana Sokhataska, 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 Enghelmayher (Ciudad Autónoma Buenos Aires, Argentina), Anabella Rodriguez, Tamara Arias, Maria José Lopez Meiller, Marina García Carrasco, Maria Pino, Cecilia Pisoni, Ana Maria Putruеле, Gustavo Medina

Interstitial pneumonia with autoimmune features (IPAF) and connective tissue disease-associated interstitial lung disease (CTD-ILD) – differences in parameters measured in bronchoalveolar lavage (BAL)
Ewa Miadlikowska (Łódź, Poland), Joanna Milkowska-Dymanowska, Adam Jerzy Białas, Wojciech Jerzy Piotrowski

Frequency and background of progressive fibrosing interstitial lung disease (PF-ILD) in patients with anti-aacocamyl tRNA 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-Billá, Isabel Alfaya, Aina Teniente-Serra, Bibiana Quirant, Amalia Moreno, Pere Serra-Mitjà, Marian Garcia-Numínez, Eva Martinez-Cáceres, Antoni Rosell Gratacos, Iñaki Salvador-Corres

PS-2 in poster area Session 140 12:30 - 14:00
Poster session: The lung after COVID-19; sequelae and functional recovery

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<th>Disease(s)</th>
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<td>Respiratory critical care</td>
<td>General respiratory patient care</td>
<td>Clinical</td>
<td>Rainer Gloeckl (Schoenau am Koenigssee, Germany), Damien Bachasson (Paris, France)</td>
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<td>PA1170</td>
<td>Mechanisms of impaired gas diffusion following hospitalisation for severe COVID-19 pneumonitis utilising nitric oxide</td>
<td>Leigh Seccombe (Sydney (NSW), Australia), David Heath, Claude Farah, James Di Michiel, Elizabeth Veitch, Matthew Peters</td>
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<td>PA1171</td>
<td>Characterisation of cardiopulmonary exercise tolerance in patients with COVID19 sequelae</td>
<td>Achim Grünewaldt (Darmstadt, Germany), Tara Azem, Carla Bellinghausen, Cornelius Lask, Christian Hügel, Alexander Seeger, Yascha Khodamoradi, Eva Herrmann, Maria Vehreschild, Gernot Rohde</td>
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<td>PA1174</td>
<td>Association of Composite Physiologic Index with dyspnea, disability and submaximal exercise tolerance in COVID-19 survivors</td>
<td>Sirine Jamli (Kairouan, Tunisia), Khouloul Kchaou, Balsam Barkous, Chaima Briki, Saloua Ben Khamsa Jameleddine</td>
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<td>PA1175</td>
<td>Correlation between Distance-Saturation Product and Composite Physiologic Index in COVID-19 survivors</td>
<td>Sirine Jamli (Kairouan, Tunisia), Khouloul Kchaou, Soumaya Khaldi, Chaima Briki, Balsam Barkous, Saloua Ben Khamsa Jameleddine</td>
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<td>PA1176</td>
<td>Predictors of reduced 6-minute walk distance among critically ill COVID-19 survivors</td>
<td>Rahma Ben Jazia (Sousse, Tunisia), Dhouha Ben Braiek, Safa Ben Mansour, Yosri Ben Ali, Hend Zorgati, Haifa Sfar, Oussama Saadaoui, Ameni Kacem, Anis Maatallah, Jihene Ayachi</td>
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<td>PA1178</td>
<td>Exercise capacity in a cohort of patients with post-Covid-19 syndrome</td>
<td>Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Päivi Piirilä</td>
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<td>PA1179</td>
<td>Gender differences in hospitalized COVID-19 patients: Focusing on markers of endothelial dysfunction and the survival rate</td>
<td>Audrey Borghi Silva (São Carlos (SP), Brazil), MURILO OLIVEIRA, Bianca Domingos, Guilherme Back, Cássia Goulart, Audrey Borghi-Silva</td>
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<td>PA1180</td>
<td>Unexplained lung function differences in dyspneic non-hospitalised Long-COVID (NLHC) patients and asymptomatic fully recovered COVID-19 controls - the EXPLAIN study</td>
<td>Kher Ng (London, United Kingdom), James Grist, Laura Saunders, Guilhem Collier, Avanna Laws, Gabriele Abu Eid, Nina Kaith, Scarlett Strickland, Lotta Gustafsson, Siby Thomas, Lily Dryhurst-Pearce, Laurie Smith, Violet Matthews, Kenneth Jacob, Jenny Rodgers, Amany Elbeihairy, Samantha Jones, Helen Davies, Alexander Horsley, Roger Thompson, Emily Fraser, Jim Wild, Fergus Gleeson</td>
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<td>PA1181</td>
<td>High fat mass is associated with non-recovery among females following COVID-19 hospitalisation</td>
<td>Hamish Mcauley (Leicester, United Kingdom), Cara Flynn, George Mills, George Mills, Molly Baldwin, Charlotte E Bolton, Christopher E Brightling, Omer Elnemra, Paul L Greenhalf, William D-C Man, Sally J Singh, Michael Steiner, Louise V Wain, Janet M Lord, Rachael A Evans, Neil J Greening</td>
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<td>PA1182</td>
<td>Dose post -exercise heart rate recovery time predict subclinical heart damage in non-severe covid survivors? A lesson from cardiopulmonary exercise test</td>
<td>Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Seyyedeh Zahra Photook Kiae, Hossein Kazemizadeh, Atfeh Roumi, Omalbanin Paknejad</td>
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<td>PA1183</td>
<td>Long term pulmonary sequelae of COVID-19 pneumonia among recovered healthcare workers using High Resolution Chest CT scan and mMRC score</td>
<td>Gayle Francez Monique Tandoc (Baguio City, Philippines), Maria Luella De Leon, Bernard Demot, Cajulao Thea Pamela, Haya Larry, Dulya Tyrone, Pagalan Jason</td>
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<td>PA1184</td>
<td>Combination of tachycardia, brain fog, and dizziness in a cohort of patients with post-Covid-19 syndrome</td>
<td>Timo Mustonen (Vantaa, Finland), Mari Kanerva, Ritva Luukkonen, Arja Uusitalo, Päivi Piirilä</td>
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PA1185  Long COVID symptoms in intensive care unit survivors, a prospective study
Rahma Ben Jazia (Sousse, Tunisia), Yosri Ben Ali, Safa Ben Mansour, Khalil Attia, Dhouha Ben Braiek, Hend Zorgati, Sourour Bel Haj Youssef, Amani Kacem, Anis Maatallah, Ahmed Jamel, Houda Belkhiria, Jihene Ayachi

PA1186  Long term changes in pulmonary function among ICU COVID19 survivors

PA1187  Exercise Training Improves Exercise Capacity and Quality of Life in Long Haul COVID Patients-Preliminary Results
William Stringer (Long Beach, United States), Asghar Abbasi, Michelina Iacovino, Jaqueline Tosolini, Chiara Gattoni, Christopher Hwe, Mary Burns, Charles Lanks, Carrie Ferguson, Harry Rossiter, Richard Casaburi

PA1188  Exercise tolerance in patients with long COVID-19 syndrome: a combined cardiopulmonary exercise testing and echocardiographic study
Angelos Vontetsianos (ATHENS, Greece), Nikolaos Chynkiamis, Maria Ioanna Gounaridi, Christina Anagnostopoulou, Evaggelia Koukaki, Agamemnon Bakakos, Evangelos Oikonomou, Emmanouil Vavouranakis, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

PA1189  One year evolution of abnormal breathing during exercise in patients with post COVID-19 condition
Kristofer Hedman (Linköping, Sweden), Anna Von Gruenewaldt, Frida Nikesjö, Karolina Kristenson, Eva Nylander

PA1190  Diagnosing pulmonary arterial hypertension in the Real World
Rogier Klok (Twello, Netherlands), R James White, Julia Harley, Mark Small, Carmine Dario Vizza, Dominik Lautsch

PA1191  Management of acute decompensated pulmonary arterial hypertension: results of the ERS Clinical Research Collaboration PHAROS survey
Laurent Savale (Le Kremlin-Bicêtre, France), Harm-Jan Bogaard, Irene Lang, Pilar Escrivan-Subias, Frances De Man, Abilio Reis, Marion Delcroix, Olivier Sitbon

PA1192  As time goes by... 2022 versus 2011 ERS-CRC PHAROS survey on managing pulmonary arterial hypertension (PAH) in European expert centres
Adam Torbiciki (Otwock, Poland), Luke S Howard, Gergely Meszaros, Joanna Pepke-Zaba, Abilio Reis, Olivier Sitbon, Marion Delcroix On Behalf Of Pharois Investigators

PA1193  Impact of the new definition of precapillary pulmonary hypertension on the prevalence of portopulmonary hypertension in patients referred for liver transplantation
Hélène Pringuez (Paris, France), Audrey Baron, Anne Roche, Xavier Jaïs, Athénaïs Boucly, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

PA1194  Treprostinil transition from subcutaneous to intravenous in pediatric patients with Pulmonary Hypertension undergoing a risky procedure.
Gina Bustamante (Barcelona, Spain), Ana Diez, Alba Torrent, Maria Morillo, Ignacio Iglesias, Sandra Rovira, Montserrat Pujol, Antonio Moreno

PA1195  End-of-life healthcare resource utilization and costs in patients with PAH: a real-world analysis
Tracey Weiss (Coopersburg, United States), Dena Rosen Ramey, Ngan Pham, Nazneen Shaikh, Dajun Tian, Xiaohui Zhao, Aimee Near, Steven Nathan

PA1196  Macitentan tadalaft fixed dose combination (FDC) in patients with pulmonary arterial hypertension (PAH): A subgroup analysis from A DUE
Pavel Jansa (Jirny, Czech Republic), Kelly Chin, Ekkehard Grünig, Jakob Hauser, Matthieu Pannaux, Hany Rofael, Fenling Fan

PA1197  A real-word evidence study of PH-LD, PH-HD and PAH in France, Germany, and the UK
John Wort (London, United Kingdom), Juergen Behr, Vincent Cottin, David Kiely, Michael Kreuter, Olivier Sitbon, Aurélie Chekroun Martinot, Catia C. Proenca, Miriam Fernández Delgado, Gabriela Bacchini Jeanneret
PA1198  Treatment-associated changes in cardiopulmonary exercise test variables: upfront combination vs monotherapy in pulmonary arterial hypertension
   Andrea Baccelli (Milano, Italy), Rocco Rinaldo, Rachel Davies, Francesco Lo Giudice, Gulammehdi Haji, Michele Mondoni, Stefano Centanni, Luke Howard

PA1199  Living with pulmonary hypertension – a cross-sectional survey of UK patients
   Iain Armstrong (sheffield, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith

PA1200  Rodatristat ethyl: characterization of reductions in peripheral serotonin supportive of ELEVATE 2, a Phase IIb clinical study for pulmonary arterial hypertension
   Courtney McKernan (Durham, United States), Michelle Palacios, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring

PA1201  Pulmonary arterial hypertension with comorbidities – does dual therapy have a role?
   Julia Thomas (Dumfries, United Kingdom), Harrison Stubbs, Martin Johnson, Colin Church, Melanie Brewis

PA1202  Initial dual oral combination therapy in patient with pulmonary arterial hypertension and cardiovascular comorbidities
   Athénais Boucly (Le Kremlin Bicètre, France), Laurent Savale, David Montani, Xavier Jaïs, Marc Humbert, Olivier Sitbon

PA1203  The impact of comorbidities on inhaled treprostinil treatment in patients with pulmonary arterial hypertension
   Vallerie McLaughlin (Ann Arbor, United States), Rahul Argula, Shelley Shapiro, Eric Shen, Hyoshin Kim, Meredith Broderick

PA1204  Methamphetamine and idiopathic PAH: Similar treatment, similar outcomes
   Cole Uhland (tucson, United States), Angela Gibbs, Michael Insel, Saad Kubba, Franz Rischard

PA1205  Use of Long-term Oxygen Therapy in Patients With Pulmonary Hypertension in Spain
   Rodrigo Torres Castro (Barcelona, Spain), Gregorio Miguel Pérez Peñate, Jesús Pérez Sagredo, Rafael Bravo Marqués, Clara Soto Abánades, Purificación Ramírez Martín, Víctor M. Becerra Muñoz, Pilar Escrivan Subías, Joan Albert Barberà, Isabel Blanco, On Behalf Of The Rehab Investigators

PA1206  A UK national patient survey of attitudes towards aspects of novel clinical trial design in pulmonary hypertension
   Joseph Newman (Cambridge, United Kingdom), Shaun Clayton, Mary Ferguson, Iain Armstrong, Elisa Ferrer-Mallol, Elin Haf Davies, Mark Toshner

PA1207  The UPHILL study: a nutrition and lifestyle intervention to improve quality of life for patients with pulmonary arterial hypertension
   Chermaine Kwant (Den Haag, Netherlands), Frances De Man, Frans Van Der Horst, Harm-Jan Bogaard, Anton Van Noordegraaf

PA1208  A randomized study to evaluate the effects of single-dose MK-5475 co-administered with sildenafil on systemic hemodynamics
   Mahesh J. Patel (Rahway, United States), Ednan K. Bajwa, Dawn Cislak, John Palcza, Tom Reynders, Jenny Barthson, Eseng Lai, S. Aubrey Stoch

PA1209  Rodatristat ethyl: peripheral serotonin targeting with low risk for impacting mood supportive of ELEVATE 2, a Phase IIb clinical study for pulmonary arterial hypertension
   Michelle Palacios (Cary, United States), Courtney McKernan, Jill Denning, Himanshu Naik, Howard Lazarus, Steve Wring

PS-3 in poster area  Session 142  12:30 - 14:00
Poster session: Acute respiratory distress syndrome

Disease(s):  Respiratory critical care  Interstitial lung diseases  Airway diseases
Method(s):  Public health  General respiratory patient care  Respiratory intensive care  Physiology  Imaging  Epidemiology
Tag(s):  Clinical

Chairs:  Lieuwe D.J. Bos (Amsterdam, Netherlands), Chair to be confirmed

PA1210  ARDS mortality prediction model using evolving clinical data and chest x ray imaging
   Ana Cysneiros (Lisboa, Portugal), Tiago Galvão, Nuno Domingos, Pedro Jorge, Luis Bento

PA1211  Development and validation of a diagnostic model for acute respiratory distress syndrome based on volatile organic compounds in exhaled breath
   Shiqi Zhang (Amsterdam, Netherlands), Laura A. Hagens, Nanon F.L. Heijnen, Marcus J. Schultz, Tom Van Der Poll, Marry R. Smit, Ronny M. Schnabel, Dennis C.J.J Bergmans, Lieuwe D.J. Bos
PA1212 Modeling lung ventilation in de novo acute respiratory failure: a bench study
Elise Artaud Macari (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Christian Caillard, Robin Thevenin, Clemence Roussel, David Debeaumont, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clément Médrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

PA1213 Physiological effects of lung protective ventilation in patients with lung fibrosis and usual interstitial pneumonia pattern versus primary ARDS: a preliminary matched-control study
Roberto Tonelli (Modena, Italy), Salvatore Grasso, Andrea Cortegiani, Lorenzo Ball, Giulia Bruzzi, Antonio Moretti, Francesco Murgolo, Rossella Di Mussi, Dario Andrisiani, Filippo Gozzi, Ivana Castaniere, Riccardo Fantini, Luca Tabbi, Stefania Cerri, Anna Valeria Samarelli, Giulia Rainieri, Giacomo Grasselli, Enrico Clini, Alessandri Marchioni

PA1214 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, Clément Médrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

PA1215 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

PA1216 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, Yong Ju Lee, Yoon Hee Kim, Kyung Won Kim, Myung Hyun Sohn, Soo Yeon Kim

PA1217 In Taiwan Comparing ARDS Severity: Berlin Definition vs Lung Injury Score
Chang Yujen (Taichung City, Taiwan), Chi Shuhua

PA1218 Time to disrupt VILI with mixed high-frequency oscillatory and negative-pressure ventilation?
Daniel Black (Chermside, Queensland, Australia), Liliana Black, Simon Black

PA1219 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, Christian Caillard, Marie-Anne Melone, Gurvan Le Bouar, Pierre-Alexandre Roger, Luis-Carlos Molano, Francis-Edouard Gravier, Tristan Bonnevie, Clément Médrinal, Mathieu Salaun, Antoine Cuvelier, Christophe Girault

PA1220 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

PA1221 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 Mühiz, Irene Aldàs Criado, Monica Matute Villacis, Julio Alfaro Alvarez, Ana Nuñez Condominas, Antoni Rosell Gratacós, Jorge Abad Capa, Olga Parra Ordaz

PA1222 Methodological approaches for the determination of diaphragm atrophy and dysfunction during invasive ventilation.
Jens Spiesshoefer (Aachen, Germany), Mehdhi Senol, Binaya Regmi, Faniry Ratsimba, Oscar Gorol, Mustafa Elfeturi, Benedikt Jörn, Alexander Kersten, Michael Dreher

PA1223 Relationship between cytokine storm and hospital mortality in severe coronavirus disease-2019
Je Hyeong Kim (Ansan, Republic of Korea), Beong Ki Kim, Su Kim, Yu Jin Kim, Seung Heon Lee, In Bum Suh

PA1224 Clinical and demographic risk factors for the development of ARDS among severe COVID-19 patients
Marelyn Jao (Quezon City, Philippines), Windfield Tan

PA1225 Late Breaking Abstract - Controversial risk factors for severe COVID-19

PA1226 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

PA1227 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
EARLY DETECTION OF LUNG CANCER BY METABOLIC ANALYSIS APPLIED TO SERUM SAMPLES BEFORE CLINICAL DIAGNOSIS IN HIGH-RISK PATIENTS.

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

A prospective study of NSCLC patients investigating treatment response and resistance mutations

Jana Laszkowski (Kiel, Germany), Michael Forster, Georg Hemmrich-Stanisak, Andre Franke, Malene Støchkel Frank

Screening of potential protein biomarkers in Bronchoalveolar Lavage Fluid (BALF) for early-stage lung adenocarcinoma with diagnostic value by Liquid chromatography MS analysis (LC-MS/MS)

Huohuan Tian (Chengdu, China), Linhui Yang, Shisheng Wang, Tao Su, Hui Zhu, Sai Yang, Hao Yang, Dan Liu

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

Adam Szpechciński (Warszawa, Poland), Małgorzata 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 isoform-selective SIK inhibitors in vitro and in vivo

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

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), Karoshsh 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

Güzel Karimidjanova (Tashkent, Uzbekistan), Dano Egamberdieva

Smoking effects over experimental lung cancer model

Laura Sánchez Carretero (Madrid, Spain), Sandra Pérez Rial, Adele Chloe Cardeñosa Pérez, Oderay Mabel Cedeño Díaz, Jordi Llop, Jesús Ruiz-Cabello Osuna, Luis Seijo, Germán Peces-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-Arylaminoypyrimidine identifies lysosomal cathepsin L activation critical for acute lung injury
shiyi yang (hangzhou, China), Kaijun Chen, Min Zhang, Zhangchu Jin, Zhoyang 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 Jheng, 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, Barbro Melgert, Fabrizio Facchinetti, Reinoud Gosens

Virlaza® Efficiently Inhibited LPS-induced Acute Lung Injury
Rodolfo De Paula Vieira (Anápolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Anamei Silva-Reis, Boris Brill, Manoel Carneiro Oliveira-Junior, Edision 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 Abély, Christelle Coraux

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

The clinical and pathogenetic roles of ITIH4 in particulate matter-related emphysema
Kang-Yun Lee (New Taipei City, Taiwan), Kuan-Yuan Chen, Sheng-Ming Wu, Hsiao-Chi Chuang, Shu-Chuan Ho

A non-Canonical cGAS-CREB Pathway in Airway Epithelium inhibits LPS-induced Acute Lung Injury
zhangchu Jin (, China), Zhehua Shao, Wengi Diao, Anyi Guo, Shiyi Yang, Yinling Han, Yinfang Wu, Yun Zhao, Yanping Wu, Jiaxin Shen, Songmin Ying, Chao Zhang, Wen Li, Huhao Shen, Zhihua Chen, Fugui Yan

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

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

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

Application of intermittent hypoxia to precisely-cut tissue slices: a novel ex vivo model for studying the parenchymal effects of obstructive sleep apnea (OSA)
Isaac Almendros (Barcelona, Spain), Alicia Jurado, Anna 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 Álvarez Ruiz De Larrinaga, Andrés Sánchez Barón, Mercedes Codina Marcet, Mónica De La Peña Bravo, Antonià Barceló Bennasar, Daniel Morell-Garcia, Javier Pierola Lopetegui, José Antonio Peña Zarza, Maria Concepción Piñas Cebrián, Susana Garcia Fernández, Carme Ferrer Quintana, Sabina Perello Rosello, Alberto Alonso Fernández

PD-L1+ small extracellular vesicles in obstructive sleep apnea syndrome
Wojciech Trzezpiur (Angers, France), Sylvain Recoquillon, Grégoire Justeau, Jérémie Riou, Carmen Martinez, Ramaroson Andriantsilohaina, Frédéric Gagnadoux
PA1272
Effects of CPAP therapy on molecular breath pattern in newly diagnosed OSA
Jonas Herth (Zürich, Switzerland), Felix Schmidt, Noriane A. Sievi, Stefan Malesevic, Patrick Baumgartner, Sarah Basler, Matteo Bradicich, Maurice Roeder, Esther I. Schwarz, Malcolm Kohler

PA1273
Measuring value of telemonitoring in obstructive sleep apnea patient pathway optimization in hospital: a Spanish example
Sara Correia Pinto (Porto, Portugal), Monica Gonzalez, Melike Deger Wehr, Peter Pitts

PA1274
Hypoxic burden to guide CPAP treatment allocation in OSA: findings from the ISAACC trial
Lucia Pinilla (Lleida, Spain), Neda Esmaeili, Gonzalo Labarca, Olga Mínguez, Dolores Martínez, Jorge Abad, Maria José Masdeu, Olga Mediano, Carmen Muñoz, Valentin Cabriab, Joaquín Dura-Cantolla, Mercé Mayos, Ramón Coloma, Josep Maria Montserrat, Mónica De La Peña, Wen-Hsin Hu, Andrew Wellman, Scott Sands, Ludovicò Messineo, Ferran Barbè, Manuel Sánchez-De-La-Torre, Ali Azarbarzin

PA1275
Central sleep apnea treated by a constant low dose of CO2 supplied by a novel device
Yuanming Luo (Guangzhou (Guangdong), China), Yongyi Chen, Shanfeng Liang, Luguang Wu, Andrew Wellman, R Doug Mcevoy, Joerg Steier, Danny J Eckert, Michael I Polkey

PA1276
Peri-Operative Outcomes of Bariatric Surgery in Obstructive Sleep Apnoea: a Single-Centre Cohort Study
Cristiano van Zeller (London, United Kingdom), Richard Brown, Michael Cheng, Johan Meurling, Barbara Mcgowan, Joerg Steier

PA1277
Treatment of OSA initiating with CPAP at 10 cmH2O
Yan Chen, Lu Wang, Qishan Wei, Yingxin Wu, Shanfeng Liang, Joerg Steier, Yuanming Luo

PA1278
Is CPAP pressure titration always necessary?
Qishan Wei (Guangzhou, China), Qiong Ou, Shanfeng Liang, Cuiwenh Huang, Simin Liu, Yuanming Luo

PA1279
Effects of adaptive servo-ventilation on quality of life and symptoms according to its treatment indication—a subgroup analysis from the read-av registry
Oliver Munt (Ascheberg, Germany), Michael Arzt, Pepin Jean-Louis, Heinzer Raphael, Adam Benjafield, Holger Woehrle

PA1280
Atomoxetine and spironolactone combine to reduce obstructive sleep apnea (OSA) severity and blood pressure (BP) in hypertensive patients.
Alan R. Schwartz (Baltimore, United States), Laura Herpel, Richard Bogan, Bruce Corser

PA1281
Association of physical activity and BMI on sleep disordered breathing and sleep related symptoms.

PA1282
The link between the sphingolipid rheostat and obstructive sleep apnea
Péter Horváth (Budapest, Hungary), Lilla Búdi, Dániel Hammer, Rita Varga, György Losonczy, Ádám Tárnoki, Dávid Tárnoke, Martina Mézsáros, Andás Bikov

PA1283
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 Slma

PA1284
Obstructive sleep apnea and falls in COPD patients: a cross-sectional and follow-up study
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaela Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandez de Carvalho

PA1285
Impact of nocturnal hypoxemia on systemic inflammation in obstructive sleep apnea hypopnea syndrome (OSAS)
Samira Mhamdi (Mannouba, Tunisia), Safa Marzouki, Améni Naaroura, Houda Snoussi, Chiraz Aichaouia, Selsabil Daboussi, Zied Metamari

PA1286
Late Breaking Abstract - In-Home Smartphone-Based Prediction of Obstructive Sleep Apnea: A Validation Study with Level 2 Polysomnography
Jeong-Whun Kim (Seongnam, Republic of Korea), Daewoo Kim, Dongheon Lee, Joonki Hong

PA1287
Late Breaking Abstract - Differences in morbidity and mortality between patients with heart failure and either obstructive or central sleep apnea
Christian Horvath (Toronto, Canada), Shoichiro Yatsu, John Floras, Alexander Logan, George Tomlinson, Thomas Bradley

PA1288
Late Breaking Abstract - Detecting sleep apnea in advance using machine learning and ECG-deprived spectrogram during CPAP titration
Thanh Duy Linh Tran (Ho Chi Minh, Vietnam), Thi Hoang Trang Nguyen, Shang-Yang Lin, Wen-T'e Liu, Chaur-Jong Hu
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<td>PS-7 in poster area</td>
<td>146</td>
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**Poster session: Novel treatment strategies for airway diseases: a glimpse into the future**

**Disease(s):** Airway diseases  
**Method(s):** Cell and molecular biology, Physiology, General respiratory patient care, Pulmonary function testing, Epidemiology, Pulmonary rehabilitation  
**Tag(s):** Translational

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

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<td>PA1289</td>
<td>A Clinical-Stage Inhaled RNAi Therapeutic For Pulmonary Inflammation Mediates Durable RAGE Silencing In Nonhuman Primates (NHP)</td>
<td>David Kasahara (Madison, United States), Szymon Klossowski, Ben Turner, Holly Hamilton, Taylor Reed, Tao Pei, James Hamilton, Erik Bush</td>
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<tr>
<td>PA1290</td>
<td>A Lung-Targeted RNAi Therapeutics Delivery Platform Compatible With Subcutaneous (s.c.) Administration Mediates Pulmonary RAGE Silencing In Rodents And Nonhuman Primates</td>
<td>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</td>
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<td>PA1291</td>
<td>Heterogeneity of the lung microbiome influences response to Astegolimab, an anti ST2, in COPD</td>
<td>Koirobi Haldar (Leicester, United Kingdom), David F. Choy, Ahmed Yusuf, Vijay Mistry, Jordan S. Mar, Dorothy Cheung, Michele A. Grimaldестen, Christopher Brightling</td>
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<td>PA1292</td>
<td>ALIENTO and ARNASA: Study designs of two randomised, double-blind, placebo-controlled trials of astegolimab in patients with COPD</td>
<td>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</td>
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<td>PA1293</td>
<td>Characterization of the ADME profile of taimilast following administration of an intravenous microtracer combined with a single inhaled dose in healthy males</td>
<td>Michele Bassi (Parma, Italy), Veronica Puviani, Debora Santoro, Sonia Biandoaro, Aida Emirova, Mirco Govoni</td>
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<td>PA1294</td>
<td>Effects of Telaglenastat, a glutaminase inhibitor, on airflow inflammation and cellular senescence in cigarette-smoke exposed mice</td>
<td>Kazuhiro Ito (London, United Kingdom), Yasuo Kizawa, Yuki Nishimoto, Genki Kimura, Shyreen Hassibi, Jonathan Baker</td>
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<td>PA1295</td>
<td>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</td>
<td>Bård-Emil Vang Gundersen (København Ø, Denmark), Pradeesh Sivapalan, Josef F. K. Eklöf, Tor Biering-Sørensen, Allan Linneberg, Jens Ulrik Jensen</td>
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<td>PA1296</td>
<td>The bacterial lysate OM-85 amplifies efficacy of Allergen Immunotherapy (AIT) in allergic patients with asthma and rhinitis</td>
<td>Antonios Christopoulos (Patras, Greece), Maria Elpida Christopoulos, Panagiota Tsiri, Vasiliki Sotiropoulos, Eva Theohari, Electra Koulousosa, Demitriss Komninos, Georgios Tsirikos, Ioannis Christopoulos, Argyrios Tzouvelekis</td>
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<td>Effects of acid-suppressive medications in patients with chronic obstructive pulmonary disease: a multicenter study using a common data model</td>
<td>Jeongwon Heo (Chuncheon-si, Republic of Korea), Seung-Joon Lee, Sung Joung Lee, Seon-Sook Han, Seong-Joon Cho, Ja Kyoung Kim, Yeonjeong Heo</td>
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<td>PA1298</td>
<td>The corticosteroid-sparring effect of vigorous physical activity - a secondary analysis of a randomised controlled trial</td>
<td>Anders Pitzner-Fabricius (Allerød, Denmark), Vibeke Backer</td>
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<td>PA1299</td>
<td>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</td>
<td>Henrik Watz (Griolhsand, Germany), Tara Rheault, Thomas Bengtsson, Kathleen Rickard</td>
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<td>PA1300</td>
<td>Anamorelin, a ghrelin receptor agonist, inhibited the allergic airway inflammation in mice</td>
<td>Hiroki Bando (Tokushima, Japan), Seidai Sato, Hirohisa Ogawa, Kazuya Koyama, Kojin Murakami, Yuya Yamashita, Nandinuric Darian, Keiko Haji, Nobuhiro Naito, Hiroshi Kawano, Yasuhiho Nishioka</td>
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<td>PA1301</td>
<td>PI3Kcd inhibition suppresses key disease features in a rat model of asthma</td>
<td>James Pinkerton (New Lambton Heights (NSW), Australia), Silvia Preite, Antonio Piras, Dimitrios Zervas, Thomas Markou, Mark Freeman, Tobias Hofving, Eva Lammi Bergstrom, Emil Ivarsson, Sara Bonvini, Wayne Brailsford, Linda Yrlid, Maria Belvisi, Mark Birrell</td>
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<td>PA1302</td>
<td>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</td>
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ERS International Congress 2023  
DETAILED PROGRAMME  
SUNDAY 10 SEPTEMBER, 2023

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25.07.2023
PA1303  Effects of Toll-like Receptor Activation on Airway Responses and Inflammation in Guinea Pigs
Yujiao Xiang (Solna, Sweden), Jieliu Liu, Mu Nie, Jesper Säfholm, Mikael Adner

PA1304  Effects of melatonin in an Asthma-COPD overlap model
Vitorio Crema Scheffer (São Paulo, Brazil), Cristiane Ribeiro, Leandro Camargo, Silvia Fukuzaki, Francine Almeida, Renato Righetti, Iolanda Tibério, Edna Leick

PA1305  Silencing TSLP expression with a lung-targeted RNAi molecule suppresses pulmonary allergic inflammation
Tingting Yuan (VERONA, United States), Szymon Klossowski, Maria Afrazi, Holly Hamilton, Julía Hegge, James Hamilton, Tao Pei, Erik Bush

PA1306  Effectiveness of roflumilast, a phosphodiesterase type-4 (PDE4) inhibitor on biomarkers of inflammation in COPD
Iryna Saveliukhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Alla Zuban, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Galyna Korzh, Iryna Makoyda, Nadiia Korzh, Uliana Shevchuk-Budz

PA1307  The efficacy of chronotherapy in asthma: an open-label, randomised 3-way crossover trial of inhaled corticosteroids (ICS) in atopic asthma
Run Wang (Manchester (Greater Manchester), United Kingdom), Robert Maidstone, David Ray, Andrew Loudon, Angela Simpson, Dave Singh, Hannah Durrington

PA1308  Late Breaking Abstract - Efficacy and Safety of Dupilumab for COPD with Type 2 Inflammation Indicated by Elevated Eosinophils
Surya Bhatt (Birmingham, United States), Klaus F. Rabe, Nicola A. Hanania, Lena Teilum, Jeremy Cole, Mona Bafadhel, Stephanie A. Christenson, Alberto Papi, Dave Singh, Elizabeth Laws, Leda Mannent, Eric Mortensen, Jennifer Maloney, Xin Lu, Deborah Bauer, Ashish Bansal, Lacey B. Robinson, Raolat M. Abdulai

PS-8 in poster area  Session 147  12:30 - 14:00
Poster session: New frontiers in chronic obstructive pulmonary disease characterisation and management

Disease(s) : Airway diseases, Sleep and breathing disorders
Method(s) : Imaging, General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Cell and molecular biology
Tag(s) : Clinical
Chairs : Alexander Mathioudakis (Stockport, United Kingdom), Augusta Beech (Manchester, United Kingdom)

PA1309  Bronchodilator response assessed by spirometry and SPECT/CT in COPD.
Edward Jeagal (Croydon Park, Australia), Hooria Alowiwi, Harley Koltai, Troy Cross, Kaj Blokland, Elizabeth Bailey, Kathy Willowson, David Chapman, Gregory King

PA1310  Clinical and functional effects of inhaled dual therapy umecclidinium/vilanterol in patients with chronic obstructive pulmonary disease: a real-life study
Corrado Pelaia (Catanzaro (CZ), Italy), Anna Ferrante Bannera, Fioramante Lello Rotundo, Francesco Giuseppe Tropea, Giuseppe Armentaro, Angelantonio Maglio, Angela Sciaccia, Alessandro Vatrella, Girolamo Pelaia

PA1311  Current smoking reduces small airway eosinophil counts in COPD
Augusta Beech (Manchester, United Kingdom), Sophie Booth, Dave Singh, Andrew Higham

PA1312  COPD and heart rhythm disturbances: Overview of supraventricular and ventricular arrhythmias
Daniela Bukloska Ilievksa (Skopje, North Macedonia), Jordan Minov

PA1313  Regional variation of COPD burden in Alberta, Canada
Christopher Licskai (London (ON), Canada), Sheena Kayaniyil, Anna Hussey, Phongsack Manivong, Suzanne McMullen, Madonna Ferrone, Manisha Talukdar

PA1314  Impact of comorbidities on quality of sleep among Tunisian patients with chronic obstructive pulmonary disease
Amal Chennoufi (Tunis, Tunisia), Chirine Moussa, Rouis Houda, Ghouarbi Asma, Khattab Amel, Khouaja Ibtihel, Mhiri Fatma, Bayahi Leila, Zendar Ines, Maalej Sonia

PA1315  Does corticosteroid intake increase the risk of Vitamin D deficiency in Tunisias COPD patients?
Amal Chennoufi (Tunis, Tunisia), Asma Zargouni, Abir Hedhli, Khadija Ëuchi, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Besma Dahiri

PA1316  Clinical characteristics of patients with COPD in Hong Kong
Fanny W.S. Ko (Shatin, Hong Kong), Xiaoemeng Xu, Pinky Hon, Priyan Ratnasingham, Dominique Milea, David S C Hui

PA1317  Observance of long-term non-invasive ventilation in COPD: VentiObs study
Gilles Jebrak (Paris, France), Capucine Morelot-Panzini, Jean Christophe Honoré, Laurent Pupin, Bouchra Lamia
PA1318  Clinical factors linked to the type of respiratory medication in COPD: Results from COSYCONET
Peter Altor (Marburg, Germany), Kathrin Kahrner, Franziska C. Trudzinski, Robert Bals, Henrik Watz, Tim Speicher, Sandra Söhler, Tobias Welte, Klaus F. R. Rabe, Emiel F. M. Wouters, Claus F. Vogelmeier, Rudolf A. Jörres

PA1319  Medication success among real-world users of budesonide/glycopyrrolate/formoterol fumarate (BGF) for the management of COPD in a UK primary care population
Hana Müllerová (Cambridge, United Kingdom), Jeffrey Shi Kai Chan, Heath Heatley, Victoria Carter, John Townend, Derek Skinner, Stefan Franzén, Johann Castaneda, Jonathan Marshall, David Price

PA1320  Addressing treatable traits: a meta-analysis to assess the effect of N-acetylcysteine on respiratory symptoms and exacerbations in pre-COPD and COPD patients
Alberto Papi (Cone, Ferrara, Italy), Federico Baraldi, Franco Alfano, Tommaso Bigoni

PA1321  Cost-Effectiveness of Umeclidinium/Vilanterol (UMEC/VI) Versus Glycopyrronium/Formoterol (GLY/FOR) in Symptomatic Patients with COPD in the UK: The AERISTO trial
Afisi S Ismaila (Malvern, United States), Dhvani Shah, Alan Martin, Robyn Kendall, Stephen Noorduyn, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton

PA1322  Real-world study of formoterol/budesonide delivered through BAI in COPD patients
Balamurugan Santhalingam (Chennai (Tamil Nadu), India), Himanshu Pophale, Utsav Samariya, Komalkirti Apte, Sheetu Singh, Raja Dhar, Sujeet Rajan, Rajesh Swarnakar, Deepak Talwar, Meena Lopez, Vaishali Naik, Sandesh Sawant, Sushmeca Chhownala, Abhijit Vaidya, Jaideep Gogtay

PA1323  Benralizumab increases time to recurrent exacerbations in COPD patients on triple therapy with frequent exacerbations and an eosinophilic phenotype
Dave Singh (Manchester, United Kingdom), Gerard J. Crine, Alvar Agusti, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saraiva, Ying Fan, Maria Jison, Ubaldo J. Martin, Ioannis Psallidas

PA1324  Azithromycin maintenance therapy for prevention of Chronic Obstructive Pulmonary Disease Exacerbations
Deepansh Gupta (Rishikesh, India), Lokender Kumar, Avishek Layek

PA1325  Clusters in chronic obstructive pulmonary disease based on inhaled corticosteroid treatment and pneumonia incidence – a nationwide cohort study
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke

PA1326  Trends in severe COPD exacerbations and mortality following the introduction of ultra-long-acting bronchodilators: an interrupted time-series study between 2007 and 2018 in the province Québec, Canada
Charles-Antoine Guay (Québec, Canada), Caroline Sirois, Claudia Beaudoin, Laurie Perreault, François Maltais, Pierre-Hugues Carmichael, Elhadj Anassour Laouan Sidi, Steeve Provencher

PA1327  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, Ubaldo J. Martin, Ioannis Psallidas

PA1328  Azithromycin maintenance therapy for prevention of Chronic Obstructive Pulmonary Disease Exacerbations
Deepansh Gupta (Rishikesh, India), Lokender Kumar, Avishek Layek

PS-9 in poster area  Session 148  12:30 - 14:00
Poster session: Comorbidities in chronic obstructive pulmonary disease
Disease(s) : Airway diseases, Thoracic oncology
Method(s) : Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing, Physiology, Pulmonary rehabilitation, Public health, Cell and molecular biology
Tag(s) : Clinical
Chairs : Leonardo Michele Fabbri (Modena, Italy), Chair to be confirmed

PA1329  Cardiac adrenergic innervation and air trapping in patients with moderate-to-severe chronic obstructive pulmonary disease: initial data from a pilot study
Ieva Dimiene (Kaunas, Lithuania), Deimantė Hoppenot, Donatas Vajauskas, Skaidrius Miliauskas

PA1330  The prevalence of emphysema in patients undergoing lung cancer screening
Marija Vukoja (Sremska Kamenica, Republic of Serbia), Dragan Dragošic, Gordana Vujasinovic, Jelena Djekic Malbasa, Ilija Andrijevic, Goran Stojanovic, Ivan Kopitovic

PA1331  Diagnostic utility of specific frailty questionnaire, the Kihon Checklist for hippocampal atrophy in COPD
Tsunahiko Hirano (Ube, Japan), Shun Takahashi, Ayumi Fukatsu-Chikumoto, Takuya Ishida, Tomihiro Donishi, Kazuyoshi Suga, Keiko Doi, Keiji Oishi, Shuichiro Ohata, Yoriyuki Murata, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga
Impact of atrial fibrillation and flutter on mortality in patients admitted with acute exacerbation of COPD
Peter Ascanius Jacobsen (Aalborg, Denmark), Stine Kjersgaard Hansen, Sofie Vejby Thorndal, Ulla Møller Weinreich

The impact of air trapping on left ventricle volumes in patients with treatment naïve moderate-to-severe chronic obstructive pulmonary disease
Ieva Dimiene (Kaunas, Lithuania), Deimante Hoppenot, Lina Padervinskiene, Skaidrius Miliauskas

Coronary artery disease, COPD exacerbation and inflammation
Mairi MacLeod (London, United Kingdom), Aaron Bradyc-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 Spiesshoefer

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), Libor Filá, Petr Vaník, Pavlína Musilova, Tomas Dvorák, Petr Safranek, Michal Svoboda, Vladimír Koblízek

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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 Olveira Fuster

Association of CAT and PHQ-9 scores for depression among COPD patients – a Philippine cohort.
Jermelyn Saron (Manila, Philippines), Guinevere Agra, Celeste Mae Campanones, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, Roland Panaligan, Tim Trinidad

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

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

Title: Is smoking associated with higher cardiovascular risk and increased unplanned acute medical attendance? A retrospective analysis from the Lung Cancer screening cohort
Rehab Haider (Shrewsbury, United Kingdom), Elizabeth Finn, Shabeena Zeb, Faraz Bharwana, Alice Fitzgerald, Sana Ifikhar, Imran Hussain

The prevalence and clinical characteristics of COPD in patients with lung cancer
Ivana Canak (Sremski Kamenicu, Republic of Serbia), Jelena Mikov, Goran Stojeanovic, Nevena Secen, Ilija Andrijevic, Ivan Kopitovic, Nensi Lalic, Marija Vukoja

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

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
### Brown 1+2  Session 151  12:45 - 13:45

**Joint session: Updates on inhalers for COPD and asthma**

*an ERS / Industry Joint Session*

**Tag(s)**: Clinical

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

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

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

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

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

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

**Method(s)**: Cell and molecular biology, Imaging, Surgery

**Tag(s)**: Translational

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

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

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<td><em>Novel molecular insight into the development of CTEPH</em></td>
<td>Jurjan Aman (Amsterdam, Netherlands)</td>
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<td>14:00</td>
<td><em>The natural history of CTEPH</em></td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<td>14:15</td>
<td><em>(Sub)segmental CTEPH should be treated by surgery</em></td>
<td>David Jenkins (Cambridge, UK)</td>
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<td>14:30</td>
<td><em>(Sub)segmental CTEPH should be treated by balloon angioplasty</em></td>
<td>Xavier Jais (Le Kremlin-Bicêtre, France)</td>
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<tr>
<td>14:45</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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### Silver  Session 155  13:45 - 15:15

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

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

**Aims**: to provide an update on the global burden of long COVID; to provide information about the use of morphine to treat breathlessness in patients with chronic obstructive pulmonary disease (COPD); to provide information about the effect of autotaxin inhibitor treatment on lung function in patients with idiopathic pulmonary fibrosis (IPF).
**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 discuss the need for COPD classification and further biomarker discovery for patient ‘endophenotyping’;
- To explain how changes in cell-cell interactions trigger molecular and pathological mechanisms responsible for disease onset and progression;
- To discuss how to use current advanced technologies to delineate novel targets for COPD drug discovery.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Patient, Scientist (basic, translational), Journalist

**Chairs:** Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium)

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**Session 156**

**13:45** **Introduction**
Ali Oender Yildirim (Neuherberg, Germany)

**13:50** **Novel immune mechanisms of COPD initiation and progression**
Francesca Polverino (Houston, United States)

**14:05** **Approaches to lung regeneration**
Mareike Lehmann (Marburg, Germany)

**14:20** **Metabolic alterations in COPD that direct new treatment strategies**
Suzanne Cloonan (Dublin, Ireland)

**14:35** **Translating resilience and pathogenesis to personalised therapy for COPD**
Irina Petrache (Denver, United States)

**14:50** **Discussion and Q&A**
All Speakers

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**Symposium: 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.

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**Session 157**

**13:45** **Introduction**
Ali Oender Yildirim (Neuherberg, Germany)

**13:50** **Novel immune mechanisms of COPD initiation and progression**
Francesca Polverino (Houston, United States)

**14:05** **Approaches to lung regeneration**
Mareike Lehmann (Marburg, Germany)

**14:20** **Metabolic alterations in COPD that direct new treatment strategies**
Suzanne Cloonan (Dublin, Ireland)

**14:35** **Translating resilience and pathogenesis to personalised therapy for COPD**
Irina Petrache (Denver, United States)

**14:50** **Discussion and Q&A**
All Speakers
### Coral 1  
**Session 158**  
**13:45 - 15:15**  
**Symposium**: Acute respiratory distress syndrome: update and future treatment  
**Aims**: to describe the state of the art in acute respiratory distress syndrome (ARDS) and upcoming treatment options.

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<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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<tr>
<td>14:15</td>
<td>The new European guideline in ARDS: pharmaceutical treatments and upcoming targets</td>
<td>Danny Mcauley (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>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Coral 2  
**Session 159**  
**13:45 - 15:15**  
**Symposium**: Better outcomes for adults with chronic breathlessness: earlier diagnosis and management  
**Aims**: to review healthcare pathways for people living with chronic breathlessness, from their first presentation to palliation, highlighting the role of integrated care throughout; to critically appraise research and clinical care evaluations of integrated diagnostic pathways for chronic breathlessness to achieve earlier diagnosis and treatment; to discuss the role of artificial intelligence in diagnostic pathways for chronic breathlessness; to review the role of nonpharmacological management for chronic breathlessness including the multidisciplinary team and rehabilitation; to discuss specific causes of breathlessness, such as breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse, and their respective management for clinicians to appropriately diagnose and manage breathlessness; to describe complex interventions for distressing breathlessness including breathlessness support services.

<table>
<thead>
<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, 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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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</tbody>
</table>
Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Thomas Gille (Bobigny, France)

13:45 Patient's perspective

13:50 Earlier diagnosis to earlier treatment for people living with chronic breathlessness
Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

14:05 Nonpharmacological management of chronic breathlessness including rehabilitation and the multidisciplinary team
William Man (Harefield, United Kingdom)

14:20 Special considerations in complex breathlessness: breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse
Thomas Halvorsen (Bergen, Norway)

14:35 Integrated breathlessness support services: what are they and what should they include?
Daisy J.A. Janssen (Horn, Netherlands)

14:50 Discussion and Q&A
All Speakers

Purple Session 160 13:45 - 15:15

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

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

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

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

Disease(s): Airway diseases, Respiratory infections

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

Tag(s): Translational

Target audience: Adult pulmonologist/clinician, Clinical researcher, General practitioner, Medical student, Medical technical assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

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

13:45 Pollen exposure, respiratory allergy and asthma: what do we know so far?
Adrian Lowe (Parkville, Australia)

14:00 Short-term effects of exposure to pollens and other air pollutants: methodological insights for researchers and clinicians
Antonio Gasparini (London, United Kingdom)

14:15 Air pollution and paediatric respiratory health: little particles and little lungs
Jonathan Grigg (London, United Kingdom)

14:30 Sex as a modifier of effects of the environment and occupation on respiratory disease
Meghan Rebuli (Chapel Hill, United States)

14:45 Discussion and Q&A
All Speakers

14:00-14:45 INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1
**Red 1+2**

**Session 163**  
14:15 - 15:30

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

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

OA1412

*Late Breaking Abstract - Phase I safety and tolerance study of the inhalable anti IL-4Ra single domain antibody, LQ036, demonstrates promising clinical profile to treat asthma*

Yakun Wan (Shanghai, China), Junwei Gai, Min Zhu, Huiyiu Gu, Zhenzhen Deng, Jing Huang

OA1413

*Bronchial submucosal eosinophils predict clinical remission better than blood eosinophils and FeNO in severe uncontrolled asthma treated with biological therapy*

Hanaa Shafiek (Alexandria, Egypt), Amanda Iglesias, Mar Mosteiro, Ines Escribano, Nuria Toledo-Pons, Cristina Gomez, Jacinto Ramos, Luis Perez De Llano, Fco.De Borja Garcia-Cosio Piqueiras

OA1414

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

Manali Mukherjee (Hamilton (ON), Canada), Chynna Huang, Xiaotian Ju, Melanie Kjarsgaard, Carmen Venegas-Garrido, Katherine Radford, Anurag Bhatia, Kiho Son, Sylvie Lauks, Nicola Calma, Sarah Svenningsen, Paul O'Byrne, Roma Schmit, Parameswaran Nair

OA1415

*Biomarkers and clinical outcomes after cessation of tezepelumab after 2 years of treatment (DESTINATION)*

Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), David Jackson, Ales Kotalik, Nestor A Molfino, Scott Caveney, Gene Colice, Neil Martin, Elliot Israel, Ian D Pavord, Michael E Wechsler, Celeste Porsbjerg

OA1416

*Long-Term Dupilumab Efficacy in Patients with Type 2 Asthma by Age of Onset: LIBERTY ASTHMA TRAVERSE*

William Busse (Madison, United States), Monica Kraft, Christian Domingo, Ines De Mir, Diego J. Maselli, Xavier Soler, Changxing Xia, Nami Pandit-Abid, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deniz

OA1417

*Tezepelumab can restore normal lung function in patients with severe, uncontrolled asthma*

Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Christopher E Brightling, Stephanie Korn, Nicole Martin, Sandhia Ponnarambil, Nestor A Molfino, Jane Rarnes, Christopher S Ambrose

OA1418

*The proportion of patients achieving low biomarker levels with tezepelumab treatment in the phase 3 NAVIGATOR study*

David J Jackson (London, United Kingdom), Ian D Pavord, J Christian Virchow, Jane R Parnes, Amdag Gamil, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Michael E Wechsler

OA1419

*Changes in serum total IgE after cessation of tezepelumab after 2 years of treatment (DESTINATION)*

Marco Caminati (Verona (VR), Italy), Jean-Pierre Llanos, Joseph D Spahn, Ales Kotalik, Santiago Quirce, Jonathan Corren

OA1420

*Durability of Benralizumab-induced remission in severe asthma: an analysis of the BORA study*

Marek Lommatzsch (Rostock, Germany), Anat Shavit, Anaud Bourdin, Justin Kwiatek, David Cohen, Delphine Leynaud, Andrew Menzies-Gow

OA1421

*Parasitic Infections and Biological Therapies Targeting Type 2 Inflammation: a Vigibase® Study.*

Laurent Guilleminault (Toulouse Cedex, France), François Moneta, Laurent L. Reber, Jean-François Magnaval, Philippe Lifar

OA1422

*Discussion and Q&A*

All Speakers

**Brown 3**

**Session 164**  
14:15 - 15:30

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

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

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

**Tag(s):** Clinical

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

OA1423

*Late Breaking Abstract - Safety, tolerability and antifibrotic activity of bexotegrast: Phase 2a INTEGRIS-IPF study (NCT04396756)*

Wim A. Wuyts (Leuven, Belgium), Claudia Valenzuela, Gisli Jenkins, Jonathan G Goldin, Grace Hyun J Kim, Marzena Jurek, Scott Turner, Martin Decaris, Chris N Barnes, Éric Lefebvre, Gregory Cosgrove, Vincent Cottin
OA1424

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

OA1425

Experience of making early interstitial lung disease diagnosis from patients taking part in UK national pilot lung screening programme.
Daniel Trushell-Pottinger (Doncaster, United Kingdom), Ailsa Holbourn, Kiran Nandakumar, Jason Page, Sue Matthews, Abdul Nasimudeen, Moe Kyi

OA1426

Use of 1.1-mm probes in transbronchial lung cryobiopsy for diagnosing interstitial lung diseases: a randomized trial
Gang Hou (Beijing, China), Yiding Bian, Mingming Deng

OA1427

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

OA1428

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

OA1429

Telediagnosis in patients with Idiopathic Pulmonary Fibrosis
Matteo Davì (Pesaro, Italy), Claudia Duranti, Lina Zuccatosta, Federico Mei, Martina Bonifazi

OA1430

The clinical frailty scale is associated with progression of fibrotic interstitial lung disease – a multicentre cohort study.
Sahina A. Guler (Bern, Switzerland), Daniel-Costin Marinescu, Gerard Cox, Celine Durand, Jolene H. Fisher, Amanda Grant-Orser, Gillian C. Goobie, Nathan Hambly, Kerri A. Johannson, Nasreen Khalil, Martin Kolb, Stacey Lok, Sarah Macisaac, Helene Manganas, Veronica Marcoux, Julie Morisset, Ciaran Scallan, Shane Shapera, Kelly Sun, Boyang Zheng, Christopher J. Ryerson, Alyson W. Wong

OA1431

Patient reported assessment of swallowing and throat symptoms and reflux in patients with idiopathic pulmonary fibrosis
Amal Alamer (NEWCASTLE UPON TYNE, United Kingdom), Amal Alamer, Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson

OA1432

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

OA1433

Discussion and Q&A
All Speakers

Brown 1+2 Session 165 14:15 - 15:30
Oral presentation: Latest research on paediatric asthma

OA1434

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 C.Harrison, Peter Vuillermin

OA1435

The ERS CRC Severe Paediatric Asthma Collaborative in Europe: asthma control in Children on Biologics
Norrice Liu (London, United Kingdom), Marielle W.H. Pijnenburg, Antoine Deschildre, Silvia Carraro, Grazia Fenu, Valentina Ferraro, Louise L. Fleming, Laurence Hanssens, Amelia Licardi, Enrico Lombardi, Jose Valverde Molina, Anouk Vierhout, Ines De Mir, Franca Rusconi

OA1436

How much change in FEV1 is associated with an increased risk of an asthma exacerbation?
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Nicole Filipow, Francoise Vermeulen, Robin Vael, Thomas Frischer, Anne Chang, Helen Petsky, Stanley Szefler, Sanja Stanojevic
Exhaled metabolite profiling for asthma control classification in children: results from the SysPharmPediA study
Shahriyar Shahbazi Khamas (Amsterdam, Netherlands), Yont Van Dijk, Mahmoud I Abdel-Aziz, Anne H Neerincx, Susanne Jh Vijverberg, Christine Wolff, Anna Hedman, Catarina Almqvist, Paula Corcuera-Elosegui, Javier Korta-Murua, Olaia Sardón-Prado, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D Kraneveld, Paul Brinkman, Anke-Hilse Maitland, Vanessa 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, Grigorios Chatzizagoras, Ilias Theodorakopoulos, Aris Bertzouamis, Michael Anthracopoulos, Urs Frey, Edgar Delgado - Eckert

Prematurity-associated lung disease is frequently mis-diagnosed as asthma
Tiffany Bradvash (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-Hsieh Chen, Kathleen Lee-Sarwar, Nicole Prince, Kevin Mendez, Sofina Begum, Priyadarshini Kachroo, Su Chu, Jakob Stokholm, Klaus Bønneleykke, 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)
Ramesh J. Kurukulaaratchy (Newport (Hants), United Kingdom), Hasan Arshad, Abd Farhan, Diller 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
All Speakers

Blue 1+2 Session 166 14:15 - 15:30
Oral presentation: Untangling the molecular footprints in lung cancer diagnosis and treatment

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology General respiratory patient care
Tag(s): Clinical, Translational
Chairs: Rainer G. Wiewrodt (Münster, Germany), Maria Joana Pereira Catarata (Porto, Portugal)

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

IG6-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

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 Lemos, Tiago Covas, Icaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Vinicius Duval Silva, Sabrina Setembre Bata, Heloisa Cacio Zimerman, Alexandre Todorovic Fabro, Conceição Souto-Moura, Susana Guimarães, Fátima Carneiro, Claudia Freitas, Helder Novais E Bastos, Luciane Sussuchi Da Silva, Rui Manuel Reis, Leticia Ferro Leal

The role of CD137-CD137L and CD200-CD200L pathways in the regulation of tumor immune microenvironment.
Iwona Kwiecek (Warszawa, Poland), Elzbieta Rutkowska, Agata Raniszewska, Rafał Sokołowski, Karina Jahnz- Różyk, Piotr Rzepecki
### Reproducibility of a 12-gene set for predicting outcome and benefit from ACT in early-stage NSCLC patients

Rui Reis (Barretos, Brazil), Alexia Polo Siqueira, Maria Fernanda Santiago Gonçalves, Isabella Lemaquí Tegami, Keila Cristina Miranda, Icaro Alves Pinto, Pedro De Marchi, Josiane Mourão Dias, Iara Vidigal Santana, Rachid Eduardo Nolte Da Nobrega, Vinicius Duval Da Silva, Sabrina Setembre Batah, Heloisa Acuorio Zimerman, Alexandre Todorovic Fabro, Concejão 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

All Speakers

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**Yellow 1+2+3**  
**Session 167**  
**14:15 - 15:30**

**Oral presentation: Bronchiectasis**

**Disease(s):** Airway diseases  
**Method(s):** General respiratory patient care, Imaging, Cell and molecular biology  
**Tag(s):** Clinical  
**Chairs:** Michael Loebinger (London, United Kingdom), Pieter Goeminne (Bornem, Belgium)

**Late Breaking Abstract - Bronchoalveolar lavage amylase level as a promising biomarker of aspiration: a multicenter cross-sectional clinical study**

Lianjun Lin (Beijing, China), Ruixue Zhang, Yeliang Wen, Kun Wang, Dong Xu, Haixia Li, Zhi Zhang, Yiqun Wu, Shiyue Li

**Neutrophil metabolomics in bronchiectasis: data from the EMBARC BRIDGE study**

Amelia Shoemark (Dundee (Angus), United Kingdom), Yan Hui Giam, Amy Gilmour, Merete B Long, Holly R Keir, Thomas Pembright, 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, Michael Shteinberg, James D Chalmers

**Blood eosinophils, inhaled corticosteroids and exacerbations in bronchiectasis: Data from the EMBARC registry**

Jennifer Pollock (Dundee, United Kingdom), Eva Polverino, Megan L. Crichton, Pierre Regis-Burgel, Charles Haworth, Katerina Dimakou, Michael R. Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Stuart J. Elborn, Amelia Shoemark, Stefano Aliberti, Pieter Goeminne, James D. Chalmers

**Validation of the Rose Criteria for COPD-Bronchiectasis Overlap: Data from the European Bronchiectasis Registry (EMBARC)**

Letizia Traversi (Cittiglio, Italy), Eva Polverino, Pierre-Regis Burgel, Charles Haworth, Katerina Dimakou, Michael Loebinger, Rosario Menendez, Antoni Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Amelia Shoemark, Josie Altenburg, Wim Boersma, Stuart Elborn, Stefano Aliberti, Pieter C. Goeminne, James Chalmers

**Treatment with the dipetidyld peptidase-1 inhibitor brensocatib increases the antimicrobial peptide secretory leukocyte peptide inhibitor (SLPI) in patients with bronchiectasis: results from the WILLOW trial**

Lidia Ferea (Barcelona, Spain), Emma Johnson, Carlos Fernandez, Kevin Mange, Ariel Teper, Holly K Reir, Oriol Sibila, Amelia Shoemark, James D Chalmers

**Bronchiectasis and mortality in smokers with distinct spirometric phenotypes**

Alejandro A Diaz (Arlington, United States), Jose L Orejas, Rim Elalami, Wojciech R Doliver, Pietro Nardelli, Ruben San Jose Estepar, Bina Choi, Carrie Pistenmää, 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 Alkhutib, Jack Carson, Andrew Marshall, Stephen Carson, Daniel F Gilpin, Gerhild Angyalosi, Vincent Malaterre, Michael R Loebinger, James D Chalmers, Francesco Blasi, Charles S Haworth, J Stuart Elborn
Anxiety, depression and bronchiectasis outcomes: Data from the BronchUK study

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

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

Discussion and Q&A
All Speakers

Amber 1+2  Session 168  14:30 - 16:50
Skills workshop: SW3 Pulmonary rehabilitation: extending practice to improve health outcomes
A personalised medicine approach
Aims: to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

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

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

Tag(s): Clinical

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

Chairs: Rainer Gloecki (Schoenau am Koenigssee, Germany)

14:30  Introduction
All Speakers

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

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

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

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

Amber 3+4  Session 169  14:30 - 16:50
Skills workshop: SW18 Cardiac ultrasound in the management of pulmonary disease
Aims: Develop a rigorous and systematic approach in performing and analyzing cardiac ultrasound parameters in respiratory disease. Explain systolic function, diastolic function, right heart dysfunction during COPD patients, the management of pulmonary embolism. Explain the hemodynamic consequences of non-invasive ventilation and propose an echocardiographic monitoring for the best settings of non-invasive ventilation. Develop knowledge and understanding of echocardiographic parameters in patients with COPD, pulmonary embolism or requiring non-invasive ventilation.

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

Tag(s): Clinical

Chairs: Bouchra Lamia (Le Havre, France)

14:30  Introduction
All Speakers

14:30  Assessment of diastolic function in COPD patients
Valentina Mercurio (Napoli, Italy)
**Gold Session 170  15:30 - 17:00**

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

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

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

**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)

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**Silver Session 171  15:30 - 17:00**

**Clinical trials session: ALERT**

**Chairs:** Kristin Walter (Chicago, United States)

**15:30**  RCT1480

**15:37**  RCT1481

**15:44**  RCT1482

**15:51**  Wrap-up by discussant and discussion RCT1483

**16:13**  RCT1484

**16:20**  RCT1485

**16:27**  RCT1486

**16:34**  Wrap-up by discussant and discussion RCT1487

**16:56**  Closing remarks All Speakers RCT1488

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

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

**Aims:** to introduce respiratory fellows and clinical, basic and translational researchers to the emerging role of interleukin-17 and T helper 17 (Th17) cells in lung diseases.
Disease(s) : Airway diseases, Respiratory infections
Method(s) : Cell and molecular biology
Tag(s) : Translational
Target audience : Clinical researcher, Medical Student, Scientist (basic, translational)
Chairs : Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium)

**Coral 3**

**Session 173**

15:30 The principal immunology of Th17 cells in the lungs
Jay Kolls (New Orleans, United States) 1489

15:45 Th17 cells in COVID-19
Speaker to be confirmed 1490

16:00 Th17-associated cytokines in obstructive airway diseases
Qutayba Hamid (Montreal (QC), Canada) 1491

16:15 Th17 cells in fibrosis
Speaker to be confirmed 1492

16:30 Discussion and Q&A
All Speakers 1493

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

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

15:30 The changing epidemiology of community-acquired pneumonia in the ageing population
Catia Cilloniz Campos (Barcelona, Spain) 1494

15:45 The new challenges of pneumonia in immunocompromised patients
Scott Evans (Houston, United States) 1495

16:00 How vaccines can reduce the impact of respiratory infections
Tobias Welte (Hannover, Germany) 1496

16:15 Updating the management of pleural infections: from prognostic scores to novel fibrinolytic agents
Eihab Bedawi (Sheffield, United Kingdom) 1497

16:30 Discussion and Q&A
All Speakers 1498
Symposium: An ageing lung: respiratory disease in the elderly

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

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

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

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

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

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

**Session 175**

15:30 Cellular changes in the ageing lung
Melanie Königshoff (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
All Speakers
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) 1510

15:45  The striking scientific evidence of air pollution’s health effects in children and adults
Zorana Andersen (Frederiksberg, Denmark) 1511

16:00  Quantifying the morbidity of polluted air
Francesco Forastiere (Roma (RM), Italy) 1512

16:15  The respiratory health benefits of improved urban exposures
Erik Melen (Stockholm, Sweden) 1513

16:30  Discussion and Q&A
All Speakers 1514

15:30-16:15  INDUSTRY SKILLS LAB WORKSHOP  SEE PAGE 1

Red 1+2  Session 179  15:45 - 17:00
Oral presentation: Phenotypes and biomarkers in asthma
Disease(s) : Airway diseases
Method(s) : Imaging, Physiology, Pulmonary function testing, Epidemiology, Public health, General respiratory patient care, Cell and molecular biology
Tag(s) : Translational
Chairs : Fabio L. M. Ricciardolo (Torino, Italy)

Late Breaking Abstract - Seasonal variation in nasal epithelium gene expression
OA1523 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
OA1524 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
OA1525 Pauline Kuks (Groningen, Netherlands), Tatiana Karp, Jorine Hartman, Monica Kraft, Salman Siddiqui, Leonardo Fabbri, Klaus Rabe, Alberto Papi, Chris Brightling, Dave Singh, Maxim Kots, Thys Van Der Molen, Huib Kerstjens, Irene Heijink, Daan Pouwels, Dirk-Jan Slebos, Maarten Van Den Berge

How respiratory symptoms impact asthma-related quality of life in severe asthmatics
OA1526 Gilles Louis (Liège, Belgium), Florence Schleich, Michèle Guillaume, Bernardo Sousa-Pinto, Jean Bousquet, Renaud Louis, Benoit Pétèr

Patient-centred composite index for assessment of response to biological therapy for adult severe asthma.
OA1527 Ekaterrina Khaleva (Southampton, United Kingdom), Chris Brightling, Ratko Djukanovic, Sven-Erik Dahlén, Courtney Coleman, Markaya Henderson, Graham Roberts

Longitudinal assessment of glucocorticoid toxicity in biologics treated severe asthma
OA1528 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 Flokstra-De Blok, Leonardo Fabbris, Monica Kraft, Alberto Papi, Klaus Rabe, Maarten Van Den Berge, Tessa Kole, Dave Singh, Craig Galban, Massimo Kots, Christopher Brightling, Salman Siddiqui

Eosinophil-derived neurotoxin determinants and reference values in a middle-aged Swedish population

Suneela Zaigham (Malmö, Sweden), Robert Movérare, Magnus Molin, Anders Sjölander, Christer Janson, Andrei Malinovschi

Urinary eicosanoids - novel biomarkers in T2-low severe asthma

Matthew Chad Eastwood (Ireland), John Busby, Johan Kolmert, Craig Wheelock, Sven-Erik Dahlén, Pamela-Jane McDowell, David Jackson, Ratko Djukanovic, John Matthews, Joseph Aron, 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

All Speakers

Brown 3 Session 180 15:45 - 17:00

Oral presentation: Cystic fibrosis in adults

Disease(s) : Airway diseases, Respiratory critical care

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

Tag(s) : Clinical

Chairs : Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)

Late Breaking Abstract - A novel treatment for chronic P. aeruginosa pulmonary infection in CF subjects - A phase 1b/2a randomized, double-blind, placebo-controlled, multicenter study to evaluate phage therapy


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 Alkhatab, GISLI Einarsson, Michael Tunney, Clifford Taggart, Damian Downey

Pharmacokinetics and safety of brensocatib in patients with cystic fibrosis

Ariel Teper (Hastings-on-Hudson, United States), Michael Konstan, Patrick Flume, Christina Ramirez, Sherry Li, Marcela Vergara, Helen Usansky

Interim results from a post-marketing observational safety study (PASS) of levofloxacin inhalation solution in patients with cystic fibrosis

Nicholas Simmonds (London, United Kingdom), Susan C. Charman, Julia Wosniok, Debora Santoro, Stella Fiorini, Rémi Charreter, Clara Sanchez, Claudio Procaccianti, Lutz Naehrlich

Economic impact using a virtual model of care in Cystic Fibrosis

Paola Iacotucci (Napoli (NA), Italy), Vincenzo Carnovale, Dandi Qiao, Lorena Ferrillo, Jolanda Somma, Serena Buonari, 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 Gramigna, Chiara Premuda, Federica Piedepalumbo, Erica Nazzari, Calogero Sciarabba, Valeria Daccò, Francesco Blasi
OA1541 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

OA1542 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, Michva Aviram, Meir Mei-Zahav, Miri Dotan, Dario Prais, Malena Cohen-Cymerberkoh, Michal Gur, Ronen Bar-Yoseph, Galit Livnat, Aviv Goldbart, Guy Hazan, Itai Hazan

OA1543 Comorbidities in adult patients with Cystic Fibrosis (CF)  
Almudena Felipe Montiel (Rubí (CT), Spain), Antonio Alvarez Fernández, Letizia Traversi, David Clofent Alarcón, Karina Loor Reyes, Mario Culebras Amigo, Cristina Esquinas López, Eva Polverino

OA1544 Discussion and Q&A  
All Speakers

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**Brown 1+2**  
**Session 181**  
**SUNDAY 10 SEPTEMBER, 2023**  
**15:45 - 17:00**

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

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

**Tag(s):**  
Clinical

**Chairs:**  
Stijn Verhulst (Antwerpen, Belgium), Jessica Taytard (Paris Cedex 12, France)

**Late Breaking Abstract - Nasal nitric oxide measurement in children for the diagnosis of primary ciliary dyskinesia: ERS technical standard**  
Nicole Beydon (Paris, France), Panayiotis Kouis, June Marthin, Philipp Latzin, Murielle Colas, Stephanie Davis, Eric Haarman, Harris Amanda, Hogg Claire, Kilbride Emma, Kuehni Claudia, Marangu Diana, Nielsen Kim, Pendergrast Catherine, Robinson Phil, Rumman Nisreen, Rutter Matthew, Walker Woolf, 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 (Basel, Switzerland), Ediane De Queiroz Andrade, Patricia De Gouveia Belinelo, Vanessa E Murphy, Paul D Robinson, Peter G Gibson, Peter D Sly, Wilfried Karmaus, Adam Collison, Joerg Mattes

**Determinants of lung function trajectories from birth to 5 years in a South African birth cohort**  
Diane Gray (Cape Town, South Africa), Carlyle Meready, Francesca Little, Carvern Jacobs, Shaakira Chaya, Lesley Workman, Mark P Nicol, Zoltan Santos, 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 Polytarchou, Angeliki Moudaki, Georgia Koltsida, Christina Kanaka-Gantenbein, Athanasios G. Kaidis

**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 nasall flow in paediatric cardiorespiratory 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 Mortanet

**Discussion and Q&A**  
All Speakers
Blue 1+2  Session 182  15:45 - 17:00

Oral presentation: Optimising diagnostic tools and treatment for malignant pleural effusion and mesothelioma

**Disease(s):** Thoracic oncology

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

**Tag(s):** Clinical

**Chairs:** Kevin Blyth (Glasgow, United Kingdom), Valentina Pinelli (Sarzana, Italy)

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**OA1556**

**Serum mesothelin is a biomarker for disease progression and mortality in mesothelioma**

Geraldine Lynch (Bristol (Avon), United Kingdom), Anna Morley, William Cooper, Anthony Edey, Dunesha De Fonseka, Jenny Symonds, Louise Staddon, Sonia Patole, Kevin Blyth, Anna Bibby

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**OA1557**

**Defining a new diagnostic biomarker panel for malignant pleural mesothelioma using a novel proteomic technique.**

Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, An Staes, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote

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**OA1558**

**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

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**OA1559**

**Exhaled breath analysis predicts treatment response in malignant pleural mesothelioma patients.**

Ellen Heirwegh (Antwerp, Belgium), Eline Schillebeeckx, Eline Janssens, Veerle Surmont, Jan Van Meerbeeck, Kevin Lamote

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**OA1560**

**The Scottish Mesothelioma Network: Impact of a national MDT on overall survival in pleural mesothelioma**

Matthew Tate (Glasgow (Glasgow), United Kingdom), Joshua Roche, Selina Tsim, Katie Ferguson, Phil Reid, Philip Short, Mahendra 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, Louise Staddon, Sonia Patole, Kevin Blyth

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**OA1561**

**Qualitative study of patient priorities in the malignant pleural effusion pathway**

Dinesh Addala (Oxford, United Kingdom), Beenish Iqbal, Poppy Denniston, Anand Sundaralingam, Eibah Bedawi, Rob Hallifax, John Wrightson, Najib Rahman

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**OA1562**

**To study the efficacy of time dependant vs volume dependant chest drain removal protocol for talc slurry pleurodesis in patients with malignant pleural effusion**

Richa Gupta (Vellore (Tamil Nadu), India), Sarah Koshy, Prince James, Ashwin Oliver

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**OA1563**

**Does a novel Indwelling Pleural Catheter drainage system improve patient experience?**

Hugh Welch (Bristol, United Kingdom), Eleanor Barton, Edward Beech, Sonia Patole, Louise Staddon, Nick Maskell

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**OA1564**

**Pressurized Intra-Thoracic Aerosol Chemotherapy (PITAC): preliminary results in malignant pleural effusion**

Maria Giovanna Mastromarino (Pisa, Italy), Fabrizia Calabrò, Gianmarco Elia, Diana Bacchin, Vittorio Aprile, Stylianos Korasidis, Marcello Carlo Ambrogi, Marco Lucchi

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**OA1565**

**Discussion and Q&A**

All Speakers

Yellow 1+2+3  Session 183  15:45 - 17:00

Oral presentation: Tissue modelling and remodelling

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

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

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

**Chairs:** Niki Ubags (Epalinges, Switzerland), Sara Rolandsson Enes (Lund, Sweden)

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**OA1566**

**Late Breaking Abstract - Single-cell landscape of bronchoalveolar cells in inflammatory and fibrotic post-COVID residual lung abnormalities**

Puja Mehta (London, United Kingdom), Blanca Sanz-Magallón Duque De Estrada, Emma Dennenke, Kane Foster, Carolin Turner, Andreas Mayer, Martina Milighetti, Manuela Plate, Kaylee Worlock, Masahiro Yoshida, Jeremy Brown, Marko Nikolic, Arjun Nair, Benjamin Chain, Mahdad Noursedeghehi, Rachel Chambers, Joanna Porter, Gillian Tomlinson

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PA1582  Electronic peak flow in asthma – usefulness in pregnant and non-pregnant patients
Dorothy Ryan (Dublin 3, Ireland), Deirdre Long, Finbarr Harnedy, Rebecca Barton, Richard W. Costello

PA1583  Accelerating asthma diagnosis and treatment optimisation through a technology enabled home assessment program
Megan Robshaw (Gloucester, United Kingdom), Helen Parrott, Emma Raywood, Dandi Qiao, Eric Harker

PA1584  Addressing asthma management gaps with a respiratory digital ecosystem: A preliminary analysis
Christopher Lieskai (London (ON), Canada), Joseph Cafazzo, Madonna Ferrone, Denise Ng, Anna Hussey, Quynh Pham, Cailey Ranot, Paul Mastoridis, Shumit Saha, Karen Mezzi

PA1585  Evaluation of current self-management strategies in iOS and Android mobile applications on patients with asthma
Natsumi Nomura (Urayasu,Chiba, Japan), Jun Ueki, Emiko Sano, Megumi Ikeda, Norihiro Harada, Hiroo Wada

PA1586  Asthma-related goals to motivate adherence
Ayana Martins (Pfäffikon SZ, Switzerland), Giuseppe Ranieri

PA1587  Effectiveness of mobile-based rehabilitation in COPD patients: feasibility study from rural Rajasthan
Neeti Rustagi (Jodhpur, India), Naveen Dutt, Suseendar S, Navratan Suthar

PA1588  Quality and compliance to home-based spirometry in COPD patients
Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, Joanna C Porter, John R Hurst, Amos A Folarin

PA1589  Feasibility of wearable smart shirt technology for daily life physiology and symptom assessment in COPD
Hayley Lewthwaite (Merewether, Australia), Gennaro D'Elia, Sarah Johnson, Peter Gibson, Troy Cross, Vanessa M Mcdonald

PA1590  A digital mindfulness-based intervention for COPD patients: a pilot study investigating the effects on psychological distress and stress
Florian Vafai-Tabrizi (Wien, Austria), Hannah Tschenett, Georg-Christian Funk, Urs Markus Nater

PA1591  Telemonitoring and telerehabilitation in severe COPD patients awaiting lung transplant: a descriptive study
André Filipe Santos Nunes (Ponta Delgada, Portugal), Marta Santos, Cláudia Costa, Joana Barbosa, Cristina Santos, Fátima Rodrigues, Cristina Bárbara

PA1592  Impact of symptoms and disease severity on digital mobility outcomes in COPD
Dimitrios Megaritis (Newcastle upon Tyne, United Kingdom), Joren Buekers, Tecla Bonci, Emily Hume, Lisa Alcock, Alison Yarnall, Encarna Mico Amigo, Philip Brown, Christopher Buckley, Silvia Del Din, Carlos Echevarría, Claudia Mazzà, Lynn Rochester, Judith García-Aymerich, Ioannis Vogiatzis

PA1593  Telemonitoring of Symptoms and Lung Function in COPD for Early Detection of Exacerbations
Mustafa Abdo (Grosshansdorf, Germany), Anne Kirsten, Hans Klose, Tim Oqueka, Barbara Karlendorf, Erwin Junker, Daniel Drömmann, Thomas Bahrmeier, Klaus F Rabe, Henrik Watz

PA1594  Change in COPD Assessment Test (CAT) score from a stable baseline has a high predictive capability for acute exacerbations
Henry Glyde (Bristol, United Kingdom), Alison M. Blythin, Tom M. Wilkinson, Ian T. Nabney, James W. Dodd

PA1595  From high-resolution time series to a single, clinically-interpretable value - considerations for the aggregation of real world walking speed assessed by wearable sensors in patients with chronic obstructive pulmonary disease (COPD)
Sarah Koch (Vancouver, Canada), Joren Buekers, Inés Cobo, Jorge Lemos, José Marchena, Tecla Bonci, Brian Caulfield, Silvia Del Din, Heleen Demeyer, Anja Frei, Jeff M. Hausdorff, Anisooara Ionescu, Kamiar Amnian, Jochen Klenk, Enarna Mico Amigo, Paolo Piraino, David Singleton, Oleksandr Sverdlov, Lynn Rochester, Thierry Throosters, Judith García-Aymerich

PA1596  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, Leeren Talker, Ahmed Selim, Julian C Carter, Scott T Weiss, Gabriel Lambert, Gail Hayward, Thomas Brown, Vijaykumar Elango, Anoop Chauhan, Ameera X Patel

PA1597  Telemonitoring of patients with COPD: impact beyond hospital admissions
Elin Almeida (Guarda, Portugal), Filipa Jesus, Joana Ribeiro, José Manuel Silva, Luis Ferreira

PS-10 in poster area  Session 186  16:00 - 17:30
Poster session: Environment and respiratory health
Disease(s) : Airway diseases
Method(s) : Public health  General respiratory patient care  Epidemiology  Cell and molecular biology  Pulmonary function testing
Tag(s) : Translational
Chairs: Isabella Annesi Maesano (Montpellier, France), Giovanni Viegi (Pisa (PI), Italy)

PA1598 Associations of long-term exposure to low-level air pollution and greenness with incidence of protracted cough: results from the RHINE study
Isabella Annesi Maesano, Giovanni Viegi, Randi Jacobsen Bertelsen, Bryndis Benediktsdottir, Thorarinn Gislason, Jørgen Brandt, Lise Marie Frohn, Camilla Geels, Joachim Heinrich, Mathias Holm, Christer Janson, Rain Jogi, Iana Markevych, Hans Orru, Anna Oudin, Vivi Schlüssen, Torben Sigsgaard, Ane Johannessen

PA1599 Air pollution and childhood asthma in Iceland – results from the Nordic WelfAir project.
Ane Johannessen, Throstur Thorsteinsson, Camilla Geels, Lise Marie Frohn, Jørgen Brandt, Thorarinn Gislason

PA1600 Human airway Immune homeostasis and lung function are altered with controlled exposure to model wildfire smoke: characterizing susceptibility factors and the secretome
Meghan Rebuli, Catalina Cobos-Uribe, Alexis Payton, Martha Almond, Carole Robinette, Neil Alexis, Julia Rager, David Peden, Ilona Jaspers

PA1601 Green space during pregnancy and the development of asthma up to 27 years of age: The Espoo Cohort Study
Alva Hansson, Gregory Rankin, Oskari Uski, Maria Friberg, Jamshid Pourazar, Robert Lindgren, Natxo García-López, Christoffer Boman, Thomas Sandström, Annelie Behndig, Alia Mualu

PA1602 Greenness exposure: beneficial but multidimensional. A review.
Ane Johannessen, Shanshan Xu, Achenyo Peace Abbah, Christer Janson

PA1603 In vitro bioreactivity of tyre wear particles collected in real time on human alveolar epithelial cells
Khaled Alzahabi, Toyosi Akande, Ayeh Alobaidi, Georgia May Gamble, Nick Molden, Marc Stettler, Teresa Tetley

PA1604 Reduced bronchoalveolar phagocytosis after controlled short-term exposure to wood smoke in healthy humans
Alva Hansson, Gregory Rankin, Oskari Uski, Maria Friberg, Jamshid Pourazar, Robert Lindgren, Natxo García-López, Christoffer Boman, Thomas Sandström, Annelie Behndig, Alia Mualu

PA1605 Residential exposure to microbial emissions from livestock farms: implementation and evaluation of random forest land use models

PA1606 Joint association of air pollution exposure and inflammation-related proteins in relation to infant lung function
Shizhen He, Björn Lundberg, Jenny Hallberg, Susanna Klevebro, Göran Pershagen, Kristina Eneroth, Erik Melén, Matteo Bottai, Olenna Gruziev

PA1607 The role of biodiversity in the development of asthma and allergic sensitization: a systematic review and meta-analysis

PA1608 Spatially resolved air pollution models identify disparities in exposure by socioeconomic status (SES)
Meredith Barrett, Shadi Aslebagh, Vy Vuong, Emma Yakutis, Leanne Kaye, Jason Su

PA1609 Livestock farm exposures and lung function decline in neighboring residents: a 7-year follow up study
Warner van Kersen, Myrna De Rooij, Bernadette Aalders, Kaitlin Prins, Floor Borlée, Joris Yzermans, Dick Heederik, Mary Rice, Lidwien Smit

PA1610 The relationship between COVID-19 mortality and socioeconomic status, air quality and housing density in Ankara, Turkiye
Elif Reyhan Sahin, M Omur Gungor, Ahmet U Demir, A Fuat Kalyoncu

PA1611 Outdoor air pollution and asthma in low-and middle-income countries: a systematic review
Achenyo Abbah, Ane Johannessen

PA1612 The relationship between COVID-19 mortality and socioeconomic status, air quality and housing density in Ankara, Turkiye
Elif Reyhan Sahin, M Omur Gungor, Ahmet U Demir, A Fuat Kalyoncu

PA1613 Chemical composition and the oxidative potential of particulate matter (PM) in source-specific areas around the globe
Constantinos Sioutas, Vahid Jalali Farahani, Abdulmalik Altuwayjiri

PA1614 Household air pollution and lung health in children: A systematic review and meta-analysis
Om Prakash Kurmi, Nagendra Chaudhary

PA1615 Temporal evolution of PM2.5 levels in relation to Covid-19 mortality in Europe between early-2020 to end-2022 period
Isabella Annesi Maesano, Jean-Baptiste Renard, Jeremy Surcin, Eric Poincelot
PA1615  Partial pressure of arterial oxygen in healthy at altitude - A systematic review
Aglia Forrer (Baar, Switzerland), Thomas Gaisl, Ahmet Sevik, Michelle Meyer, Luzi Senteler, Mona Lichtblau, Konrad Ernst Bloch, Silvia Ulrich, Michael Furian

PA1616  Health risk perception profiles in Gela: a latent class analysis
Giacomo Ilardo (Palermo, Italy), Alessandra Pandolfò, Velia Malizia, Giovanna Cilluffo, Salvatore Fasola, Giuseppe Piva, Liliana Cori, Giovanni Vieggi, Stefania La Grutta

PA1617  Assessing the prevalence of pressurized Metered-dose Inhalers among COPD patients & their eligibility to switch to Dry Powdered Inhalers.
Archana Ganapathy (London, United Kingdom), Asif Khapedi, Kanwar Pannu, Mukherjee Dipak

PS-11 in poster area  Session 187  16:00 - 17:30
Poster session: Preschool wheeze and asthma: viruses, environmental and other risk factors

PA1618  Outdoor air nitrogen dioxide augments exercise-induced bronchoconstriction in children
Anna Pauliina Tikkakoski (Nokia, Finland), Antti Tikkakoski, Kalle Sipilä, Juho Kivistö, Mika Kahonen, Jussi Karjalainen, Lauri Lehtimäki

PA1619  Rhinovirus-induced preschool wheeze in combination with allergic sensitization increases the risk of asthma in early adolescence
Idun Holmåsdahl (Stockholm, Sweden), Sofia Lüning, Anna Asarnoj, Anastasia Filiou, Sabina Wärnberg Gerdin, Magnus Borres, Marianne Van Hage, Cilla Söderhäll, Jon R Konradsen

PA1620  RSV (Respiratory Syncytial Virus) infection in infancy and its impact on childhood wheezing at 2-year, 4-year and 6-year age: A single center long term follow-up ARSVIAA study (ARSVIAA study-Association of RSV, IgE and atopy in childhood asthma)
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Yogesh Utage, Abhijit Acharya, Sham Toshniwal

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

PA1622  Association of FCER2 gene polymorphisms with childhood asthma
Azer Kılıç Baskan (Istanbul, Turkey), Berrak Nevin Oztosun, Huseyin Arslan, Ayše Ayzıt Kılınc Sakallı, Haluk Cezmi Cokugras

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

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

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

PA1626  Asthma and attention deficit hyperactivity disorder in childhood: birth cohort study
Mohammad Talaei Pashiri, Panagiota Pagoni, Evie Stergiakouli, Seif O. Shaheen

PA1627  Sex differences in childhood asthma is driven by a T2-high phenotype and mediated through sex hormone metabolites
Laura Hesselberg (København N, Denmark), Nicklas Brustad, Rikke Bjersand Sunde, Min Kim, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bonnelykke, Bo Chawes

PA1628  Is your home impacting on your child's asthma?
Abigail Whitehouse (London, United Kingdom), Charles Moorcroft, Jonathan Grigg
Pattern and risk factor of lower respiratory illness in children who survived meconium aspiration syndrome
Kwang Hee Kim (Bucheon, Republic of Korea), Danbi Kim, Youngah Youn, Juyoung Lee, Hwan Soo Kim

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

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

Perturbed urinary eicosanoids levels in early life associate with risk of atopic diseases in childhood
Liang Chen (Copenhagen, Denmark), Nicklas Brustad, Min Kim, Yang Luo, Tingting Wang, Mina Ali, Ann-Marie Schoos, Jakob Stokholm, Morten A Rasmussen, Klaus Bønnelykke, Javier Zurita Pérez, Johan Kolmert, Craig E Wheelock, Jessica Lasky-Su, Bo Chawes

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

Consensus priorities for outcomes in oral corticosteroid treatment for preschool wheeze: a nominal group technique study with clinicians and parents
Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Jasmine Hine, Ann Mcmurray, Damian Roland, Meredith Borland, Péter Csonka, Jonathan Grigg, Theresa Guilbert, Tuomas Jartti, Abraham Oommen, Steff Lewis, Steve Cunningham

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

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

Patients previously treated for childhood interstitial lung disease display an increased prevalence of cognitive deficits, depression and anxiety.
Astrid Madsen Ring (Gentofte, Denmark), Martin Vestergaard, Ida 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 Sarkanj 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 Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, 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 Öğüz, Halime Nayır Büyükşahin, İsmail Güzelkaş, Birce Sunman, Meltem Akgül Erdal, Ebru Yağcın, Deniz Doğu, Uğur Özçelik, Nural Kiper

Complications of tracheobronchial foreign body aspiration in children

Alexandru Corlateanu (Chisinau, Republic of Moldova), Diana Rotaru-Cojocari, 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 Çiğmanlar Eyuboglu (Ankara, Turkey), Ayşe Taş Aslan, Pelin Asfüroğlu, Nursima Kunt, Ali Ersoy, Mehmet Kose, Gökçen Unal, Sevgi Pekcan

Evaluation of the efficacy of inhaled bronchodilators in infants with bronchiolitis through respiratory function testing: a pilot study

Laura Petrarca (Roma (RM), Italy), Raffaella Nenna, Maria Giulia Conti, Domenico Paolo La Regina, Enrica Mancino, Elio Iovine, Antonella Frassanito, Fabio Midulla

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 Sonnappwa

Evaluation of Children with Stridor by Flexible Bronchoscopy

Merve Nur Tekin (Ankara, Turkey), Mukaddes Agirtici, Gizem Özcan, Fazılcan Zirek, Sercanattin Bayav, Nazan Çobanoğlu

Alexithymia in primary ciliary dyskinesia

Gökçen Unal (Konya, Turkey), Hanife Tugçe Çaglar, Sevgi Pekcan, Fatih Ercan, Aslı Turkut

Late Breaking Abstract - Are breath-actuated inhalers effective in managing acute asthma exacerbations in children?

Sowmya Arudi Nagarajan (Bangalore (Karnataka), India), Vaishali Naik, Meena Lopez, Jaideep Gogtay

Late Breaking Abstract - Metabolic Genealogy of Allergic Diseases in Childhood

Xiaolong Deng (Guangzhou, China), Yuanqi Wang, Cuiilian Mo, Zhihui He, Baoqing Sun, Jiaying Luo

Late Breaking Abstract - Burden of allergic rhinitis in children in the UK and Canada: A cross-sectional study

Mercedes Romano Rodriguez (Hørsholm, Denmark), Anne Sofie Ledgaard Lofthager, Simone Dupont Bengtsson, Mette Bøgelund, Mark Aagren, Jose Maia E Costa, Elana Lavine

Late Breaking Abstract - Siblings as a risk factor to guide RSV prophylaxis in Korean infants

Ian Keary (Reading, United Kingdom), Ji-Man Kang, Xavier Carbonell-Estrany, Barry Rodgers-Gray, John Fullarton, Bosco Paes

Inhalation therapy: educational intervention to avoid complications

Carla Barros (Vila Boa de Quires, Portugal), Mónica Pinheiro

Psychological vulnerability mediates the relationship between pain perception in stable COPD patients.

Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benitez, Sofia Hernández Hernández, Alejandro Heredia Ciaró, Andrés Calvache Mateo, Miguel Hernández Serrano, Marie Carmen Valenza

PS-13 in poster area  Session 189  16:00 - 17:30

Poster session: Nursing interventions and outcomes

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

Method(s): General respiratory patient care, Palliative care, Pulmonary rehabilitation, Public health, Epidemiology, Respiratory intensive care

Tag(s): Clinical

Chairs: José Miguel dos Santos Castro Padiha (Porto, Portugal), Malin Axelsson (Malmö, Sweden)

Inhalation therapy: educational intervention to avoid complications

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Psychological vulnerability mediates the relationship between pain perception in stable COPD patients.

Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benitez, Sofia Hernández Hernández, Alejandro Heredia Ciaró, Andrés Calvache Mateo, Miguel Hernández Serrano, Marie Carmen Valenza
Assessing health status of patients with COPD using CAT and HADS screening tools: A cross-sectional study
Helga Jonsdottir (Reykjavik, Iceland), Þ. Soley Ingadottir, Stella Stefandsdottir

Impact of multimorbidity on depressive symptoms in self-reported COPD
Jungeun Lee (Kingston, United States)

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

Sputum colour as an indicator of quality of life in patients with bronchiectasis
Leticia Bueno Freire (Barcelona, Spain), Patricia Oscanoa, Victoria Alcaraz Serrano, Andrea Palomeque, Rubén López Aladid, Nil Vázquez, Roberto Cabrera, Rosanel Amaro, Laia Fernández Barat*, Antoni Torres*

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

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

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

How many patients with sleep apnoea experience pressure discomfort from the CPAP mask? How can pressure discomfort from the CPAP mask best be prevented?
Lonnie Sneistrup (Svendborg, Denmark), Anne Dichmann Sorknæs, Helle Guldager Corydon

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

Repercussions of rehabilitation nurse’s intervention on critical patients’ ventilation with inspiratory muscle training
Luís Esteveão (Matosinhos, Portugal), Maria José Gomes, Liliana Silva

Sex, functional impairment, lung injury, and rib fracture pattern impact on disability in patients with a longer hospital stay.
Maria Granados Santiago (Alcaudete, Spain), Julia Raya Benitez, Sofia Hernández Hernández, Javier Martín Nuñez, Laura López López, Irene Cabrera Martos, Marie Carmen Valenza

Correlation study between sleepiness while driving, and daytime sleepiness.
Alejandro Pastor Campo (Sant Boi de Llobregat (CT), Spain), Victoria Pastor Campo, Isabel Portela Ferreño

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

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

Safe discharge in a streamlined practice: A qualitative study of nurses’ approach in ending courses of patients with COPD after admission to a medicinal pulmonary ward.
Nanna Vendelboe Gregersen (Aarhus N, Denmark), Dorthe Sørensen

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

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

Poster session: COVID-19 treatments
Disease(s): Respiratory critical care, Airway diseases
Method(s): Public health, Respiratory intensive care, Pulmonary function testing, Cell and molecular biology, General respiratory patient care, Epidemiology
Tag(s): Clinical
Chairs: Megan Crichton (Dundee (Angus), United Kingdom), Michal Shteinberg (Haifa, Israel)
Lactoferrin in Long COVID patients (LARGO): a randomized, double-blind, controlled trial
Anne-Lotte Redel (Rotterdam, Netherlands), Fatana Miry, Laurien Oswald, Gert-Jan Braunstahl

Post hoc analysis of a phase 3, cluster randomised clinical trial of peginterferon beta-1a to reduce transmission of SARS-CoV-2: effect of viral load on transmission and risk factors for hospitalisation
Samuel Montgomery (Leederville (WA), Australia), Yuliya Karpievitch, David Hancock, Stephen Stick. On Behalf Of The Concord-19 Study Team

Bevacizumab in addition to standard of care did not shorten the time to improve hypoxemia in severe hypoxemic COVID-19 pneumonia in a prospective randomized controlled trial.

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

Virucidal efficacy of cetylpyridinium 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 Srichatrapimuk, Tananchai Petnak, Dararat Eksombatchai, Kanin Thammanavarunuch, Somnuek Sangkanuparph, Yuda Sutherasan

Antiviral and anti-inflammatory effects of Erodstein and MET-1 in SARS-CoV-2 in vitro infection
Sergio Strizzi (Milan, Italy), Fiammetta Danzo, Claudia Vanetti, Mara Biasin, Dejan Rudovanovic, 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, Lucia Marin-Barrera, Javier Rodríguez-Martorell

Remdesivir versus favipiravir in hospitalized COVID-19 patients
Dóra Paróczai (Deszk, Hungary), András Bikov, Andrea Blidaru, Emanuel Bobu, Bianca Cerbu, Iosif Marincu, Stefan Mihaica, Stefan Trent

Inhaled corticosteroids for post-hospital rehabilitation treatment of patients with COVID-19
Natalia Chaplynska (Ivano- Frankivsk, Ukraine), Victoria Rudnyk

Karuna Chavalertsakul (Bangkok, Thailand), Tanachai Petnak, Viboob Boonsangsuk, Somnuek Sangkanuparph, Kanin Thammanavarunuch, Suppachok Kirdlarp, Yuda Sutherasan

Is Anakinra effective and safe for severe COVID-19 disease? A Comprehensive Systematic Review of 44 studies including 3179 patients

Chronic COPD medications and CoViD-19 mortality- an observational study.
Anastasios Stringaris (HERAKLION, Greece), Georgios Makris, Theodoros Moschopoulos, Eirini Pasparaki, Myrto Plekousaki, Emmanueloul Ferdousis, Georgios Meletis

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 Bell, 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 Brighting, 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 Cvetković 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

The Effect of Inhaled Corticosteroid (ICS) Use in the Outcomes of COVID-19 Pneumonia among Patients 18 years old and Above Diagnosed with Asthma and COPD in a Tertiary Hospital: A Retrospective Cohort Study
Jay Andrew Ilagan (Pasig, Philippines), Evelyn Victoria Reside

PS-15 in poster area
Session 191 16:00 - 17:30
Poster session: The 3 Ts of lung cancer management: targets, treatment response and troubles
Disease(s) : Thoracic oncology Airway diseases
Method(s) : Cell and molecular biology General respiratory patient care Respiratory intensive care Epidemiology Surgery Public health Endoscopy and interventional pulmonology
Tag(s) : Clinical
Chairs : Chair to be confirmed

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
Ritsuaya Shiba, 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
Fükang 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-Cell Lung Cancer in Patients with COVID-19 Infection
Kristina Krpina (Strmec Samoborski, Croatia), Ena Tolić, Dora Darapi, Ana Hećimović, Dina Mihelčić Korte, Miroslav Samaržija, Lora Batičić

CD8+ T cell trajectory subtypes determine clinical outcome and therapy response in LUAD
Benteng Deng (München, Germany), Jianlong Jia, Lingru Kang, Lilith Trassl, Daniela Dietel, Dmytro Sirokha, Andrea Schamberger, Asma Snkar, Georgios Stathopoulos, Isis Fernandez

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

The long-term outcome of epidermal growth factor receptor mutation in stage IV lung adenocarcinoma patients.
Chung-Jen Huang (New Taipei city, Taiwan), Justin Chen, An-Chen Feng, Cynthia Lin

Prognostic implication of KRAS G12C mutation in a real-world KRAS mutated stage IV NSCLC cohort treated with immunotherapy in the Netherlands
PA1706 Exploration of anticancer drug response prediction model using patient derived organoids with ALK-positive lung cancer  
Hyeong Jun Cho (Seoul, Republic of Korea), Sang-Yun Lee, Dong Woo Lee, Seung Joon Kim, Chang Dong Yeo

PA1707 Smoking status at time of diagnosis affects the efficacy of anti-PD-1/L1 therapy in patients with advanced non-small cell lung cancer  
Kim Kyu Yean (Seoul, Republic of Korea), Kim Jin Woo, Yeo Chang Dong

PA1708 PD-L1 expression on NSCLC lung tumors is affected by the presence of COPD.  
Martina Maria Ferrara (Padova, Italy), Mariaenrica Tine, Umberto Semenzato, Giulia Frasson, Davide Biondini, Marco Damin, Federica Pezzuto, Fiorella Calabrese, Simonetta Baraldo, Manuel G. Cosio, Marina Saetta

PA1709 Evaluation of adverse events of tremelimumab, a recently FDA-approved anti-CTLA-4 antibody for non-small cell lung cancer  
Jing Huang (Chong qing, China), Yibei Zhao, Long Meng

PA1710 Possible Risk Factors for Immune Related Pneumonitis Relapses  
Lidia Mendez Mangas (Sant Joan Despi, Spain), Alfredo Marin Muñoz, Isabel Brao Perez, Monica Arellano Vengoechea, Arturo Navarro Martin, Miriam Nuñez Fernandez, Ramon Palmero Sanchez, Ernest Nadal Alforja, Salud Santos Perez, Susana Padrones Sanchez, Samantha Aso Gonzalez

PA1711 Clinical risk factors for checkpoint pneumonitis vs. other pneumonitis in lung cancer patients treated with checkpoint inhibitors  
Lukas Wehltle (München, Germany), Lea Daisenberger, Julia Walter, Lucie Heinzlering, Thomas Pfluger, Amanda Tufman

PA1712 Exploiting the kynurenine pathway to combat platinum-resistant non-small cell lung cancer (NSCLC)  
Medhi Wangpaichitr (Miami, United States), Chunjing Wu, George Theodore, Sydney Spector, Dan Nguyen, Lynn Feun, Nimamol Savaraj

PA1713 Study of the efficacy of intravenous BCG in a metastatic lung adenocarcinoma mouse model.  
Claudia Guerrero (Zaragoza, Spain), Eduardo Moreo, Santiago Uranga, Ana Belen Gomez, Carlos Martin, Nacho Aguiló

PA1714 Comparing the Effectiveness of Different Anti-angiogenetic Agents Combined with an EGFR-TKI in Metastatic Lung Adenocarcinoma  
Chung-Wen Huang (Kaohsiung, Taiwan), Chih-Jen Yang, Ming-Ju Tsai, Jen-Yu Hung, Inn-Wen Chong

PS-16 in poster area  Session 192  16:00 - 17:30
Poster session: Pulmonary fibrosis: impact, diagnosis, and management

Disease(s): Interstitial lung diseases

Method(s): Epidemiology Imaging Public health Endoscopy and interventional pulmonology General respiratory patient care Pulmonary function testing Pulmonary rehabilitation Physiology Palliative care

Tag(s): Clinical

Chairs: Sara Tomassetti (Florence, Italy), Lurdes Planas Cerezales (Barcelona, Spain)

PA1715 Clinical use of telomere length in idiopathic pulmonary fibrosis  
Antoine Froidure (Bruxelles, Belgium), Trejsi Muça, Marie-Astrid Van Dievoet, Anabelle Decottignies

PA1716 Screening of first-degree relatives of IPF patients with a telomere-related gene mutation  
Tinne Goos (Leuven, Belgium), Nathalie Veyt, Evelien Van Hoof, Karen Rosier, Stefan Gogaert, Marie Vermant, Lynn Willems, Frederik Staels, Ilse Van Raemdonck, Sam Thierie, Emanuela Elsa Cortesi, Laurens J De Sadeeleer, Jonas Yserbyt, Nico De Cre, Joseph Jacob, Marianne S Carlon, Johny Verschakelen, Adriana Dobbeldam, Anniek Corveleyn, Stijn E Verleden, Sascha Vermeer, Wim A Wyts

PA1717 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

PA1718 Barriers and facilitators when talking about personal values, wishes and needs nearing the end-of-life. A qualitative exploration of a patient and partner perspective  

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

PA1720 Mortality and Lung Function Decline of Idiopathic Pulmonary Fibrosis Patient with Ezetimibe and Pirfenidone  
Jinhyung Cho (Seoul, Republic of Korea), Chanho Lee, Se Hyun Kwak, Young Sam Kim
A new instrument to assess disease-related fears in Interstitial Lung Disease (ILD): The ILD-Anxiety-Questionnaire (IAQ)
Nina Piel (Berlin, Germany), Michael Kreuter, Klaus Kenn, Nikola Stenzel

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

Preclinical idiopathic pulmonary fibrosis (IPF): a retrospective cohort study
Tomohiro Bando (Seto, Japan), Reoto Takei, Jun Fukihara, Hajime Sasano, Yasuhiro Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kunsuke Kataoka, Tomoki Kimura, Hiroto Hatabu, Junya Fukuoka, Takeshi Johkoh, Yasuhiro Kondoh

Impulse oscillometry assesses small airway disease and reveals peripheral lung pathology in pulmonary fibrosis
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 Faverio, Alessia Fumagalli, Sara Conti, Fabiana Madotto, Francesco Bini, Sergio Harari, Michele Mondoni, Tiberio Oggioni, Emanuela Barisone, Paolo Ceruti, Maria Chiara Papetti, Bruno Dino Bodini, Antonella Caminati, Angela Valentino, Stefano Centanni, Paola Lanzi, Matteo Della Zoppa, Silvia Crotti,Marco Grossi, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Nicali, Giulia Suigo, Sara Busnelli, Giuseppe Piaciocco, 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), Shaula 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), Kazuaki Hamada, Takeshi Abe, Keiji Oishi, Tsunahiko Hirano, Yoshiyuki Asai, Kazuto Matsunaga

Trans-bronchial cryobiopsy is superior to forceps biopsy for diagnosing both fibrotic and non-fibrotic interstitial lung diseases
Ophir Freund (Tel Aviv, Israel), Ori Wand, Sonia Schneer, Nevo Barel, Tamar Shalmon, Sarah Borsekofsky, Tzilil Hershko, Evgeni Gershoni, 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, Frederique Corne, Nathanael Carlier, Valentin Patarin, Claire Defrance, Renan Liberge, Olivier Morla, Arnaud Cavailles, Laurent Cellerin, F.Xavier Blanc, Stephanie Diour

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), Marie 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 Ramirez, Maria Noboa Sevilla, Maria Benegas Urteaga, Alejandro Frino Garcia, Juanissi Turaren Gonzalez, Nancy Perez Rodas, Fernanda Hernandez Gonzalez, Marcelo Sanchez Gonzalez

PS-17 in poster area

Session 193
16:00 - 17:30
Poster session: Sarcoidosis: challenges in disease assessment and management of complications

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

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

Tag(s) : Clinical

Chairs : Paolo Spagnolo (Padova (PD), Italy), Dominique Israel-Biet (Paris, France)
Long-term effectiveness of infliximab treatment in refractory sarcoidosis
Angéla Mikáczó (Nyírábrány, Hungary), Ildikó Horváth, László Brugós, Anna Sárközi

Lung Texture Analysis to phenotype Sarcoidosis
Andrew McCorkell (Belfast, United Kingdom), Cormac Mccool, Victoria Steele, Lisa Graham, Rory Kelly, Eoin Murtagh, Paul Minnis

Survival in sarcoidosis – 11 years of observation of 2625 patients.
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros

Cardiac and brain involvement in Sarcoidosis, Data from the Austrian registry
Claudia Guttmann-Ducke (Wien, Austria), Christopher Milacek, 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 Trutar

Monitoring thoracic sarcoidosis with cardiopulmonary exercise test and spirometry, their insights to nuclear imaging inflammatory activity
Chiara Torregiani (Trieste (TS), Italy), Matia Reale, Marco Confalonieri, Barbara Ruaro, Guido Maiello

Characteristics of sarcoidosis patients admitted to hospital – one center experience
Karol Bączek (Łódź, Poland), Joanna Miłkowska-Dymanowska, Wojciech Piotrowski

Therapeutic doses of efzotimod significantly improve multiple pulmonary sarcoidosis efficacy measures
Nelson Kinnersley (Harpenden, United Kingdom), Abhijeeth Chandrasekaran, Pavithra Ramesh, Vis Niranjan, Sanjay Shukla, Robert P Baughman

Multicenter, randomized, double-blind, phase 2 study to assess the efficacy and safety of OATD-01, an oral inhibitor of chitinase-1 for the treatment of active pulmonary sarcoidosis.
Zbigniew Zasłona (Warszawa, Poland), Theodore Charitos, Barbara Dymek, Tomasz Rejczak, Adam Golębiowski, Piotr Iwanowski, Marta Dudek, Samson Fung

Prevalence of refractory pulmonary sarcoidosis in Ukraine
Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavrysyuk, Yaroslav Dziublyk, Galyna Gumieniuk

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
Gianmarco Gasparini (Jesi, Italy), Lara Letizia Latini, Federica Agosti, Federico Mei, Lina Zuccatosta, Francesco Maria Porcarelli, Francesca Gonnelli, Martina Bonifazi

Clinical characterisation of thoracic sarcoidosis in Spain
Joel Francesqui (Barcelona, Spain), Elena Bollo, Ana Villar, Pablo Flórez, Eva Balcells, Gema Castaño, Javier Pinillos, 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

Poster session: Physiology in pulmonary hypertension

Disease(s): Pulmonary vascular diseases
Method(s): Physiology Imaging Pulmonary function testing Pulmonary rehabilitation
Tag(s): Clinical

Clinical relevance of exercise pulmonary arterial compliance
Katarina Zeder (Graz, Austria), Chiara Banfi, Vasile Foris, Teresa Sassmann, Andrea Berghold, Horst Olschewski, Gabor Kovacs, Philipp Douschan

Is the estimation of peak oxygen consumption reliable using the six-minute walk test in patients with pulmonary hypertension?
Estrella Caballeria Lamelas (Badalona (Barcelona), Spain), Rodrigo Torres Castro, Elena Gimeno Santos, Maria Caridad Mata Salvador, Agustin Roberto Garcia, Xavier Alsina Restoy, Clara Martin Ontiyuelo, Ana Maria Ramirez Gallardo, Joan Albert Barberà, Isabel Blanco

A qualitative exploration of pulmonary hypertension patients’ views and experience with a remotely delivered home-based exercise program
Ciara McCormack (Navan, Ireland), Brona Keohoe, 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 (Sao Caetano do Sul (SP), Brazil), João Vitor Rolim, Ivan Ivanaga, Priscila Sperandio, Eloara Ferreira, Jaqueline Otá-Arakaki, Luiz Eduardo Nery, Roberta Ramos

Reproducibility of CPET variables in subjects with pulmonary arterial hypertension: Preliminary data from ADVANCE CAPACITY
Carrie Ferguson (Torrance, United States), Janos Porszasz, Louis Holdstock, Youlan Rao, David Yehle, Raymond Benza, Ronald Oudiz

A pilot study of a digital 1-Minute Walk Test as a novel decentralised endpoint in pulmonary hypertension research
Joseph Newman (Cambridge, United Kingdom), Lucy Robertson, Jean Gosbee, Gary Polwarth, Shaun Clayton, Iain Armstrong, Elisa Ferrer-Mallol, Sandra Komarzynski, Elin Haf Davies, Mark Toshner

Perceived barriers to physical activity in pulmonary hypertension
Layse Nakazato (Campinas, Brazil), Vitória Veronez, Tatiana Kiyota, Paulo Mendes, Marcos Moreira, Mônica Pereira

Usefulness of Heart rate variability measurement during 6-MWT in Pulmonary Arterial Hypertension
Andrea Lombi (Védano al Lambro (MB), Italy), Chiara Milano, Giulia Pittalis, Marta Tundo, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Paola Faverio, Fabrizio Luppi, Giuseppe Paciocco

Correlation between lung vessel morphology and prognostic markers in pre-capillary pulmonary hypertension
Michael Pienn (Graz, Austria), Roman J. Gertz, Felix Gerhardt, Jan R. Kröger, Hasan Zaytoun, Robert P. Reimer, Anil Kaplan, Max Wissmüller, Gabor Kovacs, Stephan Rosenkranz, Horst Olschewski, Alexander C. Bunck

Increased right ventricular myocardial strain in unaffected adults carrying gene mutations predisposing to pulmonary arterial hypertension
Eszter Nóra Tóth (Amsterdam, Netherlands), Lucas Celant, Samara Jansen, Lilian Meijboom, Frances S De Man, Anton Vonk Noordegraaf, Harm Jan Bogaard

Impact of pulmonary arterial hypertension therapies on gas exchange in portopulmonary hypertension
Thomas Lacoste-Palasset (Saint mande, France), Antoine Beurnier, Audrey Baron, Marie-Caroline Certain, Xavier Jaïs, Anne Roche, David Montani, Marc Humbert, Olivier Srbon, Laurent Savale
The impact of tricuspid regurgitation on the non-invasive assessment of stroke volume derived from cardiac magnetic resonance in pulmonary hypertension
Andrea Baccelli (Milano, Italy), Deepa Gopalan, Gulammehdi Haji, Rachel Davies, Michele Mondoni, Stefano Centanni, Luke Howard, Francesco Lo Giudice

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 Csenegeri, 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. Schneider, Anna Titz, Esther I. Schwarz, Stephanie Saxer, Michael Furian, Ekkehard Grünig, Silvia Ulrich, Mona Lichtblau

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 Ouergi, 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 Zucatosta, Alessandro Di Marco Berardino, Michele Sediani, Francesca Gonnelli, Laura Cirilli, Francesco Maria Porcarelli, Piero Emilio Balbo, Elena Paracchini, Giovanna Elisiana Carpanago, 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 L.P Lo, Joyce K.C Ng, Chin Wing Yu, Fanny W.S Ko, Johnny W Chan, David S.C Hui, Y C G Lee
PA1781  Safety of Ultrasound-guided Medical Thoracoscopy in Patients with Minimal Pleural Effusion  
Juei Yang Ma (Kaohsiung, Taiwan), Ying Ming Tsai, Wei An Chang, Pei Chien Tsai, Yen Lin Chiu, Ya-Ling Hsu, Yung-Chi Huang, Chai-Tung Ong

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

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

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

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

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

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

PA1788 To evaluate diagnostic yield of small cup biopsy forceps for trans bronchial lung biopsy in adult patients of post viral fibrotic lung disease in post viral/covid era.  
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Charul Dalbar, Manya Narain Tyagi

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

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

PA1791 Conscious sedation in bronchoscopy: A randomized controlled trial  
Lenda Ben Hmida (Rades, Tunisia), Islam Mejri, Marwa Kacem, Selsabil Daboussi, Samira Mhamdi, Charaz Aichaouia, Zied Moatemri

PA1792 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

PA1793 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

PS-2 in poster area  
Session 196  
16:00 - 17:30  
Postersession: Respiratory muscle function and rehabilitation

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

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

Tag(s):  
Clinical

Chairs:  
Christina M. Spengler (Zürich, Switzerland), Mathieu Marillier (Echirolles, France)

Breathing Under Pressure: An exploratory analysis of differences in respiratory muscle activity and work of breathing during exercise in COPD and ILD  
Jeferson George Ferreira (São Paulo (SP), Brazil), Vinícius Carlos Iamonti, Mayra Caleffi Pereira, Renata Pletsch-Assunção, Marcelo Ceneviva Macchione, Pauliane Vieira Santana, Leticia Zumpano Cardenas, Pedro Caruso, Carlos Roberto Ribeiro Carvalho, André Luís Pereira Albuquerque

PA1794 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 Ježić, Renata Huzjan Korunić, Josip Tečer, Stela Hrkač, Joško Mitrović, Nevenka Piskač Živković

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

Sarcopenic muscle extracellular matrix dictates muscle adaptations in a 3D-engineered muscle model of COPD
Davina C M Simoes (Newcastle upon Tyne, United Kingdom), Elpraxia 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 Adani (Kingston, United States), Michele Vitacea, Harry B. Rossiter, Alessandro Caviechia, 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 vasoconstriction to pulmonary rehabilitation in COPD patients and impaired exercise-induced mobilization of endothelial-colony forming cells
Elodie Desplanche (Montpellier, France), Léa Blervaque, Sven Günther, Maxime Gruet, Aurélien Philippe, Jeanne Rancic, Nicolas Gendron, Christophe Hédon, Antonia Pérez-Martín, Anne Virsolvy, Olivier Cazorla, Yves Dauvilliers, Maurice Hayot, Arnaud Boudin, Elisa 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 Franck, Eline Lauwers, Benjamin Lavon, Jan De Backer, Bita Hajiian, Wilfried De Backer

Effect of Exercise Training on Prognosis in Community-Acquired Pneumonia: A Randomised Controlled Trial
Camilla Koch Tyrso (Frederiksborg, Denmark), Daniel Faurbolt-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 Champignoule, 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 Spiesshofer

Impact of blunted cerebral oxygenation on COPD patients’ functional performance
Aforoudi Boutou (Thessaloniki, Greece), Marieta Theodorakopoulou, Aggelos Koutlas, Andreas Zafeiridis, Panteleimon Sarafidis, Konstantina Dipla

Late Breaking Abstract - Inspiratory muscle strength training improves dyspnea related to diaphragm muscle weakness in patients with long COVID-19
Jens Spiesshofer (Aachen, Germany), Binaya Regmi, Rainer Glückl, Michael Dreher
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<td>Maged Hassan (Alexandria, Egypt), Casper Falster (Odense, Denmark)</td>
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<td>Use of Diaphragmatic Ultrasound to evaluate respiratory function in patients with Amyotrophic Lateral Sclerosis</td>
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<td>Pleural irregularity and diaphragm mobility among patients with systemic sclerosis</td>
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<td>Role of Lung Ultrasound in detection and assessment of severity of ILD in patients with Systemic sclerosis</td>
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<td>Diaphragm sonography as an educational aid in CPAP and NIMV treatment</td>
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<td>US training system for ultrasound-guided thoracic interventions</td>
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<td>Diagnostic accuracy of lung ultrasound with elastography in predicting malignant origin of pleural effusions in an emergency department</td>
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<td>Quantitative US echogenicity to differentiate exudate from transudate pleural effusion</td>
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<td>Difference in strain elastosonography between benign and malignant peripheral lung lesions</td>
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<td><strong>PA1827</strong></td>
<td>A retrospective review of the sonographic features of rheumatoid pleuritis.</td>
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<td><strong>PA1828</strong></td>
<td>Replacing fluoroscopy with ultrasound to evaluate diaphragm excursion? A method comparative study.</td>
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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 Firincioglugari (Nicosia, Cyprus), Hakan Ertürk, Muğan Firincioglugari, 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

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 Rodríguez-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 Kjær 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), Dimo Dimov, Tanya Tacheva, Kahan Celik, Tatyana 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, Meritxell López, Josep Luis Valera, Angel Rios, Rocío Martínez, Aarne Fleischer, Nuria Toledó, và Emilia Perotí, Valèria Dormoy

Identification of novel Hedgehog signalling modulators altered in COPD patients
Laure M. G. PETIT (Reims, France), Randa Belgacemi, Julien Ancel, Pauline Mulette, Audrey Brisebarre, Myriam Polette, Gaëtan Deslée, Jeanne-Marie Perotí, Valèria 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, Éllie 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 Kotsioud, 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

Development of a huPCLS platform to explore IL-33 biology and test novel therapies
Josquin Nys (Cambridge (Cambridgeshire), United Kingdom), Katherine Stephenson, Aoife Kelly, Claire Hollins, Sofia Koch, Tina Baker, Yoichiro Ohne, Jingjing Li, Xavier Romero Ros, Suzanne Cohen

MicroRNA transfection of 3D lung tissue model is possible
Joanna Nowakowska (Poznań, Poland), Wojciech Langwiński, Iran Augusto Neves Silva, Nika Gvazava, Aleksandra Szczepankiewicz, Darcy E Wagner

Single-cell RNA sequencing reveals defective bronchial epithelial cell differentiation in patients with severe COPD in 3-dimensional organoid cultures
Kingsley Okechukwu Nwozor (Vancouver, Canada), Tillie-Louise Hackett, Chen Xi Yang, Aurore C. A. Gay, Jelmer Vlasma, Martin Banchero, Marissa Wisman, Mubeen Khan, Djoko V. Gosliga, Tessa Kole, Dirk-Jan Slebos, Karin Klooster, Maarten V. D. Berge, Martijn C. Nawijn, Corry-Anke Brandsma, Irene H. Heijink

Poster session: Cutting-edge approaches to model and treat lung disease

Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : Cell and molecular biology
Tag(s) : Basic science, Translational

Chairs : Mareike Lehmann (Marburg, Germany), Thomas Wilkinson (Southampton (Hampshire), United Kingdom)

Development of a huPCLS platform to explore IL-33 biology and test novel therapies
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Kingsley Okechukwu Nwozor (Vancouver, Canada), Tillie-Louise Hackett, Chen Xi Yang, Aurore C. A. Gay, Jelmer Vlasma, Martin Banchero, Marissa Wisman, Mubeen Khan, Djoko V. Gosliga, Tessa Kole, Dirk-Jan Slebos, Karin Klooster, Maarten V. D. Berge, Martijn C. Nawijn, Corry-Anke Brandsma, Irene H. Heijink
PA1856  Rat-to-human translation of an antigen-specific, CD4+ T-cell-induced model of airway myocyte hyperplastic remodeling
Eder Fredy Mateus Medina (Barcelona, Spain), Nadia S. Brienza, Santiago Sánchez-Cabús, Vicente Plaza, David Ramos Barbon

PA1857  Tridimensional microscopy unravels distal architecture of IPF
Youri Bertrand (Woluwe Saint-Pierre, Belgium), Thomas Planté-Bordeneuve, Marylène Lecocq, Caroline Bouzin, Charles Pilette, Antoine Froideur

PA1858  Additional effects of oral prednisolone following mepolizumab on the nasal transcriptome
Imran Howell (Oxford, United Kingdom), Freda Yang, Jennifer Cane, John Busby, Liam G Heaney, Peter Howarth, Ian D Pavord, Chris E Brightling, Timothy Sc Hinks, Rekha Chaudhuri

PA1859  Development of a Xenopus-based assay for high-throughput evaluation of mucociliary flow
Maria Chatzifrangkeskou (Nicosia, Cyprus), Ioanna Antoniades, Andria Koullle, Panayiotis Koullis, Timothea Konstantinou, Panayiotis K Yiallouros, Paris Skourides

PA1860  Development of a high throughput primary human fibroblast-to-myofibroblast transition assay
Elisabeth Bäck (Molndal, Sweden), Mei Ding, Johan Jirholt, Jessica Reijer, Stefan Tångefjord

PA1861  Establishing the Conditionally Reprogrammed Cell Technology for precision medicine in PCD
Ruth Maria Urbaniat (Berlin, Germany), Anita Balázs, Marika Drescher, Kathrin Seidel, Alexander Rohrbach, Maria Daniltschenko, Aditi Kuppe, Tihomir Rubil, Simon Gräber, Julia Dürr, Stephanie Thee, Mehrak Yoosefi, Jobst Röhmel, Marcus A. Mall

PA1862  Proteomic profiling of air-liquid-interface (ALI)-cultured primary ciliary dyskinesia (PCD) nasal epithelia
Katie L. Horton (Eastleigh, United Kingdom), Janice L Coles, Claire L Jackson, Alistair Bailey, Paul J Skipp, David W Cleary, Raymond N Allan, Jane S Lucas

PA1863  PDE4B inhibitor BI101550 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

PA1864  IL-6 trans-signaling implicated in bronchial epithelial SERPIN B3/B4 mediated fibrogenesis and epithelial disruption in severe asthma
Chih-Chieh Tseng (Taipei City, Taiwan), Chun-Liang Chou, Han-Pin Kuo

PA1865  Investigating miRNA regulation of PTEN in Cystic Fibrosis using airway epithelial cells derived from patient specific iPSC
Irene Oglesby (Beaumont, Ireland), Arlene Glasgow, Catherine Greene, Killian Hurley

PA1866  Early immune development in the human fetal lung
L. Jia (Leiden, Netherlands), Nannan Guo, M. Fernanda Pascutti, Susana M. Chua De Sousa Lopes, Pieter S. Hiemstra, Jan Stolk, Frits Koning, Padmini P. S. J. Khedoe

PA1867  Characterisation of airway epithelial cells from survivors of very preterm birth reveal barrier defects at one year of age
Denby Evans (Nedlands, Australia), Samantha Mclean, Shannon Simpson, Anthony Kicic

PA1868  Highly selective furin inhibition as a therapeutic approach for chronic obstructive pulmonary disease
Lisa Douglas (Belfast, United Kingdom), James A Reihill, Tatjana Odriljin, S Lorraine Martin

PA1869  Targeting deubiquitinases for the treatment of COPD
Amy Hendren (Belfast, United Kingdom), James Reihill, Richard Wilkinson, Ian Lobb, Lorraine Martin

PS-5 in poster area  Session 200  16:00 - 17:30
Poster session: Sleep-disordered breathing in other respiratory diseases and nocturnal hypoventilation

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

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

Tag(s) : Clinical

Chairs : Chair to be confirmed
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<tr>
<th>Session Code</th>
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<tr>
<td>PA1870</td>
<td>Assessment of sleep quality in Chronic obstructive pulmonary disease patients with emphysema</td>
<td>Amal Chennoufi (Tunis, Tunisia), Moussa Chirine, Rouis Houda, Ghouari Asma, Khattab Annel, Khouaja Ibtihel, Mhiri Fatma, Bayahi Leila, Zehadeh Ines, Maalej Sonia</td>
</tr>
<tr>
<td>PA1871</td>
<td>Prevalence of sleep disorders and disturbances related risk factors among patients with Chronic Obstructive Pulmonary Disease: A systematic review.</td>
<td>Stephanie Palacios (Iloilo, Philippines), Glenford Refre, Patricio Palmes, Ronnie Samoro</td>
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<tr>
<td>PA1872</td>
<td>Association between preserved ratio impaired spirometry and indices of obstructive sleep apnea (OSA) severity</td>
<td>Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, Georgios Statikis, Konstantina Lyroni, Stilioka Viziriannaki, Georgios Pittidianakis, Nikolas Tzanakis, Sophia Schiza</td>
</tr>
<tr>
<td>PA1873</td>
<td>Smoking-induced disturbed sleep: A Distinct Sleep-Related Disorder - experience on 4347 patients</td>
<td>Athanasia Patakia (Thessaloniki, Greece), Ioanna Grigoriou, Paschalia Skalisti, Ioanna Papagiouvanni, Anastasia Michailidou, Konstantinos Charalambidis, Serafeim - Chrysovalantis Kotoulas, Konstantinos Porpodis, Dionysios Spyrouatos</td>
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<tr>
<td>PA1874</td>
<td>THE FORECAST OF THE COURSE OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH OBSTRUCTIVE-APNEA SYNDROME DURING SLEEP</td>
<td>Khayyirillo Rajabov (Tashkent, Uzbekistan), Irina Liverko</td>
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<td>PA1875</td>
<td>THE PHENOTYPES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH COMORBIDITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME.</td>
<td>Khayyirillo Rajabov (Tashkent, Uzbekistan), Irina Liverko</td>
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<tr>
<td>PA1876</td>
<td>Effect of CPAP treatment on serum 25(OH)D levels in patients with COPD-OSA overlap syndrome</td>
<td>Paschalis Steiropoulos (Alexandroupolis, Greece), Athanasious Voulgaris, Kosmas Archontogeorgis, Kosmas Bonelis, Michail Fanaridis, Sofia Schiza</td>
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<tr>
<td>PA1877</td>
<td>Epidemiology of obstructive sleep apnea in patients with severe asthma under treatment with biologics</td>
<td>Lorenzo Cirri (Chur, Switzerland), Thomas Rothe, Tsogyal Daniela Latshang</td>
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<tr>
<td>PA1878</td>
<td>Evaluation of sleep disordered breathing and related factors in primary ciliary dyskinesia patients</td>
<td>Nagehan Emiralioglu (Ankara, Turkey), Merve Begum Ozturk, Halime Buyukcagin, Ismail Guzelkas, Dilber Ademhan, Beste Ozsezen, Ebru Yalcin, Deniz Dogru, Nural Kiper, Ugur Ozcaklak</td>
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<tr>
<td>PA1879</td>
<td>Sleep disordered breathing and snoring in patients investigated for exercise induced laryngeal obstruction: A service evaluation</td>
<td>Keir E. J. Philip (London, United Kingdom), Zander Williams, Emil S Walsted, Julia Kelly, Alanna Hare, James H Hull</td>
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<td>PA1880</td>
<td>Determinants of Nocturnal Hypoxaemia in Patients with Chronic Tromboembolic Pulmonary Hypertension and Sleep-Related Breathing Disorder</td>
<td>Caner Cinar (İstanbul, Turkey), Sehzaz Olgun Yildizeli, Baran Balcan, Bedrettin Yildizeli, Builent Mutlu, Uğur Özçelik</td>
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<tr>
<td>PA1881</td>
<td>Changes in the sleep-disordered breathing from the acute to the stable phase of pulmonary embolism. The ESAET study</td>
<td>Grace Jacqueline Oscullo Yepez (Valencia, Spain), Alberto Garcia Ortega, Eva Mañas Baena, Thais Beauverthuy Levy, Jose Gomez Ollivas, Aldara Garcia Sanchez, Irene Cano Pumarega, Amina Bekki, Marina Inglés Azorin, Juan Jose Jimenez Aguillella, Alba Cervero Rubio, Pilar Calvillo Batlles, Sergio Mompean Rodriguez, David Jimenez Castro, Miguel Angel Martinez Garcia</td>
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<tr>
<td>PA1882</td>
<td>Impact of intermittent and sustained nocturnal hypoxic burden on the postoperative course in patients after anatomical lung resection</td>
<td>Svenja Schröder (Regensburg, Germany), Clemens Wiest, Christian Schulz, Hans-Stefan Hofmann, Michael Ried, Michael Arzt</td>
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<tr>
<td>PA1883</td>
<td>Are the anthropometric and arterial blood gas parameters predictors of obesity-hypoventilation syndrome in an obese population</td>
<td>Mohamed Bougrida (Constantine, Algeria), Fouzia Abdelouahab, Bouchra Benzouid, Mahdi Martani, Mohamed Kheireddine Bourahli</td>
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<td>PA1884</td>
<td>Bicarbonate as predictor of sleep-related hypoventilation</td>
<td>Joël Julien Herzig (Zürich, Switzerland), Sanja Pocrnjic, Esther Irene Schwarz</td>
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<tr>
<td>PA1885</td>
<td>Prevalence and predictors of obesity hypoventilation syndrome in patients with obstructive sleep apnea in a tertiary care institution in South India</td>
<td>Barney Isaac (Vellore (Tamil Nadu), India), Chithra Alexander, Roselin John, Anitha Barney, Balamugesh Thangakunnam, Devasahayam Christopher</td>
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<td>PA1886</td>
<td>Starting home mechanical ventilation associates with reduced rate of hospitalization in people with obesity hypoventilation syndrome: The population-based DISCOVERY study</td>
<td>Jonas Einarsson (Lund, Sweden), Andreas Palm, Zainab Ahmadi, Magnus Ekström</td>
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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 Mамалетzi, Evangelia Koudi

Hypoventilation in patients with Prader-Willi syndrome across the pediatric age
Catherine Chen (Bron, France), Julia Ioan, Marine Thieux, Marc Nicolin, Patricia Franco, Laurianne Coutier

Definition of diaphragmatic sleep disordered breathing in Duchenne Muscular Dystrophy
Federica Trucco (Genova (GE), Italy), Matthew Davies, Alberto Zambon, Deborah Ridout, Francois Abel, Francesco Muntoni

**Poster session: Real-life studies in asthma: all the way to clinical remission**

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

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

**Tag(s):** Clinical

**Chairs:** Celeste Michala Porsbjerg (Copenhagen, Denmark), Andrea Portacci (Taranto, Italy)

**PA1890**
**Treatment Patterns of Patients Who Initiate Biologics for Severe Asthma Across USA, Japan, & Europe**
Joshua Harvey (Upper Providence, United States), Samantha N Valliant, Shiyuan Zhang, George Mu, Kelechi Emeanuru, Karina Brunini Pitta Palhares, Marine Andre, Takeo Ishii, Takeo Suzuki, Hideaki Kunishige, Rafael Alfonso-Cristancho

**PA1891**
**Clinical remission following biologic initiation in severe asthma: results of the International Severe Asthma Registry (ISAR)**
Tham T. Le (Clarksburg, United States), Ghislaine Scelo, Trung N Tran, Malin Fagerås, Neil Martin, Andrew N. Menzies-Gow, Wang Eileen, Michael Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Luis Perez-De-Llano, Borja G Cosio, Piotr Kuna, Diahn-Warg Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Riyad Al-Lehebi, João A. Fonseca, Chin Kook Rhee, Jorge Máspero, Mariko Koh Siuye, George C Christoff, Todor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price

**PA1892**
**Characteristics associated with clinical remission in patients with severe asthma who initiate biologics**
Luis Pérez De Llano (Lugo, Spain), Ghislaine Scelo, Trung N Tran, Tham L. Le, Neil Martin, Malin Fagerås, Andrew N. Menzies-Gow, Eileen Wang, Michael E. Wechsler, Giorgio Walter Canonica, Enrico Heffler, Liam G. Heaney, David J. Jackson, Paul E. Pfeffer, John Busby, Celeste M. Porsbjerg, Mark Hew, Matthew Peters, Peter G. Gibson, Mona Al-Ahmad, Celine Bergeron, Mohsen Sadatsafavi, Borja G. Cosio, Piotr Kuna, Diahn-Warr Perng, Takashi Iwanaga, Carlos A. Torres-Duque, Désirée Larenas-Linnemann, Bassam Mahboub, Nikolaos G. Papadopoulos, Riyad Al-Lehebi, João A. Fonseca, Chin Kook Rhee, Jorge Máspero, Mariko Koh Siuye Koh, George C. Christoff, Todor A. Popov, Justin Kwiatek, Victoria Carter, Celine Goh, Lakmini Bulathsinhala, Aaron Beastall, David Price

**PA1893**
**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

**PA1894**
**Real world biologic treatment response in severe asthma: an analysis of the International Severe Asthma Registry (ISAR)**

**PA1895**
**Patients' knowledge, perspectives and attitudes towards treatment goals and clinical remission in severe asthma**
Shiyuan Zhang (Collegeville, United States), Alejandro Raimondi, Olivia Fulton, Vanessa M Mcdonald, Ratko Djukanovic, Matthew Masoli, Peter Howarth, Waseem Ahmed, Tom Keeley, Josh Barazzetti-Scott, Rafael Alfonso

**PA1896**
**Long-term weight changes after starting anti-interleukin-5/5Ra biologies in severe asthma**
Lianne ten Have (Leeuwarden, Netherlands), Edith Visser, Jacob K. Sont, Kim De Jong, Johannes A. Kroes, Anneke Ten Brinke
**PA1897**

Real-world associations between outcomes and biomarkers in severe asthma patients treated with biologics


**PA1898**

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

**PA1899**

An evaluation of factors associated with asthma remission for individuals on biologic therapy

Sarah Rhoads (Denver, United States), Michael Wechsler

**PA1900**

Real-world experience of mepolizumab in severe eosinophilic asthma – five-year outcomes

Amy Nuttall (Liverpool, United Kingdom), Fred Fyles, Hannah Joplin, Hassan Burhan, Laura Watkins

**PA1901**

Real-world patient-level cost-effectiveness analysis of omalizumab in patients with severe allergic asthma

Ipek Kivrlicm Oğuzülgen (Ankara, Turkey), Deniz Tugay, Mehmet Top, Ömür Aydn, Sevim Babbek, Ebru Damadoğlu, Ferda Öner Erkekol, İlkay Koca Kalkan, A. Fuat Kalyoncu, Gül Karakaya, Haluk Türktas, Ivo Abraham

**PA1902**

Real-life data of ten years with omalizumab treatment

Gökçen Öмерoğlu Şimşek (Izmir, Turkey), Damla Gündüz Karayazı, Can Sevinç

**PA1903**

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 Brideaux, Peter Jandus, Rene Fiechter, Jörg D. Leuppi, Thomas Hauser, Nikolay Pavlov, Thomas cherer, Michael Huber, Andrea Azzola, Andreas Piceyk, Thomas Rothe

**PA1904**

Attitudes and experiences of patients and healthcare practitioners towards asthma medication prescription and adherence in the UK

Xiubin Zhang (London, United Kingdom), Erin Tomaszewski, Mina Khezrian, Tim Harrison, Jennifer K Quint

**PA1905**

Multicentric real life experience of mepolizumab in bronchiectasis concomitant to severe asthma.

Juan Luis Garcia Rivero (Argoños (Cantabria), Spain), David Bañas Conejero

**PA1906**

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-Warrng Perng, Shih-Lung Cheng, Rafael Alfonso, Dominique Milea

**PA1907**

Multi-country self-controlled study of exacerbation rates in severe asthma patients treated with mepolizumab: NEST interim analysis

Sevim Babbek (Ankara, Turkey), Patricia Fernandez, Bassam Mahboub, Riyad Omar Al-Lehebi, Venkata Nagarjuna Maturu, Diana Jimena Cano Rosales, Claudia Soares, Debora Dos Santos, Gabriela Abreu, Patricia Menezes, Ronan Valladares, Juliana Queiroz, Alejandro Raimondi, Fayaz Aziz, Maria Laucho-Contreras, Emilio Pizzichini, Saeed Noibi

**PA1908**

Benralizumab effectiveness in severe eosinophilic asthma and co-presence of bronchiectasis: a “real-world” retrospective study.

Raffaele Campisi (Portopalo (SR), Italy), Santi Nolasco, Pietro Impellizzeri, Maria D'Amato, Corrado Pelaia, Andrea Portacci, Luisa Ricciardi, Giulia Scioscia, Nunzio Crimi, Girolamo Pelaia, Giovanna Elisiana Carpanzano, Claudia Crimi

**PA1909**

Real-life oral corticosteroid sparing effects of biologic treatment on eosinophilic asthma, five years of follow-up

Soran Peshbahar (Risskov, Denmark), Anne Sofie Bjerrum

**PS-7 in poster area**

**Session 202** 16:00 - 17:30

**Poster session: Chronic cough**

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

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

**Tag(s):** Clinical

**Chairs:** Alyn Hugh Morice (Cottageham, United Kingdom), Federico Lavorini (Firenze (FI), Italy)
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<tr>
<td>PA1910</td>
<td>Oscillometry parameters in chronic cough</td>
<td>Hazim Abozid (Wien, Austria), Chiara Veneroni, Sylvia Hartl, Robab Breyer- Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Pasquale Pio Pompilio, Emiel Fm Wouters</td>
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<tr>
<td>PA1911</td>
<td>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</td>
<td>Lorcan McGarvey (Belfast, United Kingdom), Surinder S. Birring, Peter Dicpinigaitis, Jaclyn Smith, Vivek N. Iyer, Sylvain Lanouette, Ronghua Yang, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli</td>
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<td>PA1912</td>
<td>Chronic cough characteristics in CANVAS</td>
<td>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</td>
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<td>PA1913</td>
<td>Relationship between measures of type II inflammation and patient reported cough severity and quality of life outcomes in patients with chronic cough</td>
<td>Nermin Diab (Toronto, Canada), Danica Brister, Mustafaa 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</td>
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<td>PA1914</td>
<td>Airway inflammation, bronchial hyperresponsiveness, and anti-asthma therapy responses in cough variant asthma and classic asthma with FEV1%≥80% predicted</td>
<td>Xue Zhang (Shanghai, China), Chengjian Lv, Huijuan Hao, Jingwang Lin, Xue Tian, Min Zhang</td>
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<td>PA1915</td>
<td>Refractory and unexplained chronic cough: burden and cost of care</td>
<td>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</td>
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<tr>
<td>PA1916</td>
<td>Association between central obesity and chronic cough in the general adult population.</td>
<td>Johnmary T. Arinze (Rotterdam, Netherlands), Katia M.C. Verhamme, Fernando Rivadeneira, Guy Brusselle</td>
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<td>PA1917</td>
<td>Blood eosinophils in a cohort of Chronic Cough Patients consecutively admitted to a dedicated outpatient clinic: a retrospective case note analysis</td>
<td>Carlo Barbeta (Ferrara (FE), Italy), Anna Del Colle, Marco Caminati, Rachele Vaia, Gianenrico Senna, Donato Lacedonia, Umberto Zuccon, Rossana Roncato</td>
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<tr>
<td>PA1918</td>
<td>A novel questionnaire describing sensations and triggers associated with refractory and unexplained chronic cough</td>
<td>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</td>
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<tr>
<td>PA1919</td>
<td>Patient global impression of severity in chronic cough; repeatability and responsiveness</td>
<td>Katie Rhatigan (Denmark Hill, United Kingdom), Barnaby Hirons, Harini Kesavan, Miten Sudra, Candice Ebelthite, Richard Turner, Caroline Jolley, James Hull, Surinder Birring, Peter Cho</td>
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<td>PA1920</td>
<td>Correlation of visual analogue scale with Leicester Cough questionnaire in patients with refractory/unexplained chronic cough</td>
<td>Christian Domingo Ribas (Sabadell (Barcelona, Spain), Ignacio Dávila, Santiago Quirce, Astrid Crespo-Lessmann, Miguel Díaz-Palacios, Antonio Pereira-Vega, Maria Luisa Nieto, Juan Luis Rodríguez-Hermosa, Luis Cea-Calvo, Pilar López-Cotarelo, Marta Sanchez Jareño, Luis Puente-Maestu</td>
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<td>PA1921</td>
<td>The long-term prognosis of chronic cough</td>
<td>Jinkyeong Park (Seoul, Republic of Korea), Yee Hyung Kim, Myung Jae Park, Cheon Woong Choi</td>
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<td>PA1922</td>
<td>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)</td>
<td>Imran Satia (Hamilton, Canada), Alexandra Mayhew, Nazmul Sohel, Om Kurmi, Kieran Killian, Paul O'Byrne, Parminder Raina</td>
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<td>PA1923</td>
<td>Chronic cough in sarcoidosis</td>
<td>Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Richard Turner, Caroline Jolley, Katherine Myall, Surinder S Birring, Pete S P Cho</td>
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<td>PA1924</td>
<td>Stress urinary incontinence in women with chronic cough: impact on cough-related quality of life</td>
<td>Luis Puente Maestu (Madrid, Spain), Santiago Quirce, Igancio Dávila, Ebymar Arismendi, Eva Martinez-Moragón, Javier Sola-Martinez, Alfredo De Diego, Francisco Javier González-Cardall, Luis Cea-Calvo, Cristina Rivas-Pardinas, Marta Sanchez Jareño, Christian Domingo-Ribas</td>
</tr>
<tr>
<td>PA1925</td>
<td>Relationship between subjective cough outcomes and activity impairment in patients with chronic cough</td>
<td>Mustafaa Wahab (Hamilton, Canada), Chaquoan (Cherry) Xu, Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia</td>
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Serum Ige levels and blood eosinophils as potential Th2 inflammation biomarkers and target to address Chronic Cough: a retrospective analysis
Carlo Barbeta (Ferrara (FE), Italy), Anna Del Colle, Umberto Zuccon, Alessio De Massimi, Vittorio Giacomarria, Maria Elisabetta Conte, Alberto Fantin, Marco Contoli, Alberto Papi, Antonella Serafini, Gelindo Cappellato, Marco Caminati, Gianenrico Senna, Rachele Vaia, Francesco Saverio Serino, Rossana Roncato

Work productivity and activity impairment among chronic cough patients after a guideline-based treatment in the McMaster Cough Clinic
Mustafaa Wahab (Hamilton, Canada), Chaoqun (Cherry) Xu, Elena Kum, Nermin Diab, Danica Brister, Caitlin 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 Ingí Emilsson (Uppsala, Sweden), Carl Andersson, Henrik Johansson, Thomas Schön

Blood eosinophil count and its determinants in a Chinese population-based cohort
Mei Yang (Chengdu, China), Shijie Tang, Yongchun Shen, Lei Chen, Fuqiang Wen

Surface receptor expression on circulating and airway eosinophils after inhaled allergen challenge
Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminsky, Imran Satia, Nermin Diab, Danica Brister, Jennifer Wattie, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau

Eosinophil phenotypes in circulation and airways of asthmatics after inhaled allergen challenge.
Christiane Whetstone (Hamilton, Canada), John-Paul Oliveria, Karen Howie, Caitlin Obminsky, Imran Satia, Nermin Diab, Danica Brister, Jennifer Wattie, Lesley Wiltshire, Paul O'Byrne, Roma Sehmi, Gail Gauvreau

Association of complement pathway activation with severe eosinophilic asthma in the C-BIOPRED asthma cohort
QingLing Zhang (Guangzhou, China), Cong Dong, Zhen An Deng, Chang Xing Ou, Xin Hua Fu, Chang Zheng Wang, Hua Hao Shen, Mei Ling Jhi, Nkoubert Pryseley Assam, Wei Jiang, Ali Versi, Kian Fan Chung, Qing Ling Zhang, Nan Shan Zhong

Sputum type 2 markers could predict remission in severe asthma after anti interleukin-5.
Catherine Moermans (Liège, Belgium), Chloè Brion, Grégoire Bock, Sophie Graff, Sara Gerday, Halehsadat Nekoei, Christophe Poulet, Noémie Bricmont, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Florence Schleich

Expression of serum periostin and impaired quality of life in asthma patients with and without allergic rhinosinusitis
Somruetai Matupumanon (Bangkok, Thailand), Theerasak Kawamatawong, Puthapoom Lumijkatase

Late Breaking Abstract - Urinary nickel level is associated with blood immunoglobulin E among asthma patients.
Chung Shu Lee (Taipei, Taiwan), Chih Hao Chang, Li Chung Chiu

Clinical asthma phenotypes linked to sputum proteome from Chinese C-BIOPRED cohort
QingLing Zhang (Guangzhou, China), Chaxing Ou, Zhenan Deng, Lingna Xue, Jian Kang, Yunhui Zhang, Mao Huang, Jinfú Xu, Kewu Huang, Qiāng Li, Kian Fan Chung, Nanshan Zhong, Jiāxing Xie

Plasma IL-36 subtype family levels impact on clinical manifestations of asthma
Yuki Hoshino (Sattama, Japan), Tomoyouki Soma, Tatsuhiko Uno, Reina Ishii, Kazuki Katayama, Hidetoshi Iemura, Erika Naitou, Takahiro Uchida, Shun Sinomiya, Sachiko Miyachi, Yoshitaka Uchida, Kazuyuki Nakagome, Hidetoshi Nakamura, Makoto Nagata

Possible multiple signalling of MMP-10 in atopic asthma
Nikolaos Tsolakis (Uppsala, Sweden), Andrei Malinovschi, Jörgen Syk, Kjell Alving

12-LOXs-12(s)-HETE-GPR31 signaling axis mediates immune homeostasis in allergic asthma
Peiyian Zheng (Guangzhou (Guangdong), China), Baoqing Sun
PA1941 Investigating allergen-induced acute lung inflammation in asthmatic individuals using breath biopsies
Agnieszka Smolinska (Maastricht, Netherlands), Imran Satia, Christiane E Whetstone, Maral Ranjbar, Mustafaa Wahab, Ahmed Tawfike, Samuel Thompson, Atashia Gonsalves, Natalie Tett, Ben Taylor, Rune Kragsgaer, Rory Stallard, Howard Kartstein, Daniel Mead, Lara Pocock, Billy Boyle, Max Allsworth, Gail Gauvreau

PA1942 Effects of Sex Hormones on Asthma Control in Postmenopause
Samia Aissani (Algiers, Algeria), Houria Haouichat, Ali Zitouni

PA1943 Sensitization to Staphylococcus aureus toxins in Severe Asthma. The Belgian IgE (BEIgE) study.
Florence Schleich (Liège, Belgium), Eleonore Maury, Claus Bachert, Mieke Jansen, Sandra Gurdain, Jan Van Schoor

PA1944 Developing and validating clinical models to identify candidates for allergic rhinitis pre-exposure prophylaxis
Wenting Luo (Guangzhou (Guangdong), China)

PA1945 Associations between sputum cell counts and healthcare use across Ontario patients with asthma or COPD
Kimball Zhang (Toronto, Canada), Teresa To, Sylvia Laucks, Melanie Kjarsgaard, Jingqin Zhu, Emilie Terebessy, Parameswaran Nair

PA1946 Type 2 inflammation signature using sputum transcriptomics is associated with COPD clinical characteristics
Yuqiong Yang (Guangzhou, China), Junhao Yang, Fengyan Wang, Weijuan Shi, Martin Stampfl, Jeffrey Curtis, Bradley Drummond, Nanshan Zhong, Wang Zhang, Zhenyu Liang, Rongchang Chen

PA1947 Proteasome function as a biomarker for severe COPD endotypes
Claudia Flexeder (Neuherberg, Germany), Ilona Kammerl, Stefan Karrasch, Frauke Pedersen, Claus Vogelmeier, Jürgen Behr, Sandra Söhler, Henrik Watz, Annette Peters, Holger Schulz, Silke Meiners

PA1948 ADAM17 sheddase substrates in airway and blood samples of COPD, asthma, and healthy subjects
Carin Larsson (Rydsgård, Sweden), Nicole Van Der Burg, Jaro Ankerst, Leif Bjerner, Ellen Tufvesson

PA1949 A practical approach to handling missing sputum samples in airways disease research
Laurits Frosing (Copenhagen V, Denmark), Susanne Hansen, Morten Hvidtfeldt, Asger Sverrild, Celeste Porsbjerg

PS-9 in poster area  Session 204  16:00 - 17:30
Poster session: Pulmonary function, lung function trajectories and other respiratory conditions

Disease(s) : Airway diseases, Thoracic oncology
Method(s) : Epidemiology, Public health, Pulmonary function testing, General respiratory patient care, Cell and molecular biology, Imaging
Tag(s) : Translational
Chairs : Arne Drews (Grimma, Germany), Chair to be confirmed

PA1950 Epigenetic features in newborns associated with preadolescence lung function and asthma acquisition during adolescence
Mohammad Nahian Ferdous Abrar (Memphis, United States), Hongmei Zhang, Wilfried Joachim Jurgen Karmaus, John Holloway, Hasan Arshad, Yu Jiang

PA1951 Lung function trajectories and their associations with comorbidity markers.
Sigrid Anna Aalberg Vikjord (TRONDHEIM, Norway), James P Allinson, Arnulf Langhammer, Lowie Etienne Vanfleteren

PA1952 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

PA1953 Type-2 inflammation is associated with accelerated lung function decline in individuals with chronic airway disease from the general population
Yunus Colak (Espergærde, Denmark), Shoaib Afzal, Jacob L. Marott, Børge G. Nordestgaard, Peter Lange

PA1954 Advanced glycation end products (AGEs) in relation to COPD and lung function: the Rotterdam Study
Tianqi Lu (Rotterdam, Netherlands), Lies Lahousse, Sara Wijnant, Jinliuan Chen, Guy Brusselle, Mandy Van Hoek, M. Carola Zillikens

PA1955 Clinical relevance of lung function trajectory clusters in middle-aged and older adults
Xander Bertels (Gent, Belgium), James Ross, Rosanna Fan, Michael Cho, Guy Brusselle, Lies Lahousse

PA1956 Impact of low lung function in atherosclerotic cardiovascular disease
Shoaib Afzal (Herlev, Denmark), Børge G. Nordestgaard, Yunus Colak
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 Stenfor, Eva Rönnmark

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 Carrozz, Giovanni Vige

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 war in Ukraine and the spread of tuberculosis in Europe
Ihor Semianiv (Chernivtsi, Ukraine), Liliia Todoriko, Olena Pidverbetska, Inga Yeremenchuk, Yana Torderika

Current etiologies of hemoptysis in a tuberculosis-endemic country.
Mereim Mjid, Khadija Euchi, Moune Aouini, Yacine Ouahchi, Sana Cheikhrouhou, Sonia Toujani, Abir Hedhli, Besma Dhahri

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, Wiam El Khattabi, Hicham Afif

Diagnostic difficulties in tuberculous 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 Malbas (Novi Sad, Republic of Serbia), Tomi Kovacevic, Ana Milenkovic, Bojan Zaric, Goran Stojanovic, Darijo Bokan

17:30-19:00
INDUSTRY EVENING SYMPOSIUM
SEE PAGE 1

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
SEE PAGE 1
### Amber 1+2  
**Session 217**  
**08:00 - 10:20**

**Skills workshop: SW4 Interpretation of cardiopulmonary exercise tests**  
**Tips and pitfalls in cardiopulmonary exercise testing assessment**

**Aims:** to identify typical patterns of responses to cardiopulmonary exercise testing and demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s):** Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases  
**Method(s):** Physiology, Pulmonary function testing, Pulmonary rehabilitation

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs:** Pierantonio Laveneziana (Paris, France)

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<td>08:00</td>
<td><strong>Introduction</strong></td>
<td>All Speakers</td>
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<tr>
<td>08:00</td>
<td><strong>Relationship between oxygen uptake and work rate</strong></td>
<td>Paolo Palange (Rome, Italy)</td>
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<td>08:00</td>
<td><strong>Anaerobic/lactate threshold</strong></td>
<td>William Stringer (Long Beach, United States)</td>
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<td>08:00</td>
<td><strong>Ventilatory efficiency</strong></td>
<td>J. Alberto Neder (Kingston (ON), Canada)</td>
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<td>08:00</td>
<td><strong>Breathing pattern and dynamic hyperinflation</strong></td>
<td>Michele Schaeffer (Leuven, Belgium)</td>
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### Amber 3+4  
**Session 218**  
**08:00 - 10:20**

**Skills workshop: SW7 Practicalities of spirometry and whole-body plethysmography**

**Aims:** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s):** Airway diseases, Paediatric respiratory diseases  
**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

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

**Chairs:** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

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<th>Time</th>
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<td>08:00</td>
<td><strong>Introduction</strong></td>
<td>All Speakers</td>
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<tr>
<td>08:00</td>
<td><strong>Performing spirometry</strong></td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
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<td>08:00</td>
<td><strong>Standardised static lung volume measurement using whole-body plethysmography</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
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<td>08:00</td>
<td><strong>Measurement of airway resistance and resistance-volume loops using whole-body pethysmography</strong></td>
<td>Mart N. van der Plas (Monster, Netherlands)</td>
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<td>08:00</td>
<td><strong>Reporting and interpretation of case studies</strong></td>
<td>Maximillian Thomas (, United Kingdom)</td>
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<td>PA2043</td>
<td>Predictors of pulmonary tuberculosis relapse</td>
<td>Selsabil Daboussi (Tunis, Tunisia), Améni Naaroura, Samira Mhamdi, Safa Marzouki, Houda Snoussi, Chiraz Aichouia, Zied Moetemri</td>
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<td>PA2044</td>
<td>Pseudotumor tuberculosis: a rare form</td>
<td>Sofia El hanafy (casablanca, Morocco)</td>
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<td>PA2045</td>
<td>Errors in the diagnosis of tuberculosis in children under the conditions of the COVID-19 pandemic.</td>
<td>Cristina Liscinscaia (Chisinau, Republic of Moldova), Stela Kulciţkaia, Constantin Iavorschi, Iulia Ghimisli</td>
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<td>PA2046</td>
<td>Mortality of tuberculosis patients due to associated diseases and other causes</td>
<td>Igor Ivanes (Chisinau, Republic of Moldova), Aurelia Ustian, Vasile Popa, Anastasia Ivanes</td>
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<td>PA2047</td>
<td>Mortality in tuberculosis</td>
<td>Fettal Nadia (Sidi Bel Abbes, Algeria), akram Benhaddad</td>
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<td>PA2048</td>
<td>Correlation between imaging in non-cystic fibrosis bronchiectasis and prognosis scores</td>
<td>Donia Jeridi (Ariana, Tunisia), Houda Rouis, Chirine Moussa, Chaima Turki, Oumaima Aggouni, Hana Dhisfallah, Ibtihel Khouaja, Ines Zendah, Sonia Maalej</td>
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<td>PA2049</td>
<td>COPD as a post-tuberculosis lung disease: multicenter retrospective cohort study</td>
<td>YEJIN LEE (SEOUL, Republic of Korea), Dong-Hyun Joo, Soom Sin, Hyerin Kang, Jin Hwa Song</td>
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<td>PA2051</td>
<td>Impact of tuberculosis on the evolution of pregnancy, delivery and perinatal outcomes</td>
<td>Igor Ivanes (Chisinau, Republic of Moldova), Ecaterina Evstrati, Stela Kulciţkaia, Anastasia Ivanes</td>
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<td>PA2052</td>
<td>Post-COVID-19 pulmonary complications in the chest clinic of Oran, Algeria</td>
<td>Abdelmajid Snouber (Oran, Algeria), Siham Benzait, Nesrine Azzi, Nesrine Bouchra Bourouis, Mustapha Benammar, Karima Boualem</td>
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<td>PA2053</td>
<td>Radiological pulmonary manifestations in patients with achalasia</td>
<td>Jelena Jankovic (Beograd, Republic of Serbia), Branislava Milenkovic, Zlatan Bojic, Nikola Colic</td>
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<td>PA2054</td>
<td>Retrospective observational study looking at inpatient burden of winter respiratory viral illness in a district general respiratory unit</td>
<td>Usman Zafar Kahara (Birmingham, United Kingdom), Gagandeep Aulakh, Abhimanu Lal, See Ling Tan</td>
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<td>PA2055</td>
<td>In-hospital mortality by different CURB type severity scores of community-acquired pneumonia</td>
<td>Hyonsoo Joo (Seoul, Republic of Korea), Mira Cho, Seohyun Kim, Yunhee Lee, Jun-Pyo Myong, Jae Jeong Shim, Tai Joon An, Hyoung Kyu Yoon</td>
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<td>PA2056</td>
<td>Prevalence of newly acquired conditions and impact on quality of life one year after hospital discharge for COVID-19</td>
<td>Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Wolloff, Archie Walters, Louise Wain, Chris Brightling, Michael Marks, Andrew Briggs</td>
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<td>PA2057</td>
<td>Phenotypes in ‘Long COVID’ presenting as ‘tsunami of multisystem syndrome’ of this decade: Is it really preventable or occurs as natural course of disease?</td>
<td>Shital Vishnu Patil (Latur (Maharashtra), India), Swati Shital Patil, Sham Toshniwal, Gajanan Gondhali, Rajesh Patil, Utreshvar Dhumal, Abhijit Acharya, Shubhangi Khule, Deepak Patil</td>
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<td>PA2058</td>
<td>Efferent therapy in complex treatment of patients with coronavirus associated pneumonia</td>
<td>Oksana Vilsaniuk (Vinnytsya, Ukraine), Yuriy Mostovoy</td>
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<td>PA2059</td>
<td>90-Day outcomes in patients with severe COVID-19 treated with invasive mechanical ventilation.</td>
<td>Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Satoshi Tanaka, Yusuke Shinozaki, Junko Shibuya, Hajime Tsuruoka, Shin Matsuzawa, Hiromi Muraoaka, Atsuko Ishida, Hirotaka Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine</td>
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<td>PA2060</td>
<td>COVID-19 as endothelial dysfunction trigger</td>
<td>Nataliia Habshydze (Dnipro, Ukraine), Tetiana Pertseva, Lyudmyla Konopkina, Yuliia Hyba, Maria Krykhtina</td>
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Theranostic algorithm to prevent post-COVID-19 pulmonary fibrosis
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Cécile Duterme, Alain Roman, Hafid Dahma, Stephane Alard, Stephanie Andre, Dragos Barglazan, Audrey Chirumberro, Frederic Cotton

PS-10 in poster area
Poster session: Burden, determinants, and management of asthma

PA2061
Theranostic algorithm to prevent post-COVID-19 pulmonary fibrosis
Nathalie De Vos (Bruxelles, Belgium), Marie Bruyneel, Cécile Duterme, Alain Roman, Hafid Dahma, Stephane Alard, Stephanie Andre, Dragos Barglazan, Audrey Chirumberro, Frederic Cotton

PA2062
Characteristics of patients with asthma in China by blood eosinophil level
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), Ark Ye, Zhiliu Tang, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards

PA2063
World-wide variation in the proportion of patients eligible for asthma biologics: a systematic review
Freda Yang (London, United Kingdom), Justin D Salciccioli, Marcus Mclean, Chloe Bloom

PA2064
Uncontrolled asthma associates age-dependently with biomarkers and comorbidities in adult-onset asthma
Katja Warm (Rockneby, Sweden), Linniea Hedman, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Helena Backman

PA2065
Risk for asthma and allergic rhinitis depends on earliness and multiplicity of allergic sensitization, involved allergens, and allergen-specific IgE levels
Stephan Gabet (Lille, France), Fanny Rancière, Nathalie Seta, Isabelle Momas

PA2066
Association between asthma and allergic diseases and school absenteeism among Indian adolescents
Smriti Debnath (Khejurbagan, India), Prasun Haldar, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

PA2067
Association between allergy and asthma experience and awareness among adolescents: a structural equation modelling approach
Prasun Haldar (Kolkata, India), Smriti Debnath, Dwiptirtha Chattopadhyay, Judith Garcia-Aymerich, Isabella Annesi-Maesano, Paige Lacy, Saibal Moitra, Subhabrata Moitra

PA2068
In-hospital Mortality and Hospital outcomes Among Adults Hospitalized for Exacerbations of Asthma and COPD in Thailand (2017-2021): A population-based Study
Narongwit Nakwan (Songkhla, Thailand), Kanitrtha Suansan

PA2069
Causal risk factors for asthma in Mendelian randomization studies: A systematic review and meta-analysis
Heidi Mikkelsen (Køge, Denmark), Eskild M. Landt, Marianne Benn, Børge G. Nordestgaard, Morten Dahl

PA2070
Hospital admissions among asthmatic children in Tizi-Ouzou city before and during the COVID-19 pandemic
Salim Sadi (Tizi-Ouzou, Algeria), Idir Ramdani, Dihia Hadj-Said, Toufik Djerboua, Nabila Yata, Nadia Bensaadi, Belaïd Bouazza

PA2071
Role of circadian typology in health-related quality of life in asthma

PA2072
Obesity increases all-cause and cardiovascular mortality in adults with asthma
Helena Backman (Lulea, Sweden), Axel Sturesson, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Linnea Hedman

PA2073
Asthma and asthma-like symptoms as associated with endometriosis and menstrual pain
Sanjay Gyawali (Bergen, Norway), Marianne Lonebo, Ane Johansson, Eva Lindberg, Lars Modig, Vivi Schlünsen, Thorarinn Gislason, Cecile Svanes, Francisco Gomez Real

PA2074
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Yuhan Xing (Hong Kong, Hong Kong), Yingzhao Jin, Cui Guo, Lai Shan Tam, Dongze Wu

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Agreement between self-reported and registered age at asthma diagnosis
Elías Nurmi (Tampere, Finland), Iida Vähätalo, Pinja Ilmarinen, Heidi Andersén, Leena Tuomisto, Anssi Sovijärvi, Helena Backman, Lauri Lehtimäki, Linnea Hedman, Arnulf Langhammer, Bright Nwaru, Päivi Piirilä, Hannu Kankaanranta

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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
Long-term dupilumab effect on lung function in paediatric patients with uncontrolled asthma
Leonard Bacharier (Nashville, United States), Theresa W. Guilbert, Adnan Custovic, Arman Altincatal, Olivier Ledanois, Rebecca Gall, Harry Sacks, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe

A retrospective multi-center chart review study on the timely administration of systemic corticosteroids in children with moderate-to-severe asthma exacerbations

Factors associated with severe asthma exacerbation in children
Mohamed aymen Jebali (tunis, Tunisia), Sabrine Louhaichi, Synda Derouiche, Siwar Rejeb, Farah Garci, Houneida Ben Zekri, Jameel Ammar, Besma Hamdi, Agnes Hamzaoui

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Thomas Josifidis (Perth (WA), Australia), Ingrid Laing, Alphons Gwatimba, Joseph Ho, Eda Pui, Loanne Harrison, Rebecca Watkinson, Samuel Montgomery, Kevin Looi, Siew-Kim Khoo, Peter Le Souef, Yuliya Karpievitch, Stephen Stick, Anthony Kicic

Elevated Neutrophil-to-Lymphocyte ratio is associated with severe asthma exacerbation in children
Noga Arwas (Beer Sheva, Israel), Sharon Uzan Shvartzman, Aviv Goldbart, Romi Bar, Itay Hazan, Amir Horev, Inbal Golan Tripto

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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. Jansssen (Rotterdam, Netherlands), Wyts 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 (Rotterdam, Netherlands), Wyts van den Bosch, E.J. Ruijgrok, H.A.W.M. Tiddens

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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

Detecting pediatric breathing: How do CPAP/NIV devices work?
Emeline Fresnel (Bois-Guillaume, France), Meryl Vedrenne-Cloquet, Marius Lebret, Lucie Griffon, Brigitte Faouroux, 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-Wersbeek, Belgium), Xante Mentens, Janne Vanhees, Sophie Installé, Anse Van Ostaeyen, Kris Ides, Nathalie Joure, Kim Van Hoorenbeek, 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

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
Tag(s): Clinical
Chairs: Nicole Beydon (Paris, France), Chair to be confirmed

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| PA2105 | Paediatric long-term noninvasive respiratory support in children with central nervous system disorders: a French cross-sectional study.  
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| PA2106 | Long term continuous positive airway pressure and noninvasive ventilation in children with OSA-I and OSA-II in France  
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| PA2107 | Comparison of Demographic, Respiratory, and Polysomnography-Capnography Results of Patients with Duchenne Muscular Dystrophy  
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| PA2108 | Transition from tracheostomy to Non-Invasive Ventilation in children with Congenital Central Hypoventilation Syndrome  
Jenny Taylor (London, United Kingdom), Alice Crawshaw, Garry Rendle, Vasileios Patelis, Martin Samuels, Elaine Chan |
| PA2109 | Optical coherence tomography angiography evaluation of choriocapillaris and retinal vessel density in children with obstructive sleep apnea syndrome  
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| PA2110 | Oxidative stress in children with obstructive sleep apnea syndrome  
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| PA2111 | Hyperventilation provocation test in children: what is more frequent, symptoms or hypocarbia?  
Nicole Beydon (Paris, France), Corentin El Jammal, Houda Saleh-Guillo, Marc Koskas, Lúcia Maingot, Noria Medjahdi, Marie-Claude La Rocca |
| PA2112 | Applicability of the Global Lung Function Initiative (GLI)-2012 equations to Hong Kong Chinese children  
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| PA2113 | Impact of new Guidelines on the Quality of Spirometry in Paediatrics  
Carolina Arez Constant (Lisboa, Portugal), Ana M Silva, Ângela Drago, Andreia Descalço, Ângela Martins, Teresa Bandeira |
| PA2114 | Criteria For Bronchodilator Responsiveness Testing In Children. The Most Adequate Is…  
Carolina Arez Constant (Lisboa, Portugal), Andreia Descalço, Ângela Drago, Ângela Martins, Ana M Silva, Teresa Bandeira |
| PA2115 | Lung Clearance Index (LCI) is sensitive to CF lung disease and normal result is reassuring.  
Kenneth A. MacLeod (Edinburgh (Edinburgh), United Kingdom), Heather Dowie, Taylor Gilchrist, Kellie Moffat, Jody Forster, Don S Urquhart |
| PA2116 | Automated quality control for spirometry as a tool for faster and more objective results  
Xenia Bovermann (Bern, Switzerland), Léa Ho Dac, Marion Curdy, Nadine Meuwly, Carmen Streibel, Bettina Frauchiger, Philipp Latzin |
| PA2117 | In-vitro comparison of infant SF6-multiple-breath washout setups  
Marc-Alexander Oestreich (Bern, Switzerland), Robin Hämmi, Florian Wyler, Blaise Etter, Anne-Christianne Kentgens, Dominik Obrist, Philipp Latzin, Kathryn Ramsey, Sophie Yammine |
| PA2118 | Leg muscle function and exercise capacity in adolescents living with obesity  
Larry C. Lands (Montréal (QC), Canada), Juliano Colapelle, Julie St-Pierre, Julius Erdstein |
| PA2119 | A comparison of CPET protocol selection methods in a Leicestershire paediatric cohort  
Natalie Blyth (Nottingham, United Kingdom), Joe Madge, Prakash Patel, Molla Imaduddin Ahmed |
| PA2120 | Late Breaking Abstract - New aerosol based method detects enlarged distal airspaces in adolescents that were born preterm  
Jakob Löndahl (Lund, Sweden), Hugo Öhrneman, Frida Lindström, Cecilia Hagman, Madeleine Petersson Sjögren, Jenny Rissler, Per Wollmer, Ellen Tufvesson |
| PA2121 | Late Breaking Abstract - Pulmonary small and large vessel blood volume in severe bronchopulmonary dysplasia  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Merlijn Bonte, Joana Costa, Liesbeth Duijts, Patrick Muchmore, Charles Mussche, Irwin Reiss, Pierluigi Ciet |
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

**Tag(s):** Translational

**Chairs:** Emanuela Zannin (Milano (MI), Italy), Anna Lavizzari (Milano (MI), Italy)

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### Poster session: Cystic fibrosis in adults: a changing scene

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

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

**Tag(s):** Clinical

**Chairs:** Andrea Gramegna (Milano (MI), Italy), Maria Do Pilar Azevedo De Almeida Cardim (Lisboa, Portugal)

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Non tuberculous mycobacterial pulmonary disease: a single center experience analysis
Nicola Baio (Pavia, Italy), Simone Montini, Francesco Rocci Bertuccio, Lucrezia Pisani, Valentina Ferroni, Vittorio Chino, Vincenzo Sanci, Paolo Cosseta Reposi, Alessandro Cascina, Valentina Conio, Angelo Guido Corsico

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<td>Fabio Salii (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 Loré</td>
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<td>PA2179</td>
<td>Deaths from Tuberculosis: Differences between Tuberculosis-related and Non-tuberculosis-related Deaths</td>
<td>Yunjeong Jeong (Goyang-Si, Republic of Korea), Jae Seuk Park, Hyoung 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</td>
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Late Breaking Abstract - Predictive factors of microbiological negativization from Atypical Pulmonary Mycobacteriosis in a cohort from southeastern Italy
Vitaliano Nicola Quaranta (, Italy), Manuela Rollo, Viviana Turchiarelli, Vincenza Giorgio, Maria Grazia Tummolo, Ina Ali, Cristian Locoro, Francesca Montagnolo, Giuseppe Cassano, Irene Annamaria Di Pierro, Mariangela Tedone, Vito Liutino, Sonia Santamaria, Giuseppe Guida, Silvano Dragonieri, Andrea Portaccì, Giovanna Elisiana Carpagnano

Poster session: Fungal infections and infections in airway disease

PA2181 Identifying core domains of health-related quality of life in chronic pulmonary aspergillosis.
Dareen Marghlani (London, United Kingdom), Lisa Nwankwo, Darius Armstrong-James, Melody Ni, Anand Shah

PA2182 Accelerated evolution of azole resistant Aspergillus fumigatus by diesel particles
Valentina Huang (London, United Kingdom), Leah Daly, Kirstie Lucas, Kazuhiro Ito

PA2183 Accuracy of BAL galactomannan and Aspergillus-PCR in diagnosing chronic pulmonary aspergillosis
Animesh Ray (Kolkata (West Bengal), India), Mohit Chowdhury, Gaggandeep Singh, Sanjeev Sinha, Immaculata Xess, Naveet Wig

PA2184 A prospective study of the impact of a Fungal Multi-Disciplinary Team meeting on patient management at a Tertiary Referral Centre
Tanjila Khan (Harrow, United Kingdom), Nadiya Sultana, Karan Gour, Sarah Sheard, Laura Martin, Anan Ghazy, Joanna Peters, Richard Wilson, Renuka Panlamicawandar, Mark Gilchrist, Darius Armstrong-James, Meg Coleman, Lydia Finney

PA2185 MANAGEMENT OF ABPA WITH AZOLES AND STEROID THERAPY
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Stefano Carlo Zucchetti, Paola Faverio

PA2186 Fighting aspergillus using biocontrol bacteria
Niki Ubags (Epalinges, Switzerland), Aurélie Trompette, Apiha Shanmuganathan, Julie Pernot, Fabio Palmieri, Eric Bernasconi, Christophe Von Garnier, Janick Sticku, Nina Hobi, Pilar Junier, Angela Koutsokera

PA2187 Dry powder aerosol of amphotericin b for treatment of pulmonary fungal disease
Matthew Reed (Albuquerque, United States), Craig Davies-Cutting, David Revelli, Amr Hefnawy, Hugh Smyth, Daniel Moraga-Espinoza, Philip Kuehl, Matthew Fergusson

PA2188 Environmental Aspergillus fumigatus associates with COPD exacerbations
Pei Yee Tiew (Singapore, Singapore), Micheal Mac Aogain, Tavleen Kaur Jagg, Fransiskus Xaverius Ivan, Augustine Tee, Huiying Xu, Mariko Siyue Koh, Thun How Ong, John A. Abisheganaden, Stephen C. Schuster, Sanjay H. Chotirmall

PA2189 The impact of bacterial and fungal co-infections in patients with severe COVID – 19: a retrospective analysis
Pavel Yordanov (Varna, Bulgaria), Figen Mustafa, Vanya Kostadinova, Tanya Dobrevia, Nadezhda Ilieva, Velislava Tatsheva, Rositsa Krasteva, Konstantin Kapitanov, Pavlina Peneva, Darina Miteva, Valentina Dimitrova, Diana Petkova

PA2190 Retrospective review of fungal lung disease management, Brighton UK
Syra Dhillon (Wokingham, United Kingdom), Emma Rivera, Aoife Hendrick, Gillian Jones, Vanessa Kahr, Katharine Hurt

PA2191 Asthma and bronchial infection
Tarek Cherif (Ariana, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Azza Slim, Hafooua Daftouf, Fatma Tritar

PA2192 Impact of duration of inhaled antibiotic treatment in COPD patients with chronic bronchial infection by Pseudomonas
Miguel Angel Leal Garcia (Terrassa, Spain), Roser Costa Solà, Andrea Hernandez Rizo, Annie Navarro Rolon, Cristina Esquinas Lopez, Jose Sanz Santos, Marc Miravitlles

PA2193 Mucus, microbiomes, and lung function decline in COPD

PA2194 Tolerance to inhaled antibiotic therapy in COPD patients and chronic bronchial infection by Pseudomonas
Miguel Angel Leal Garcia (Terrassa, Spain), Roser Costa Solà, Annie Navarro Rolon, Andrea Hernandez Rizo, Cristina Esquinas Lopez, Jose Sanz Santos, Marc Miravitlles
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<th>PA2195</th>
<th>Chronic obstructive pulmonary disease in Denmark: Nationwide yearly proportion of patients with at least one moderate or severe pneumonia from 1995 to 2018</th>
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<td>Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Lokke</td>
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<th>PA2196</th>
<th>Pseudomonas aeruginosa predicts exacerbation frequency in Severe Asthma</th>
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<td>Fransiskus Xaverius Ivan (Singapore, Singapore), Pei Yee Tiew*, Tavleen Kaur Jaggi, Kai Xian Thng, Pee Hwee Pang, Thun How Ong, John A Abisheganaden, Mariko Siyue Koh, Sanjay H Chotirmall</td>
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<th>PA2197</th>
<th>Impact of smoking in acute community acquired lung disease: severity and mortality</th>
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<tr>
<td>Hadhemi Rejeb (Sousse, Tunisia), SABRINE ELFIDHA, Nouha Guedri, Hanen Smadhi, Hajer Abdelghaffar, Hella Hassene, Dorra Greb, Ines Akrout, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche</td>
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<tr>
<th>PA2198</th>
<th>Late Breaking Abstract - Development of a Novel Scoring System to Predict Survival of Acute Invasive Fungal Rhinosinusitis Patients</th>
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<td>Minhae Park (Seoul, Republic of Korea), Hyo Yeol Kim</td>
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<th>PA2199</th>
<th>Late Breaking Abstract - The blood transcriptional response in ICU-acquired pneumonia</th>
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<td>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 Timmerber, Surbhi Malhotra-Kumar, Jan A. J. W. Kuytmans, Hessle Peters-Sengers, Tom Van Der Poll</td>
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<th>PA2200</th>
<th>Late Breaking Abstract - Flagellin as an adjunctive to antibiotic treatment of MDR-Klebsiella pneumonia in mice</th>
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<td>Christine C. A. van Linge (Amsterdam, Netherlands), Osool Chouchane, Jean-Claude Sirard, Wil H. F. Goessens, Alex F. De Vos, Tom Van Der Poll</td>
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**PS-17 in poster area**

**Session 227**

**08:00 - 09:30**

**Poster session: Translating lung cancer: mechanisms, mutations, and prediction**

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

**Method(s):** Cell and molecular biology, Surgery, Epidemiology, Pulmonary function testing, General respiratory patient care, Endoscopy and interventional pulmonology, Public health

**Tag(s):** Translational

**Chairs:** Andriani Charpidou (Athens, Greece), Daniela Xhemalaj (Tirana, Albania)

**PA2201**

*Cancer-related mutations in non-tumoral respiratory epithelium: long-term prognosis.*

Roberto Chalela Rengifo (Barcelona, Spain), Emanuel Carmona, Albert Sánchez-Font, Víctor Curull, Pedro Rocha, Diana Badenes, Raquel Longarón, Joaquín Gea, Ignacio Sánchez-Guerr, Beatriz Bellosillo

**PA2202**

*Prognostic impact of reactive oxygen species modulator 1 (Romol1) in resected EGFR-mutant lung adenocarcinoma*

Tae Woo Kim (Seoul, Republic of Korea), Myung Jae Park, Seung Hyeun Lee

**PA2203**

*Late Breaking Abstract - Factors affecting recurrence in early stage lung adenocarcinoma*

Fatma Canbay (Nicosa, Cyprus), Ayperi Merzi Öztürk, Sema Canbakan, Funda Demirau, Hakan Ertürk

**PA2204**

*IL-17A promotes tumorigenesis and upregulate PD-L1 expression in Non-small cell lung cancer*

Hua Liao (GuangZhou, China), Hangming Dong

**PA2205**

*Crosstalk between Metformin and angiogenesis in lung cancer model*

Jian-Long Wang (Taichung, Taiwan), Chuan-Mu Chen

**PA2206**

*Changes of lung microbiota composition in patients with non-small cell lung cancer*

Vytaitas Anakudavicius (Kaunas, Lithuania), Darja Nikitina, Rokas Lukosevicius, Jurita Skieceviciene, Juozas Kupcinskas, Skaidrius Miliauskas, Marius Zemaitis

**PA2207**

*Sphingolipid metabolism in the pathogenesis of advanced non-small lung cancer*

Lilla Búdi (Budapest, Hungary), Daniel Hammer, Rita Varga, Veronika Müller, Ádám Domonkos Tárnoki, Dávid Lásló Tárnoki, Martina Mézéri, Andras Bikov, Péter Horváth

**PA2208**

*Association of DNA repair gene O6-Methylguanine-DNA Methyltransferase (MGMT) expression with aberrant promoter methylation in Lung Cancer Progression*

Supriya Karpinath (Lucknow, India), Rajiv Garg, Mohammad Kaleem Ahmad, Anand Srivastava, Neelam Misra, Anurag Kumar Srivastava

**PA2209**

*Late Breaking Abstract - Higher radiation dose in chemoradiotherapy followed by immunotherapy with durvalumab in patients with stage III non-small cell lung cancer does not increase risk for pneumonitis.*

Felix Schragel (Wien, Austria), Melanie Matousek, Christoph Resl, Peter Ehrhalt, Klaus Hackner

**PA2210**

*Understanding BRAF mutation in non-small cell lung cancer patients*

Giulia Squarzon (Italy, Italy), Mariaenrica Tine, Davide Ortolan, Federica Pezzuto, Fiorella Calabrese
Next-generation sequencing in stage I-III vs stage IV non-small cell lung cancer
Miguel Trigueiro Rocha Barbosa (Viana do Castelo, Portugal), Joana Ribeiro, Raquel Paulinetti, Telma Sequeira, Paulo Mota, Cristina Albuquerque, Teresa Almodovar

Evaluation of PD-1 T lymphocytes in bronchoalveolar lavage in lung cancer compared to benign lung diseases
Barbara Hammer (Borstel, Germany), Christina Bal, Maximilian Gysan, Sonja Zehetmayer, Silvana Geleff, Andreas Zech, Markus Kramer, Seda Ayaysev, Marco Idzko, Mir Alireza Hoda, Daniela Gompelmann

Prognostic significance of the IASLC Pathology Committee grading system for lung adenocarcinoma among Filipino patients
Aprille Anne Octaviano (Quezon City, Philippines), Ma. Janeth Samson, Rex Michael Santiago

Spread through air spaces prognostic value in adenocarcinoma
Mara Daniela Silva Sousa (Vizela, Portugal), Mariana Gonzalez Ribeiro, Catarina Sousa, Helder Novais-Bastos, David Araujo, Gabriela Fernandes, Adriana Magalhaes, Andre Carvalho, Susana Guimarães, Conceição Souto Moura, Venceslau Hespanhol, Claudia Frettas

COMPARATIVE ANALYSIS ACCORDING TO ALPHA-1 ANTITRYPSIN GENOTYPE IN A COHORT OF PATIENTS WITH LUNG CANCER IN NORTHWEST SPAIN
Ramon Antonio Tubio Perez (Vigo, Pontevedra, Spain), Esmeralda Garcia Rodriguez, Ana Priegue Carrera, Maria Torres 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 Schilfart, Maeva Zyssman

Machine Learning Predicts metastasis of cT1 solid lung cancer
Li Yang (, China), Jing Huang, Jie Lan, Weiyi Li, Junhao Mu, Min Ao, Longke Ran

**PS-18 in poster area**  
Session 228  
08:00 - 09:30

**Poster session: Sarcoïdosis: disease mechanisms and pathogenesis**

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

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

**Tag(s):** Translational

**Chairs:** Marcel Veltkamp (De Meern, Netherlands), Natalia V. Rivera (Stockholm, Sweden)

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 Stachetzki, 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 Fabbri, Giusy Montuori, Marco Spalletti, Marta Abbritti, Paolo Cameli, Elena Bargagli

Late Breaking Abstract - HLA-DR immunopeptidomics on cells from bronchoalveolar lavage
Benedikt Zöhrer (Stockholm, Sweden), Akos Végvári, Johan Grunewald, 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, Luca 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), Elzbieta Rutkowska, Iwona Kwiecien, Piotr Miklus, Karina Jahnz-Röżyk, 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 Toloza-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 Leva (Moncalieri, Italy), Fabiana Giannoccaro, Maria Chernovsky, Francesca Bertolini, Vitina Carriero, Elisa Arrigo, Flavio Crosa, Paolo Carlo Ghio, Giuseppe Guida, Fabio Luigi Massimo Ricciardolo
PA2225  CD56dimCD16bright in peripheral blood, lung lymph node and bronchoalveolar lavage from sarcoidosis patients
Vittoria Ventura (Siena, Italy), Lucia Cassai, Elena Pordon, Sara Gangi, Laura Bergantini, Fabrizio Mezzasalma, Baglioni Stefano, Marta Abbritti, Elena Bargagli, Miriana D’Alessandro

PA2226  Retrospective analysis of BeLPT over 20 years
Louis Jouanjan (Freiburg, Germany), Charlott Terschluse, Gernot Zissel, Caroline Quartucci, Joachim Müller-Quernheim, Daiana Stolz, Björn Christian Frye

PA2227  Defining serum TNF-α concentration related endotype of sarcoidosis- A Polish real-life retrospective observational study
Anna Goljan Geremek (Warszawa, Poland), Piotr Radzinski, Elzbieta Puscinska, Urszula Demkow

PA2228  Change in bone mineral density in Danish patients with sarcoidosis
Jønne Møller (Skanderborg, Denmark), Lars Rejnamk, Elisabeth Bendstrup

PA2229  Evaluation of Xpert MTB/RIF Ultra in differentiating tuberculosis from sarcoidosis in patients with mediastinal lymphadenopathy
Sahajal Dhooria (Chandigarh, India), Kusum Sharma, Inderpaul Singh Sehgal, Ritesh Agarwal, Ashutosh Nath Aggarwal

PA2230  Is the internet a sufficient source of information on Sarcoidosis?
Michael Kreuter (Heidelberg, Germany), Katharina Buschulte, Philipp Höger, Claudia Ganter, Marlies Wijsenbeek, Nicolas Kahn, Katharina Kriegsmann, Finn Moritz Wilkens, Felix Herth

PA2231  An analysis of seasonality of sarcoidosis in Turkey
Emre Yanardag (Istanbul, Turkey), Muammer Bilir, Cuneyt Tetikkurt, Halil Yanardag

PA2232  PD-1/TIGIT axis: a novel therapeutic target?
Sara Gangi (Siena, Italy), Simona Luzzi, Laura Bergantini, Paolo Cameli, Elena Bargagli, Miriana D’Alessandro

PA2233  Late Breaking Abstract - Transcriptomic profiling identifies pro-fibrotic macrophages under ferroptotic stress in silicosis
Christian Aloe (Bundoora, Australia), Nicole Soo Leng Goh, Jonathan McQuater, Reshma Pujari, Rhoda Cameron, Julie Teague, Paris Papagianis, Simon Hall Apte, Brendan O'Sullivan, Ross Vlahos, Christine Faye Mcdonald, Ryan Francis Hoy, Daniel Charles Chambers, Tracy Li-Tsein Leong, Steven Bozinovski

PA2234  Late Breaking Abstract - Tetrandrine alleviates silica-induced pulmonary fibrosis through PI3K/AKT pathway
Qiao Ye (Beijing, China), Ruimin Ma, Xiaoxi Huang, Di Sun, Jingwei Wang, Changjiang Xue

PA2235  Late Breaking Abstract - Targeting acid sphingomyelin/ceramide signaling to alleviate silica-induced pulmonary fibrosis
Qiao Ye (Beijing, China), Ruimin Ma, Di Sun, Jingwei Wang, Xiaoxi Huang, Na Wu

PS-19 in poster area  Session 229  08:00 - 09:30
Poster session: Pulmonary embolism: acute and long-term management (2)

Disease(s): Pulmonary vascular diseases  Respiratory critical care  Interstitial lung diseases  Airway diseases
Method(s): Pulmonary rehabilitation  General respiratory patient care  Epidemiology  Imaging  Pulmonary function testing  Public health  Cell and molecular biology
Tag(s): Clinical, Translational

Chairs: Luis Jara-Palomares (Sevilla, Spain), Chair to be confirmed

PA2236  Exploring the efficacy of D-dimers in ruling out PE in high-risk individuals by Wells score
Cara M Gill (Dublin, Ireland), Helen O’Brien, Brian Gaffney, John Duignan, Marcus W Butler, Michael P Keane, Jonathan D Dodd, David J Murphy, Cormac Mc Cartthy, Alessandro N Franciosi

PA2237  An Australian study on factors impacting the length of stay for acute pulmonary embolism
Xinxin Hu (Sydney, Australia), Ming-Yan Teo, Mohan Nagarajah

PA2238  INPATIENT EXPERIENCE, PHYSICAL ACTIVITY, AND PERCEIVED DISABILITY AFTER A PULMONARY THROMBOEMBOLISM
Alejandro Heredia Ciuró (Granada, Spain), Ana Belén Gámiz Molina, Julia Raya-Benítez, Miguel Hernández-Serrano, Carmen Lidía Félix-Seguro, Javier Martín Núñez, Marie Carmen Valenza

PA2239  HANDGRIP STRENGTH AS PREDICTOR OF SYMPTOM SEVERITY AND HOSPITAL LENGTH OF STAY AFTER A PULMONARY THROMBOEMBOLISM
Alejandro Heredia Ciuró (Granada, Spain), Julia Raya-Benítez, Ana Belén Gámiz-Molina, Miguel Hernández-Serrano, Carmen Lidia Félix-Segura, Maria Granados-Santiago, Marie Carmen Valenza
PA2240 Prognostic value of Shock Index in patients with hemodynamic unstable pulmonary embolism
Ivana Vujovic (Novi Sad, Republic of Serbia), Dušanka Obradović, Stanislava Sovilj Gmizić, Maja Banjac, Nemanja Kuštrimović

PA2241 Protective effect of early anticoagulation for renal function in normotensive pulmonary embolism patients with right ventricular dysfunction
Dingyi Wang (Beijing, China), Guohui Fan, Xiaomao Xu, Qin Luo, Jun Wan, Peiran Yang, Zhenguozhai

PA2242 Prognostic Impact of Acute Kidney Injury Compared with Estimated Glomerular Filtration in Patients with Acute Pulmonary Embolism: Analysis from a Large Nationwide Registry
Dingyi Wang (Beijing, China), Yishan Li, Guohui Fan, Zhenguozhai, Chen Wang

PA2243 MicroRNAs expression before and after exercise in patients with persistent lung perfusion defects after pulmonary embolism
Remedios Otero Candelera (Sevilla, Spain), Berenice Brown Arreola, David Hervás Marin, Noelia Sola Idigora, Ezequiel Juan Saborido, María Dolores Nuñez Ollero, María Rosario Ruiz Serrano De La Espada, Cándido Fernández García, Teresa Elías Hernández, Luis Jara Palomares, Virginia Almadana Pacheco, Patricia Guerrero Zamora, Julita Oto Martinez, Pilar Medina Badenes, Pilar Cejudo Ramos, Verónica Sánchez Lopez

PA2244 Cardiopulmonary exercise test to identify pulmonary arterial hypertension in patients with symptoms after acute pulmonary thromboembolism
Jose Belda Ramirez (Valencia, Spain), Maria Luisa Nieto Cabrera, Paula Pla Rodriguez

PA2245 Competing risks analysis of recurrent venous thromboembolism (VTE) and bleeding on anticoagulation in patients with cancer-associated VTE
Francis Couturaud (Brest, France), David Simon, Raphael Le Mao, Leela Raj, Benjamin Espinas, Claire De Moreuil, Cécile Tromeur, Marie Guégan, Elise Poullahan, Emmanuelle Le Moigne, Karine Lacut, Christophe Leroyer, Isabelle Mahé, Emmanuel Nowak

PA2246 Circulating, extracellular vesicle-associated tissue factor in cancer patients with and without venous thromboembolism
Valentina Lami (Pisa, Italy), Roberta Pancani, Andrea Sbrana, Tommaso Neri, Chiara Boccaccio, Alessandro Cipriano, Mario Gattini, Alessandro Celi, Dario Nieri

PA2247 Risk factors for hospital outcomes in pulmonary embolism: a retrospective cohort study.
Giorgia Lüthi-Corridori (Liestal, Switzerland), Maria Boesing, Cédrine Kueng, Stéphanie Giezendanner, Munachimso Kizito Mbata, Anne Barbara Leuppi-Taetmeyer, Philipp Schuetz, Joerg Daniel Leuppi

PA2248 Particularities of Pulmonary embolism in young adults
Manel Khedhri (beja, Tunisia), Haifa Zaibi, Khouloud Chaabi, Emna Ben Jemia, Ella Nemsi, Jihein Ben Amar, Hichem Aouina

PA2249 Sex differences in venous thromboembolism risk and outcomes after COVID-19: a population-based retrospective cohort study
Jason Weatherald (Edmonton, Canada), Grace Y. Lam, Michael K. Stickland, Chuan Wen, Ron W. Damant, Maeve P. Smith, Lesley J. Soril, Zuying Zhang, Adam G. D'Souza, Elissa Rennert-May, Jenine Leal

PA2250 Covid-19 infection and chronic thromboembolic pulmonary disease: screening role of transthoracic echocardiography 2 years after hospitalization for interstitial pneumonia
Giuseppe Piaciocco (Monza (MI), Italy), Maria Tundo, Andrea Lombi, Chiara Milano, Martina Messa, Lorenzo Volpiano, Riccardo Ripamonti, Paola Alfieri, Giulia Pittalis, Fabrizio Luppi, Paola Faverio

PA2251 Cardiopulmonary complications after pulmonary thrombosis (PT) in COVID-19.
Joaquin Maria Martinez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suárez Castillo, Nuria Toledo Pons, Francisco de Borja García-Cosio Piqueras, Luisa Ramon Clar, Belén Nuñez Sánchez, Néstor Calvo Rado, Luminita Noje Noje, Jaime Pons Linares, Antonieta Ballestros Vizoso, Paula Argente Del Castillo Rodriguez, Daniel Morell Garcia, Luisa Martin Pena, Juan A Palmer Sancho, Jaueme Sauleda, Ernest Sala

PA2252 Pulmonary thrombosis (PT) in patients with covid-19 pneumonia: is it pulmonary thromboembolism or thrombosis in situ?
Carla Suárez Castillo (Palma de Mallorca, Spain), Nestor Calvo, Aina Millan, Nuria Toledo, Amanda Iglesias, Joaquin Maria Martinez, Luminida Prida, Luisa Ramon, Daniele Morell, Josep Miquel Baucé, Belen Nuñez, Jaume Sauleda, Ernest Saín-Llínas, Alberto Alonso

PA2253 Is acute pulmonary embolism a predictor of Post COVID-19 syndrome ?
Mariem Friha (Ariana, Tunisia), Hajer Raici, Mariem Chaabane, Sarrha Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch

PA2254 Diagnostic Performance of Clinical Probability Scores for Pulmonary Embolism in COVID
Haifa Zaibi (Tunis, Tunisia), Khouloud Chaabi, Hend Ouertani, Safia Othmani, Emna Ben Jemia, Jihein Ben Amar, Hana Hedhli, Hichem Aouina
| PA2255 | Late Breaking Abstract - Development and validation of machine learning model for automatically predicting acute pulmonary embolism in-hospital patients  
Ji-Eun Park (Suwon-si, Republic of Korea), Sangeul Hahn, Young Sam Kim, Hyun Ah Lee, Ji Won Park, Kyung Soo Chung |
| PA2256 | Tobacco-associated lung microangiopathy in symptomatic smokers without chronic obstructive pulmonary disease: A randomized, double-blinded and controlled clinical trial with Sildenafil.  
Paulo Müller (Campoo Grande (MS), Brazil), Tiago Augusto, Gisele Barbosa, Ricardo Gass, Danilo Berton, Leandro Goelzer |
| PA2257 | THE IMBALANCE BETWEEN SUBPOPULATIONS OF REGULATORY T (TREG) CELLS AT DIFFERENT STAGES OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)  
Francine Maria Almeida (São Paulo (SP), Brazil), Luan Henrique Vasconcelos Alves, Juliana Tiyaki Ito A, Luana Mendonça De Oliveira, Iolanda Lopes Calvo Tibério, Rafael Stelmach, Maria Notomi Sato, Fernanda Degobbi Tenorio Quirino dos Santos Lopes |
| PA2258 | Influence of lung hyperinflation on the acceleration of the aging of the oxygen transport chain in COPD patients  
Mohamed Bougirda (Constantine, Algeria), Mahdi Martani, Mohamed Kheireddine Bourahil, Naoueil Chibout, Helmi Bensaad |
| PA2259 | Amount of physical activity and pulmonary rehabilitation in patients with COPD  
Yu Liu (shanghai, China), Kai Zhang, Huaqi Guo, Cuixia Zheng |
| PA2260 | Lung physiology and 129Xe MRI data driven clustering of patients with asthma and/or COPD  
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Alberto Biancardi, Laurie Smith, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andy Swift, Dave Capener, Jody Bray, Jimmy Ball, Olly Rodgers, Demi Jakymelen, Ian Smith, Bilal Tahir, Madhewsia Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild |
| PA2261 | Exercise Oscillatory Breathing in patients with coexisting chronic obstructive pulmonary disease and Heart Failure  
Cássia Goulart (São Carlos, Brazil), Rebeca Nunes Silva, Piergiuseppe Agostoni, Frits Franssen, Jonathan Myers, Ross Arena, Audrey Borghi-Silva |
| PA2262 | Postural balance assessment in fallers individuals with COPD before and after physical effort  
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho Pinto, Rafael Stelmach, Rafaela Fagundes Xavier, Geraldo Lorenzi-Filho, Celso Ricardo Fernandes De Carvalho |
| PA2263 | Mortality in COPD Patients – Long-term Follow-up and Outcomes  
Roman Kalinov (Plovdiv, Bulgaria), Blagoi Marinov, Georgi Belev, Spas Kitov, Vladimir Hodzhev, Stefan Kostianev |
| PA2264 | Association of testosterone with lung function in patients with chronic obstructive lung disease  
Abir Hedhli Ep Cherni (tunis, Tunisia), Noureilhouda Khézami, Azza Slim, Hajtaeib Sonia, Khadija Echi, Sana Cheikhrouhou, Yassine Ouahchi, Sonia Toujani, Mariem Mjid, Besma Dhahari |
| PA2265 | Differences in cardiopulmonary exercise test outcomes between asthma-COPD overlap and COPD alone  
Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Jaycie Triandafilou, Wan Tan, Jean Bourbeau, Dennis Jensen |
| PA2266 | The impact of overweight on the quality of life of patients with COPD GOLD III  
Nadiia Kozh (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyky, Galyna Korch, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Iryna Makoida, Olga Melnyk-Sheremeta |
| PA2267 | Triaxial accelerometer-derived nighttime postural changes do not differ among smokers with and without COPD, and never smokers  
Alessandra Adami (Kingston, United States), Jakob Melone, Robert A. Calmelat, Richard Casaburi, Harry B. Rossiter |
| PA2268 | Gait differences between adults with COPD and healthy controls: systematic review and meta-analyses  
Joren Buekers (Barcelona, Spain), Laura Delgado Ortiz, Dimitrios Megaritis, Ashley Polhemus, Nikolaos Chynkiamis, Sara C. Butterly, Sofie Breuls, Sarah Koch, Elena Gimeno-Santos, Heleen Demeyer, Nick S. Hopkinson, Ioannis Vagiatisz, Thierry Troosters, Anja Frei, Judith Garcia-Aymerich |
Respiratory morbidity and exacerbations in patients with COPD diagnosed with the fixed ratio and the lower limit of normal
Aslı Görek Dilektaşlı (Bursa, Turkey), Busra Yigitliler, Nilüfer Ozturk, Funda Coskun, Esra Uzaslan, Mehmet Karadag

Differences between interpretation strategies of lung function tests in alpha-1 antitrypsin deficiency patients
Diana Sofia Moreira Sousa (Santo Tirso, Portugal), Diogo Ferreira, Ricardo Lima, Raquel Marçôa, Fernanda Rodrigues, Miguel Guimarães

Correlation between spirometry and diaphragmatic excursions by ultrasonography in COPD patients and developing a prediction formula of FEV1
Jacob Baby (rochester, United Kingdom), Anjaly Chandrakumar

Impact of simulated obstructive apneas on non-obstructive drive in COPD patients.
Jens Spiesshoefer (Aachen, Germany), Binaya Regmi, Faniry Ratsimba, Benedikt Jörn, Mehdi Senol, Oscar Gorol, Mustafa El feturi, 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 Pirotte, Janos Porszasz, Richard Casaburi, William Stringer, Harly Rossiter

Emphysema Severity Index (ESI): a novel spirometry-derived parameter in patients with COPD
Luca Paia (Firenze, Italy), Letizia Dal Bosco, Gretta Insalata, Matteo Paoletti, Mariaelena Occhipinti, Gianna Camiciotto, Massimo Pistolesi, Federico Lavorini

Assessment of five-year emphysema progression in the COPDGene study by Emphysema Severity Index (ESI), a novel spirometry-derived parameter
Massimo Pistolesi (Firenze (FI), Italy), Matteo Paoletti, Mariaelena Occhipinti, Federico Lavorini, Elizabeth A Regan, David A Lynch, Edwin K Silverman, James D Crapo

Deep learning enables non-invasive estimation of mean pulmonary arterial pressure from PREFUL-MRI
Maximilian Zubke (Hannover, Germany), Marius Wernz, Till F Kaireit, Tawfik Moher Alsady, Andreas Voskrebenz, Robin A Mueller, Karen M Olsson, Frank Wacker, Marius M Hoeper, Jens Vogel-Claussen

Correlation between ventilation heterogeneity and virtual scintigraphy through Functional Respiratory Imaging (FRI)
Hosein Sadafi (Kontich, Belgium), Maarten Lanclus, navid Monshi Tousi, Stijn Bonte, Jan De Backer

CT-based assessment of alveolar collapse using attenuation histograms in inspiration and expiration: Evaluation as a prognostic imaging marker in IPF patients
Sarah Scharm (Hannover, Germany), Cornelia Schaefer-Prokop, Anton Schreuder, Jonathan Ehmg, Jan Fuge, Frank Wacker, Antje Prasse, Hoen-Oh Shin

PCD-AID: artificial intelligence diagnosis of primary ciliary dyskinesia
Matthieu Bottier (London, United Kingdom), Andreia Lucia Do Nascimento Pinto, Brit 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, Elrozy 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:
Jun Ikari (Chiba, Japan), Megumi Katsumata, Takuro Imamoto, Yuri Suzuki, Akira Nishi yama, Hajime Yokota, Yoshihito Ozawa, Eiko Suzuki, Naoko Kawata, Seiichiro Sakao, Koichiro Tatsuni, Takuji Suzuki
The comparison of quantitative CT features of COPD and pre-COPD: results from a real-life study
Selin Ercan (Gothenburg, Sweden), Aylin Ozgen Alpaydin, Ali Canturk, Emre Ruhat Avci, Salihah Selin Ozuygur Ermis, Gozde Tokatli, Gökçen Omeroglu Simsek, Pınar 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 Svemningsen, Parameswaran Nair, Terence Ho, Andrew Hahn, Sean Fain, Eric A. Hoffman, Guilhem J. Collier, Jim M. Wild, Robert Thornom, 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, Elrozy 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, Sanghyun 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, Fábrizio Soares, Marcus Barreto Conte

Effect of benralizumab on small airway dysfunction using functional respiratory imaging in patients with severe eosinophilic asthma
Lennart Comens (Maastricht, Netherlands), Mieke Crutsen, Wendel Dierckx, Sami Simons, Martijn Spruit, Bita Hajian

Imaging of human airways by endoscope-compatible dynamic microscopic optical coherence tomography
Mario Pieper (Lübeck, Germany), Cornelia Holzhausen, Hinnerk Schulz-Hildebrandt, Martin Ahrens, Klaus Rabe, Heike Biller, Mustafa Abdo, David Ellebrecht, Sönke Von Weihe, Christoph Fraune, Stefan Steurer, Gereon Hüttmann, Peter König

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
Ronan Hearne (Dublin, Ireland), Katie Noonan, Brian Gaffney, Brian Sheehy, Niall Mcveigh, Yasuhiro Sekimoto, Ali Ataya, Nishant Gupta, Francis Mccormack, Raphaël Borie, Francesco Bonella, David Murphy, Kathleen Curran, Cormac Mccarthy

Utilising computer vision artificial intelligence to identify defects in airway ciliary motility and mucociliary clearance
Mathieu Borrut (London, United Kingdom), Andreia Lucia Do Nascimento Pinto, Emily Howieson, Britt J Van Akker, Oliver Hamilton, Ioannis Katramados, Jane Davies, Amelia Shoemark, Claire Hogg, Thomas Burgooyne

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 Zvavanhwe, 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

Neurofilament light in predicting clinical outcomes in critically III COVID-19 patients.
Patrick Smeele (Amsterdam, Netherlands)
**PA2297**  
Phenotyping of Pulmonary Oedema in COVID-19 ARDS  
Job Schippers (Amsterdam, Netherlands), Leila Atmowiharjo, Lieue Bos, Harm Jan Bogaard, Jurjan Aman

**PA2298**  
ROX index on 3rd day as a best predictor of treatment failure in severe COVID-19 patients  
Luca Novelli (Bergamo, Italy), Stefano Centanni, Fabrizio Luppi, Stefano Aliberti, Paola Rogliani, Claudio Micheletto, Marco Contoli, Alessandro Sanduzzi Zamparelli, Federico Raimondi, Simone Pappacena, Luca Maldandrino, Giorgio Lorini, Greta Carioli, Fabiano Di Marco

**PA2299**  
Prognostic value of respiratory compliance course on mortality in COVID-19 patients with veno-venous ECMO  
Simon Valentin (Nancy, France), Mathieu Amalric, Guillaume Granier, Benjamin Pequignot, Christophe Guervilly, Kevin Duarte, Nicolas Girerd, Bruno Levy, Paul Dunand, Matthieu Koszutski, Hadrien Roze, Antoine Kimmoun

**PA2300**  
Impact of the COVID-19 Epidemic on Healthcare Utilization and Death Among Critically Ill Patients  
Hye Jin Jang (Seoul, Republic of Korea), Soyul Han, Sungho Won, Bora Lee, Young Sam Kim

**PA2301**  
Previous physical activity level and the functional and physical performance at ICU discharge in COVID-19 patients: an observational study  
Carolina Fu (São Paulo (SP), Brazil), Danilo Prereira Dos Santos, Leda Tomiko Yamada Da Silveira, Heloisa Francelin, Debora Stripari Schujmann Nogueira

**PA2302**  
Aging predictive factors for oxygenation response and mortality in COVID-19 and acute respiratory distress syndrome (ARDS) patients exposed to prone position: A multicenter cohort study  
Marieta Cabral Amaral Cunha (São Paulo, Brazil), Adriana C Lunardi, Jociane Schardong, Natiele C Righi, Guadalupe N Sant’Anna, Larissa P Isensee, Rafaela F Xavier, Jose E Pompeu, Ranata M Weigert, Darlan L Matte, Rozana A Cardoso, Ana C V Abras, Antonio M V Silva, Camila C Dorneles, Roberta W Werle, Ana C Starke, Rodrigo D M Plentz, Juliana C Ferreira, Celso R F Carvalho

**PA2303**  
Impact of COVID-19 and MRAB infection on mortality in ICU  
Bogun kho (Gwangju, Republic of Korea), Hong-Joon Shin

**PA2304**  
The Influence of respiratory mechanics on the outcome of hospitalization of obese patients admitted to the Covid-19 ICU  
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Larissa Perossi, Jéssica Perossi, Daniele Oliveira Dos Santos, Anibal Basile Filho

**PA2305**  
Comparison of pulse versus conventional steroid treatment for hospitalized COVID-19 patients  
Paolo Cameli (Siena (SI), Italy), Tommaso Pianigiani, Marco Guerrieri, Valerio Alonzi, Gaia Fabbri, Elena Pordon, Maddalena Messina, Vittoria Ventura, Sara Croce, Martina Meocci, Beatrice Pere, Felice Perillo, Fabrizio Mezzasalma, Behar Cekorja, Elena Bargagli

**PA2306**  
Determining influences on ventilatory decision-making in COVID-19 ARDS  
Kenki Matsumoto (London, United Kingdom), Hannah Malcolm, William Thomson, Magda Osman, Zudin Puthucheary, John Prowle, Timothy Stephens

**PA2307**  
The utility of lung ultrasound in COVID-19 pneumonia in the intensive care unit in real life settings  
Dimitrios Tournapanakis (Athens, Greece), Anna Kyriakoudi, Evangelia Akoumi, Eleni Apostolakou, Iliana Ioannidou, Evangelos Kaimakamis, Evangelos Kaniaris, Paschalina Kontou, Magdalini Kyriakopoulou, Efthathia Potamianou, Charalampos Psarologakis, Vasiliki Soulountsi, Nektaria Xiouchaki, Antonia Koutsooukou, Konstantinos Pontikis

**PA2308**  
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

**PA2309**  
Role of JAK-inhibitors in management of Long COVID-19 syndrome: A Case-Control Study  
Lokesh Kumar Lalwani (Alwar, India), Pawan Kumar Singh, Vinod Sharma, Dhruva Chaudhry

**PA2310**  
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, Laura Pisani, Tommaso Tonetti, Paolo Palange

**PA2311**  
In Taiwan increasing ARDS Severity by Berlin Definition Reflects Overall Illness Severity  
Chang Yujen (Taichung City, Taiwan)

**PA2312**  
ICU admission for COVID-19 patients: is it safe?  
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

**PA2313**  
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
PA2314  Changes in patient profile with COVID19 admitted to IRCU  
Pau Cruzado Boix (Castelldefels, Spain), Cristina Bellver Asperilla, Yolanda Ruiz Albert, Ester Cuevas Sales, Ana Córdoba Izquierdo, Salud Santos Pérez, Mercè Gasa Galmes

PA2315  Risk factors and effect on mortality of superinfections in a newly established COVID-19 respiratory sub-intensive care unit at University Hospital in Rome  
ALESSANDRA IACOVELLI (Bellegra, Italy), Alessandra Oliva, Guido Siccardi, Angela Tramontano, Daniela Pellegrino, Angelo Petroiani, Claudio Maria Mastroianni, Mario Venditti, Paolo Palange

PS-4 in poster area  
Session 233  08:00 - 09:30  
Poster session: New mechanistic insights into acute and chronic epithelial lung disorders

Disease(s): Respiratory critical care, Airway diseases
Method(s): Cell and molecular biology, Epidemiology, General respiratory patient care, Physiology, Respiratory intensive care
Tag(s): Translational

Chairs: Abilash Ravi (Leiden, Netherlands), Nicole van der Burg (Lund, Sweden)

PA2316  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

PA2317  The link between the Gln27Glu polymorphism of the β2-adrenoceptor gene and the severity of the asthma course  
Vladyslava Kachkovska (Sumy, Ukraine), Anna Kovchun, Lyudmyla Prystupa

PA2318  The X and Y of inflammation, fibrosis and cell death in asthma  
Karosham (Diren) Reddy (Glebe, Australia), Dikai Xenaki, Senani Rathanyake, Sobia Idrees, Fia Boedijono, Matthew Padula, Maarten Van Den Berge, Alen Faiz, Brian Oliver

PA2319  Differential miRNA expression could identify responders to biologic therapy in severe uncontrolled asthma  
Amanda Iglesias Coma (Palma, Spain), Hanaa Shafiek, Josep Muncunill, Aarne Fleischer, Josep Luis Valera, Meritxell López, Rocio Martinez, Aina Martin, Laura Canaves, Lluç Riera, Mar Mosteiro, Inés Escribano, Luis Pérez De Llano, Borja G Cosío

PA2320  MEG3 SNP variants are associated with the risk of asthma  
Kuo-Liang Chiu (Taichung, Taiwan), Wen-Shin Chang, Chia-Wen Tsai, Mei-Chin Meng, Te-Chun Hsia, Da-Tian Bau

PA2321  IL18 as a severity locus for COVID-19  
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Diego Ferrer, María Sebastián Mora-Gil, Pilar Alonso-Lecue, Sandra Tello-Mena, Beatriz Abascal-Bolado, Sheila Izquierdo, Juan Jose Ruiz-Cubillan, Carlos Armiñanzas, Ricardo Blanco, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

PA2322  Evaluation of TGF-β isoforms based on selected clinical parameters in asthmatic patients.  
Marcelina Koćwin (Lodz, Poland), Mateusz Jonakowski, Alicja Majos, Janusz Szemraj, Piotr Kuna, Michal Panek

PA2323  T-cell immune dysfunction of severe COVID-19 in asthma defined by single-cell RNA sequencing  
Youlim Kim (Seoul, Republic of Korea), Mira Cho, Hyun Lee, Sang Hoon Lee, Siyoung Lee, Minjun Choi, Byeongchan Lee, Seong Yong Lim, Kwang Ha Yoo

PA2324  MicroRNA-197-3p attenuates house dust mite-induced inflammation by targeting NDP52 mitophagy receptor and Interleukin 13 in human bronchial epithelial cells  
Vahid Arabkari (SE-405 30, Sweden), Lina Rönnebjerg, Madeleine Rådinger

PA2325  Transcriptomic characterization of type 2 innate lymphoid cells from asthma patients in response to prostaglandin D2 metabolites  
Christina Gress (Hannover, Germany), Jens M. Hohlfeld, Meike Müller

PA2326  A plasma microRNA panel strengthens the early prediction of ICU mortality: A multicenter COVID-19 study  
Manel Perez-Pons (Lleida, Spain), Ivan D Benitez, Marta Molinero, Nadia García-Mateo, Alicia Ortega, Tamara Postigo, María C. García-Hidalgo, Thalia Belmonte, Carlos Rodríguez-Muñoz, Jessica González, Gerard Torres, Clara Gort-Paniello, Anna Moncusí-Moix, Ángel Estella, Luis Tamayo Lomas, Amalia Martínez De La Gándara, Lorenzo Socías, Yhivian Peñasco, Maria Del Carmen De La Torre, Elena Bustamante-Munguira, Elena Gallego Curto, Ignacio Martínez Varela, Maria Cruz Martin Delgado, Pablo Vidal-Cortés, Juan López Messa, Felipe Pérez-Garcia, Jesus Caballero, José M. Añón, Ana Loza-Vázquez, Nieves Carbonell, Judith Marin-Corral, Ruth Noemí Jorge García, Carmen Barberá, Adrián Ceccato, Laia Fernández-Barat, Ricard Ferrer, Dario García-Gasulla, Jose Angel Lorente-Balanza, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Jesus F. Bermejo-Martin, Antoni Torres, Ferran Barbé, David De Gonzalez-Calvo

PA2327  LSC - 2023 - “Clinical and immunological phenotypes” in ‘Long COVID’: The tsunami of multisystem syndrome of this decade!  
Shital Vishnu Patil (Latur (Maharashtra), India), Swati Patil, Sham Toshtiwal, 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, Nazanin Zounemat Kermani, Pankaj Bhavsar, Barbara Bodinier, Ian Adcock, Dragana Vuckovic, Marc Chadeau Hyam

Role of CD39 in COVID-19 severity: dysregulation of purinergic signaling and thromboinflammation

The influence of rs1799752 ACE indel variant and serum ACE enzyme activity in patients with severe COVID-19 and post-COVID-19
Ingrid Fricke-Galindo (Mexico City, Mexico), Ivette Buendia-Roldán, Daniel I Ponce-Aguilar, Gloria Pérez-Rubio, Leslie Chávez-Galán, Rafael De Jesús Hernández-Zenteno, Ramón Sañudo-Valencia

Endothelial progenitors exhibit a senescent and prothrombotic phenotype post COVID-19 disease
Koralia Paschalaki (London, United Kingdom), Daisy Gresham, Anand Shah, Peter Kelleher, Anna Reed, Aran Singanayagam, Vassilis Gorgoulis, Peter J. Barnes, Anna Randi, Charis Pericleous, Peter George

IFNL4 ss46941590 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), Emanuel Wyler, Julia M. Adler, Dylan Postmus, Sandro Andreotti, Luiz Gustavo Teixeira Alves, Julia Kazmierski, Fabian Pott, Thomas Hoefler, Christine Goiffet, Jakob Trimpert, Markus Scholz, Martin Wittenrath, Holger Kirsten, Geraldine Nouailles

Understanding the extracellular immunoproteasome in ARDS
Michael C. McKelvey (Cullybackey, United Kingdom), Cecilia M. O'Kane, Daniel F. McAuley, Sinead Weldon, Clifford C. Taggart

Epithelial to mesenchymal transition (EMT) changes in patients with non-small cell lung cancer (NSCLC)
Wenyong Lu (Newnham, Australia), Collin Chia, Josie Larby, Greg Haug, Ashutosh Hardikar, Gurpreeet Kaur Singhara, Tillie L. Hackett, Iain Robertson, Mathew Suji Eapen, Sukhwinder Singh Sohal

Proteomic analysis in idiopathic pulmonary fibrosis with presence of anti-modified protein antibodies
Dimitrios Kalafatis (Stockholm, Sweden), Vijay Joshua, Monika Hansson, Linda Matsson-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 Nieri

Usefulness of RE-LYMP and AS-LYMP parameter in diagnosis of COVID-19 and sarcoidosis patients.
Elżbieta Rutkowska (Warsaw, Poland), Agata Raniszewska, Iwona Kwiecień, Karina Jahnz- 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 Crichton, Holly R Keir, Merete Long, Morven Shuttleworth, Erin Cant, Miguel Barbosa, Anthony De Soyza, Katerina Dimakou, Michal Shteinberg, Arietta Spinou, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhar, Charles Haworth, Josje Altenburg, Francesco Blasi, Tobias Welte, Oriol Sibilia, Stefano Aliberti, Amelia Shoemark, James D Chalmers
| PA2341 | Assessment of humoral immune function in chronic obstructive pulmonary disease (COPD) patients | Zil Patel (Ottawa, Canada), Shawn Aaron, Vanessa Luk, William Cameron, Sunita Mulpuru, Juthaporn Cowan |
| PA2342 | Proteinase 3 as a marker of clinical severity in bronchiectasis: Data from the EMBARC-BRIDGE study | Emma Johnson (Puisley, Kent, United Kingdom), Megan L Crichton, Holly R Keir, Merete Long, Morven Shuttleworth, Erin Cant, Anthony De Soyza, Katerina Dimakou, Michal Shteinberg, Arietta Spinou, Felix Ringshausen, Natalie Lorent, Pieter Goeminne, Michael Loebinger, Sanjay Chotirmall, Raja Dhur, Charles Haworth, Josie Altenburg, Francesco Blasi, Tobias Welte, Oriol Sibilia, Stefano Aliberti, Amelia Shoemark, James D Chalmers |
| PA2343 | Sphingolipids contribute to sex-specific differences in COPD pathologies | Elisabetta Granato (Naples, Italy), Ida Cerqua, Giuseppina Rea, Fiorentina Roviezzo, Francesca Polverino |
| PA2344 | Plasma inflammatory proteins and transcriptome profiles of neutrophils in COPD patients with PiMM and PiZZ alpha-1-antitrypsin treated or non-treated with augmentation therapy | Urszula Lechowicz (Warsaw, Poland), Aneta Zdral, Adriana Rozy, Adam Szpechcinski, Beatriz Martinez-Delgado, Beata Olejnicky, Sabina Janciauskiene, Joanna Chorostowska-Wynimko |
| PA2345 | Collagen Remodelling in COPD: A new paradigm | Alex Chia Wei Kong (SOUTHAMPTON, United Kingdom), Tom Havelock, Cosma Mirella Spalluto, Ashley Heinson, Graham Belfield, Maria Belvisi, Damla Etal, Daniel Muthas, Lisa Oberg, Adam Platt, Karl Staples, Kristoffer Ostridge, Tom Wilkinson |
| PA2346 | TGFB1, pSmad-2/3, Smad-7, and beta-catenin are augmented in IPF pulmonary arteries: potential role in driving endothelial to mesenchymal transition (EndMT) | Wenying Lu (Newnham, Australia), Archana Vijay Gaikwad, Collin Chia, Josie Larby, Greg Haug, Surajit Dey, Prem Bhattarai, Jade Jaffar, Glen Westall, Gurpreet Kaur Singhera, Tillie L. Hackett, Mathew Suji Eapen, Sukhwinder Singh Sohal |
| PA2347 | Biomarkers of autoimmune processes in COPD. | Gulchekhra Tashmetova (Tashkent, Uzbekistan), Irina Liverko |
| PA2348 | Characterization of the immunophenotype of circulating neutrophils in bronchiectasis | Evangelia Koukaki (SALAMINA, Greece), Efthymia Theofoi, Nikolaos Paschalidis, Georgina Xanthou, Nikoletta Rovina |
| PA2349 | The association of the expression of programmed cell death ligand 1 (PD-L1) in dendritic cells (DCs) and its subtypes with chronic obstructive pulmonary disease (COPD) phenotypes | Kuan-Yuan Chen (New Taipei City, Taiwan), Kang-Yun Lee, Po-Hao Feng |
| PA2350 | Immunohistochemical analysis in biopsies from patients with COPD. | Marcos Páramo Pérez (Ciudad de México, Mexico), Robinson Robles Hernández |
| PA2351 | Piezo expression and function in airway smooth muscle in chronic obstructive pulmonary disease. | Nataliya Migulina (Groningen, Netherlands), Theo Borghuis, Ben Roos, Wim Timens, Christina Pabelick, Corry-Anke Brandsma, Janette Burgess, Y.S. Prakash |
| PA2352 | Distinct Lung miRNAs Are Associated with the Control of Cell Proliferation in NSCLC and COPD | Renata Esposito (Caserta, Italy), Davida Mirra, Giuseppe Spaziano, Francesca Polverino, Bruno D’Agostino |
| PA2353 | Comprehensive analysis of bronchoalveolar lavage fluid by validating ELISA and MSD systems for 22 biomarkers | Saskia Carstensen (Hannover, Germany), Jens M. Hohlfeld, Meike Müller |
| PA2354 | Extensive biomarker analysis in a European cohort study of patients suffering from COVID-19: a perspective from the DRAGON consortium | Julien Guiot (Liège, Belgium), Marie Ernst, Nathalie Maes, Monique Henket, Anna Peired, Benoît Ernst, Sara Tomassetti, Etienne Cavalier |
| PA2355 | A plasma biomarker of neutrophilic activity correlates with COPD severity | Mugdha M. Joglekar (Groningen, Netherlands), Jannie M. B. Sand, Diana J. Leeming, Frank Klont, Russell P. Bowler, Barbro N. Melgert, Simon D. Pouwels, Janette K. Burgess |

PS-6 in poster area  
Session 235  
08:00 - 09:30  
Poster session: Translational approaches in fibrotic lung diseases: from bench to bedside  
Disease(s): Interstitial lung diseases, Airway diseases  
Method(s): Cell and molecular biology, Imaging, Physiology  
Tag(s): Translational  
Chairs: Isis Enlil Fernandez (München, Germany), Carlos Esteban Machahua Huamani (Bern, Switzerland)
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, Takuji Suzuki

Succinate aggravates pulmonary fibrosis through the succinate/SUCNR1 axis.
Rishi Rajesh (Graz, Austria), Reham Atallah, Ilse Lanz, Wolfgang Platzer, Stefano Angiari, Leigh Marsh, Thomas Bärnthaler, Akos Heinemann

Lower proportion of collagen type XIV in lung tissue of patients with Idiopathic Pulmonary Fibrosis (IPF)
Mehmet Nizamoglu (Groningen (GR), Netherlands), Maunick Lefin Koloko Ngassie, Rhode A. Meuleman, Martin Banchero, Theo Borghuis, Wim Timens, Martijn C. 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), Hui Chen, Brian Oliver

Sigma-1 receptor agonist mitigates bleomycin-induced pulmonary fibrosis in mice
Adam Hosszu (Budapest, Hungary), Dora Bianka Balogh, Akos Roland Toth, Kata Cseko, Judit Hodrea, Zsuzsanna Helyes, Attilla 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, Annemiek Snoeckx, Annelies Janssens, Senada Koljenovic, Paul Van Schil, Veronique Verplancke, Johanna Kwakkel-Van-Erp, Hanne Voet, Therese Lapperre, Jeroen Hendriks

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

Role of apoptosis signal-regulating kinase-1 (ASK1) in the development of pulmonary fibrosis
Martina Korfei (Gießen, Germany), Julie Antoine, Azam Mohammadi, Stefan Hadzic, Ingrid Henneke, Poornima Mahavadi, Ekaterina Krauss, Clemens Ruppert, Werner Seeger, Andreas Guenther

Loss of cofilin 1 in the airway epithelium of COPD causes mitochondrial dysfunction
Venkataramana Siddhaie (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 (AAATD)
Georgina Farago (Barcelona, Spain), Gerard Orriols, Alexa Núñez, Cristina Esquinas, Galo Granados, Pablo Gabriel-Medina, Cristina Aljama, Miriam Barrecheguren, Francisco Rodríguez-Frias, Marc Miravitlles

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

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

Rembert Koczulla (Germany), Berktaan Akyildiz, Charlotte Suppli Ulrik, Detlef Nachtigall, Richard Russell, Valentina Bogoevska, Wolfgang Pohl, Tanja Borucki, Maurice-Dominique Martini, Christian Gessner

Change in treatment adherence after three months of treatment with extrafine formulation single-inhaler triple therapy in patients with asthma: the TriMaximize study

Frederik Trinkmann (Heidelberg, Germany), Berktaan 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), Berktaan Akyildiz, Valentina Bogoevska, Richard Russell, Detlef Nachtigall, Wolfgang Pohl, Charlotte Suppli Ulrik, Andreas Wendt, Christian Gessner

Impact of extrafine formulation single-inhaler triple therapy on lung function after three months of treatment in patients with asthma: the TriMaximize study

Christian Gessner (Leipzig, Germany), Berktaan Akyildiz, Richard Russell, Detlef Nachtigall, Charlotte Suppli Ulrik, Valentina Bogoevska, Wolfgang Pohl, Björn Licht, Carl-Peter Criée

Are people with airways disease aware of the environmental impact of inhalers?

Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Taheaera Ali, Rachael Ehiikioya, 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, Massinissa Benyagoub, Halima Chati, Aicha Djad], Hassiba Benferhat, Mounir Ould Setti

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 Valent, 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
De Jaysaproba Kadari (Liverpool, United Kingdom), Katie Fitzsimmons, Elaine Gossage, Sarah Sibley, Denis Wat, David Barber, Emma Rickards, Samantha Hayes

The trascendence of capsule transparency in dry powder inhalation devices in the treatment of COPD.
Rocio Reinoso Arija (Sevilla, Spain), Rosario Ruiz-Serrano De La Espada, Maria Dolores Nuñez Ollero, Laura Carrasco Hernandez, Maria Esther Quintana Gallego, Jose Luis López-Campos Bodineau

Towards minimizing carbon footprint of triple fixed dose MDIs for severe asthmatic patients: relative lung bioavailability and total systemic exposure of a high dose formulation of BDP/FF/GB with novel propellant
François Rony (Bois-Colombes, France), Frédéric Vanhoutte, Arnaud Valent, 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 Joksaitie, Robert P. Wood, Akiko Mizukami, Lucinda J Camidge, Alexandrocs 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

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 Agusti

Neglecting the neglected: Tobacco cessation support is ‘essential’ for the management of asthma and COPD
Dilek Karadogun (Rize, Turkey), Ilknur Kayal, Merve Yumrukuş Şenel, Esin Bilgin Konyalıhatipoğlu, Tahsin Gökhan Telatar, Metin Akgün

Burden of obstructive airways diseases (OADs) in 618 post-pulmonary TB patients across India.
Raja Dhar (Kolkata (West Bengal), India), Virendra Singh, Malay Sarkar, Arti Shah, Devsahayam J Christopher, Girija Nair, Arpan Shah, Sonali Trivedi, Suryakant Tripathi, Babaji Ghwade, Aleemuddin N. M, Saurabh Karmakar, Srivinivas Rajgopala, Mohankumar Thékkinckattil, Rajesh Swarnakar, Arunakumari Badam, Kripesh Sarmah, Srikant Krishnurumthry, Suresh Anantra, J. Ram, Archana B, Zuber Ahmed, Sapna Madas, Priyanka Dhumal, 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 Elnimea (Leicester, United Kingdom), Hamish J C Mcauley, John R Hurst, Samantha Walker, Salman Siddiqui, Petr Novotny, Jeth K Quint, Paul Pfeffer, Aziz Sheikh, Jeremy S Brown, Manu Shankar-Hari, Carlos Echevarria, Rachael A Evans, Louise V Wain, Liam G Heaney, Anthony De Soyza, Chris E Brightling

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), Siis Dyrman Alsted, Esben Bolvig Mark, Rasmus Brath Christensen, Pernille Veiss-Pedersen, Henrik Højgaard Rasmussen, Jens Brøndom Frokjaer, Lasse Riis Østergaard, Ulla Moller Weinreich
Understanding COPD underdiagnosis in the post-COVID era
ELENA AVALOS PEREZ-URRIA (Madrid, Spain), María Rodrigo-García, Adrián Peláez, Laura Castellanos López, Alberto Martínez De Lara, Elena García Castillo, Tamara Alonso Pérez, Celeste Marcos, Rosa María Girón Moreno, Claudia Valenzuela, Julio Ancochea, Joan B Soriano

The impact of a multidisciplinary assessment on COPD hospitalisations
Finbarr Harnedy (Cork, Ireland), Jack Allen, Michele Cuddihy, Eimear Ward, Maeve Sorohan, Imran Sulaiman, Breda Cushen

Dynamic pulmonary hyperinflation induced by 6 and 12 minute walk tests in patients with COPD: a crossover study
Angelo Petroiani (Roma (RM), Italy), Silvia Magliulo, Marco Bezzio, Alessandra Iacovelli, Federica Olmati, Luigi Panza, Paolo Palange

Poor asthma control in schoolchildren may lead to lower lung function trajectory from childhood to early adulthood: A japanese cohort study
Shingo Tsuneyoshi (Chikushino-city, Japan), Takashi Kinoshita, Ryo Yano, Chiyo Matama, Jun Sasaki, Masanobu Matsuoka, Tomotaka Kawayama, Tomaoki Hoshino

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 Călărășu, Andreea Mihai, Costin-Teodor Streba

Evaluation of asthma control in Tunisia: Correlation between GINA guidelines and asthma control test
Chaïma Turki (ariana tunis, Tunisia), Houa Rouis, Chirine Moussa, Oumayma Aggouni, Donia Jeridi, Hana Dhifallah, Ibthil Khouaja, Ines Zendah, Sonia Maalej

Metabolic Syndrome in a COPD Population: Frequency and Significance
KHALED DEGHDEGH (Annaba, Algeria), Ouafa Guellati, Feriel Atoui, Randa Yakoubi, Fouad Khalloufi

Asthma with fixed airflow obstruction has comparable small airway dysfunction with asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon

Clinical characteristics of female patients with COPD: a multicenter cross-sectional CAP study in Japan
Tasuku Yamamoto (Ube, Japan), Keiji Oishi, Ryo Suetsuke, Syuichiro Ohata, Yoriiuki Murata, Yoshikazu Yamaji, Kenji Sakamoto, Maki Asami-Noyama, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

Analysis of the relationship between cardiovascular disease and the degree of control of chronic obstructive pulmonary disease (COPD) with the development of possible future adverse cardiovascular events.
Natalia González Florido (Málaga, Spain), Esperanza Doña, Ana Muñoz, Adolfo Domenech

COPD and tuberculosis: friends or foes?
NADA Boutbagha (Agadir, Morocco), Sofia Farhat, Hanane Ikrou, Younes Essaid, Abdelkarim Khannous, Aboubakr Imzil, Abdelmajid Ouillhib, Fatihia Bounoua, Khadija Aitnasser, Houssame Emnaceri, Oussama Halloumi, Houda Moubachir, Hind Serhan

Alpha- Antitrypsin Deficiency as a cystic lung disease
Aishath Fazleen (Southampton, United Kingdom), Ausami Abbas, Jonathan Dunbar, Benjamin Welham, Alex Kong, Tom Wilkinson

Prevalence and predictors of suboptimal PIFR in patients with COPD
Madhuri Batyala (Tirupati, India), Ashwini Chawhan, Lancelot Pinto, Bony Francis, Nisha Chandra Shekar, Dhara Thakrar
PA2415 Assessing health Effects of air pollution by non-invasive exhaled breath analysis – baseline characteristics of the ALERT study
Laila Truyen (Wilrijk, Belgium), Stijn Verresen, Eline Galle, Jan Van Meerbeeck, Roeland Samson, Thérèse Lapperre, Kevin Lamote

PA2416 A scoping review of co-creation practice in the development of non-pharmacological interventions for people with chronic obstructive pulmonary disease
Qingfan An (Umeå, Sweden), Marlene Sandlund, Danielle Agnello, Lauren Mccaffrey, Sebastien Chastin, Ragnberth Heldeday, Karin Wedell

Katiuska Herrnunli Liendo Martinez (Madrid, Spain), Stephany Ivonne Briones Alvarado, Crsitlhan Alonso Correa Gutierrez, Zichen Ji, Luis Puente Maestu, Javier De Miguel-Diez

PA2418 Cluster analysis applied to 142 Algerian patients with COPD
Karim KHENNOUNF (ALGIERS, Algeria), Abdelkarim Saadi, Souad Souilah, Yacine Benbetta, Samya Taright

PA2419 Clinical significance of symptoms in smokers with preserved pulmonary function: a cross-sectional study
Allabayergyen Myerymkhaan (Ulaanbaatar, Mongolia), Byambatseren Boldbaatar, Otgonjargal Gurragchaa, Amartuvshin Ganbold, Ichinnorov Dashtseren

PA2420 Analysis of the relation between tidal and forced spirometric curves
Rob Hagmeijer (Enschede, Netherlands), Rutger Hebbink, Judith Elshof, Marielke Duiverman, Peter Wijksra

PA2421 The effectiveness of monitoring adherence to regular inhaled corticosteroid alone or in combination with a long-acting β2-agonist using electronic methods: a narrative systematic review
Mohammed Almutairi (Birmingham, United Kingdom), John Marriott, Adel Mansur

PA2422 Guideline-modified asthma control test (GmACT): improving monitoring of disease control
Enrico Schiavi (Roma, Italy), Maria Parmigiani, Francesca Cefalonii, Cristina Boccabellla, Luca Richeldii, Matteo Bonini

PA2423 Changes in obstruction classification using different interpretation strategies
Martijn Cuijpers (Roermond, Netherlands), Monique Hardy, Herman Jan Pennings

PA2424 Lack of association between self-perceived social support and treatable traits in COPD patients with resident loved ones
Anna Stoustrup (Gandrup, Denmark), Daisy J.A. Janssen, Nienke Nakken, Emiel F.M Wouters, Ulla M Weinreich, Martijn A Spruit

PA2425 Defining restrictive spirometry and PRISm using LLN versus %pred: does it matter?
Caspar Schiffers (Vienna, Austria), Emiel F.M Wouters, Tobias Lorenz Mraz, Marie-Kathrin Breyer, Otto C. Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

PA2426 Impulse oscillometry: a useful toll for the air trapping detection.
María Rodil Riera (LANGREO, Spain), Ramón Fernández Álvarez, Marta Íscar Urrutia, María José Vázquez López, Gemma Rubinos Cuadrado, Isabel Martinez Gonzalez-Posada, Angela Lanza Martinez, Laura Martinez Vega, Eduardo Sanchez Vazquez, Juan Francisco Nieves Salceda, Laura Abad Chamorro, Patricia Alvarez Alvarez, Marta Maria Garcia Clemente

PA2427 Past acute exacerbations predict future relapses in patients with chronic hypercapnic COPD receiving long-term non-invasive ventilation
Balázs Csoma (Budapest, Hungary), Zsófia Lázár, Joshua Hilton, Ellie Walker, Kelly Sharman, Jorgen Vestbo, Andrew Bentley, Andras Bikov

PA2428 Desaturation during exercise in patients with chronic obstructive pulmonary disease: new predictive factors for nocturnal desaturation
Elena Lesaga López (Córdoba (Córdoba), Spain), Antonio Jurado García, Cristina Muñoz Corroto, Pablo García Lovera, Marta Dominguez Gómez, Roberto Martín De León, Nuria Feu Collado, Bernabe Jurado Gamez

PA2429 A survey about knowledge of exhaled nitric oxide use among Southern Italian pulmonologists and trainees.
Silvano Dragonieri (Bari (BA), Italy), Alessio Marinelli, Andrea Portacci, Leonardo Maselli, Ernesto Lulaj, Ilaria Iorillo, Francesca Montagnolo, Flogerta Sana, Ruben Infantino, Giovanni Dalena, Giovanna Elisiana Carpagnano

PA2430 Small airways impairment and hyperinflation in patients with bronchiectasis; preliminary data from a tertiary center.
Nikolaos Lazarinis (Stockholm, Sweden), Pia Ghosh, Malin Sande, Ann Sofie Lantz, Eva Wallen Nielsen, Barbro Dahlén, Apostolos Bossios
Gold  
Session 239  08:30 - 10:00

Guidelines session: Management of adults with spontaneous pneumothorax/what’s new in the management of severe community-acquired pneumonia

1) ERS/EACTS/ESTS clinical practice guidelines on adults with spontaneous pneumothorax and 2) ERS/ESICM/ESCMID/ALAT guidelines for the management of severe community-acquired pneumonia

Aims: to discuss two new published guidelines, namely, ERS/EACTS/ESTS clinical practice guidelines on adults with spontaneous pneumothorax and ERS/ESICM/ESCMID/ALAT guidelines for the management of severe community-acquired pneumonia (sCAP); to present an overview of new evidence in the management of spontaneous pneumothorax and sCAP; to outline the recommendations identified in the guidelines on pneumothorax and sCAP; to provide pragmatic guidance for specialists on how to best manage spontaneous pneumothorax and sCAP.

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

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
All Speakers

09:15  What’s new in sCAP
Ignacio Martin-Lloeches (Dublin, Ireland)

09:30  Coadjuvants in sCAP
Antoni Torres Marti (Barcelona, Spain)

09:45  Discussion and Q&A
All Speakers

Silver  
Session 240  08:30 - 10:00

Symposium: Pulmonary hypertension and interstitial lung diseases: dilemmas in diagnosis and the conundrum of treatment

Aims: to provide the latest updates on pulmonary hypertension (PH) due to interstitial lung disease (ILD), including screening/diagnosis, treatment and future research directions. PH often complicates many forms of advanced lung disease, including pulmonary fibrosis; to discuss the main novel achievements (pathophysiology, diagnosis and management) in the field of PH when patients have CLDs; to strengthen understanding of PH due to lung diseases and to improve the care and quality of life of affected patients.

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

Method(s): Cell and molecular biology  Imaging  Physiology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Radiologist, Scientist (basic, translational)

Chairs: Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France), Thomas Koudstaal (Rotterdam, Netherlands)

08:30  What do we know about the mechanisms of PH in ILD: translational research
Soni Savai Pullamsetti (Giessen, Germany)
<table>
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<tr>
<td>08:45</td>
<td>Session</td>
<td>From screening to phenotypes in PH-ILDs: the impact of new guidelines</td>
<td>Lucilla Piccari (Barcelona, Spain)</td>
<td>2441</td>
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<td>09:00</td>
<td>Session</td>
<td>Pro: it is time to treat PH in ILD</td>
<td>Oksana Shlobin (Falls Church, United States)</td>
<td>2442</td>
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<tr>
<td>09:15</td>
<td>Session</td>
<td>Con: it is not time to treat PH in ILD</td>
<td>Stephen Wort (London, United Kingdom)</td>
<td>2443</td>
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<td>09:30</td>
<td>Session</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Coral 4+5 Session 241 08:30 - 10:00**

State of the art session: Sleep and breathing disorders  
Sleep-disordered breathing and the heart. What is next?  

**Aims**: to discuss the latest data about sleep-disordered breathing in association with cardiovascular disease; to present and discuss new evidence in the field that will contribute to the management of sleep-disordered breathing.

**Disease(s)**: Sleep and breathing disorders  
**Method(s)**: General respiratory patient care, Respiratory intensive care  
**Tag(s)**: Clinical  
**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Patient, Journalist  
**Chairs**: Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

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<tr>
<td>08:30</td>
<td>Antihypertensive drugs vs. positive pressure. Which one is better to reduce hypertension?</td>
<td>Silke Ryan (Dublin, Ireland)</td>
<td>2445</td>
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<td>08:45</td>
<td>Heart failure in sleep-disordered breathing: is positive airway pressure therapy meaningful?</td>
<td>Douglas Bradley (Toronto (ON), Canada)</td>
<td>2446</td>
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<td>09:00</td>
<td>Is sleep-disordered breathing a risk factor or phenotype of cardiovascular disease?</td>
<td>Manuel Sanchez De La Torre (Lleida, Spain)</td>
<td>2447</td>
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<td>09:15</td>
<td>New kids on the blocks: pharmacologic treatment of sleep-disordered breathing also for cardiovascular patients?</td>
<td>Elisa Perger (Milano, Italy)</td>
<td>2448</td>
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<td>09:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Coral 3 Session 242 08:30 - 10:00**

Hot topics: Non-invasive high-flow nasal therapy or positive pressure ventilation in acute and chronic respiratory care  

**Aims**: to discuss the mechanisms, evidence for clinical effectiveness and cost-effectiveness of non-invasive positive pressure ventilation and high-flow nasal therapy in acute and chronic respiratory failure.

**Disease(s)**: Airway diseases, Respiratory critical care, Sleep and breathing disorders  
**Method(s)**: General respiratory patient care, Respiratory intensive care  
**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)

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<tr>
<td>08:30</td>
<td>Flow treatment in acute respiratory care</td>
<td>Lara Pisani (Bologna (BO), Italy)</td>
<td>2450</td>
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<tr>
<td>08:45</td>
<td>Pressure treatment in acute respiratory care</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
<td>2451</td>
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<tr>
<td>09:00</td>
<td>Flow treatment in chronic respiratory care</td>
<td>Rebecca D'Cruz (London, United Kingdom)</td>
<td>2452</td>
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<tr>
<td>09:15</td>
<td>Pressure treatment in chronic respiratory care</td>
<td>Wolfram Windisch (Cologne, Germany)</td>
<td>2453</td>
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Hot topics: What did you always want to know about omics analyses for clinical practice?

Aims: to discuss the rapid advances in omics technology and the molecular phenotyping of asthma and COPD cohorts that now permit large-scale evaluation of genetic, transcriptomic, proteomic and metabolic biomarkers.

Disease(s): Airway diseases

Method(s): Cell and molecular biology

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

Chairs: Niki L. Reynaert (Maastricht, Netherlands), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Sara Cuevas Ocaña (Nottingham, United Kingdom)

08:30 Transcriptomics in chronic airway diseases: when, how and why?
Martijn C. Nawijn (Groningen, Netherlands)

08:45 Spatial omics: a cutting-edge tool to navigate the airway map
Francesca Polverino (Houston, United States)

09:00 Proteomics in airway diseases: current approaches and future directions
Ian M. Adcock (London, United Kingdom)

09:15 Integration of omics in clinical cohorts: unrolling Ariadne’s thread
Rosa Faner Canet (Barcelona, Spain)

09:30 Discussion and Q&A
All Speakers

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 histicytosis 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

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)

08:52 Environmental health prevention and standards on air pollution, including Q&A
Isabella Annesi Maesano (Montpellier, France)

09:14 Diagnosis and treatment of Langerhans cell histiocytosis in adults, including Q&A
Sergio Alfonso Harari (Milano (MI), Italy)

09:36 Treatment of stage I non-small cell lung cancer, including Q&A
Georgia Hardavella (Athens, Greece)

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
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<th>Event</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td><strong>Session 246</strong></td>
<td>08:30</td>
<td><strong>Patient and outcome assessment for care and rehabilitation at home</strong></td>
<td>Narelle Cox (Melbourne (VIC), Australia)</td>
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<tr>
<td><strong>Exercise training and physical activity intervention at home</strong></td>
<td>08:45</td>
<td>Mare Spielmanns (Wald, Switzerland)</td>
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<td><strong>Education, self-management and other components of home-based care and rehabilitation</strong></td>
<td>09:00</td>
<td>Jean Bourbeau (Montréal (QC), Canada)</td>
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<tr>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>09:15</td>
<td>All Speakers</td>
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<td><strong>Session 247</strong></td>
<td>08:45</td>
<td><strong>Pro: age of 65 years is no longer a barrier for lung transplant candidacy</strong></td>
<td>Konrad Hoetzenecker (Wien, Austria)</td>
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<td><strong>Con: age still matters in candidate selection for lung transplantation</strong></td>
<td>09:00</td>
<td>Are Martin Holm (Oslo, Norway)</td>
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<tr>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>09:15</td>
<td>All Speakers</td>
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<td><strong>Session 250</strong></td>
<td>09:30</td>
<td><strong>Late Breaking Abstract - INNA-051 prophylaxis enhances innate immune responses confirming accelerated viral clearance in a human influenza challenge model.</strong></td>
<td>Francesca Mercuri (Melbourne, Australia), Hayley Mcquilten, Nicholas West, Ping Zhang, Scott White, Bruce.E Miller, Ruth Tal-Singer, Christophe Demaison</td>
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<tr>
<td><strong>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</strong></td>
<td>09:30</td>
<td>Joan B Soriano (Madrid, Spain), Adrián Pelaez, Esteve Fernandez, Julio Ancochea</td>
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<td><strong>LSC - 2023 - Longitudinal proteomic profiling reveals early onset increase in collagens and (auto-)antibodies in COVID-19 patients</strong></td>
<td>09:30</td>
<td>Anna Semenova (Munich, Germany), Taylor Alexander Poor, Philipp Geyer, Ali Oender Yildirim, Theodore S. Kapellos, Alexander V Misharin, Gr Scott Budinger, Herbert B. Schiller</td>
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<td><strong>Diagnosis of COVID-19 with enhanced real-time mass spectrometry breath analysis</strong></td>
<td>09:30</td>
<td>Stanislas Grassin Delyle (Montigny le Bretonneux, France), Camille Roquencourt, Hélène Salvator, Emmanuelle Bardin, Elodie Lamy, Eric Farfou, Naline Emmanuel, Philippe Devillier</td>
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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 Faran

Plasma proteomics of critical COVID-19 patients and the effect of imatinib treatment
Erik Duijvelaar (Amsterdam, Netherlands), Jack Gishy, James E Peters, Harm 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 Sidduraj, Jimmie Jönsson, Jamie M Orengo, Matthew A Sleeman, Sandra Lindstedt, Cecilia Andersson, Luiz Fernando Silva, Armaro Nunes Duarteneto, Paulo Hilario Nascimento Saldíva, 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 Gierschach, Gabriel Chodick, David Greenberg, Jeffrey Haspel

Omer Elinea (Leicester, United Kingdom), Hamish J C Mauley, Olivia C Leavy, James D Chalmers, Ling-Pei Ho, Alexander Horsley, Michael Marks, Betty Raman, Krisnah Poinasamy, Amisha Singapuri, Rachael A Evans, Chris E Brightling, Louise V Wain

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
All Speakers

Brown 1+2 Session 251 09:30 - 10:45
Oral presentation: Pathways and mechanisms governing the pathogenesis of asthma and chronic obstructive pulmonary disease

Disease(s): Airway diseases, Respiratory critical care
Method(s): Epidemiology, Cell and molecular biology, Physiology, General respiratory patient care
Tag(s): Clinical, Translational

Late Breaking Abstract - Effect of MMP-12 inhibitor, Adermastat-(FP-025), on allergen-induced late response in asthmatic subjects
Zuzana Diamant (Lund, Sweden), Yisheng Lee, Wenjin Yang, Ben Chien, Bassem Elmankabadi, David Lau, Khalid Abd-Elaziz, Arjen Pelgrom, Aeilko Zwinderman, René Lutter

Late Breaking Abstract - Dynamics of the blood innate lymphoid cell compartment in patients with severe asthma undergoing type 2 biologics treatment: Initial findings in the BIOCRoss study
Lorenz Wirth (Huddinge, Sweden), Valentina Yasinska, Christopher Andrew Tibbitt, Whitney Weigel, Thomas Hochdörfer, Lars I. Andersson, Maria Sparreman-Mikus, Barbro Dahlén, Sven-Erik Dahlén, Jenny Mjöberg

Late Breaking Abstract - Stability of type 2 inflammation in a 12-year adult-onset asthma follow-up study
Ella Flinkman (Tampere, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Madeleine Rådinger, Bright Nwaru, Pinja Ilmarinen, Hannu Kankaanranta

Polygenic and transcriptional risk scores identify chronic obstructive pulmonary disease subtypes
Matthew Moll (Boston, United States), Julian Hecker, John Platig, Auyon Ghosh, Katherine Pratte, Davin Hill, Iain Konigsberg, Joe Chiles, Craig Hersh, Peter Castaldi, Kimberly Glass, Jennifer Dy, Don Sin, Ruth Tal-Singer, Majd Mouded, Stephan Rennard, Gary Anderson, Russell Bowler, Jeffrey Curtis, Merry-Lynn Mcdonald, Edwin Silverman, Michael Cho, Brian Hobbs

Effect of anti-ST2 on blood leukocyte and serum protein levels: insight from a phase IIa, placebo-controlled trial of astegomab (COPD-ST2OP).
Adam Wright (Leicester (Leicestershire), United Kingdom), Matthew Richardson, Seid Mohammed, Claudia Micieli, Dorothy Cheung, David Cousins, Ahmed Yousuf, Neil Greening, Michele Grimaldston, 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. Wheelesock
Infertility in women with asthma – does asthma also exist in the uterus?
Anne Vejen Hansen (København NV, Denmark), Casper Tidemandsen, Henriette Svarre Nielsen, Reza Serizawa, Antje Johanne Katrine Stubsgaard, Elisabeth Juul Gade, Piu Egerup, Lea Langhoff Thuesen, Paul S Foster, Vanessa M Medonald, Peter G Gibson, Charlotte Supplit 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), Sofia Björkander, Paul Maier, Maura Kere, Simon Kebede Merid, Lorenz Wirth, Whitney Weigel, Jenny Mjölsberg, 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 Volfsøn, Katherine Radford, Nicola Calma, Melanie Kjarsgaard, Chynnna Huang, Parameswaran Nair, Manali Mukherjee

Blue 1+2 Session 252 09:30 - 10:45
Oral presentation: Paediatric bronchology: next generation

Childhood interstitial lung disease in Turkey: First data from the national registry

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 Längner, 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 Peradżyńska, Magdalena Paplińska-Goryca, Paulina Misiukiewicz-Śtępień, 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 Ditziter, 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
All Speakers

Yellow 1+2+3  Session 253  09:30 - 10:45
Oral presentation: Micro- and macro-environments and respiratory health

OA2515 Late Breaking Abstract - Biomarker profiles differ between lung function trajectories in adults with airway obstruction
Helena Backman (Lulea, Sweden), Jonas Eriksson-Ström, Anders Lundquists, Caroline Stridsman, Linnea Hedman, Eva Rönmark, Anders Blomberg, Anne Lindberg

OA2516 Antimicrobial resistance genes in the upper respiratory tract of COPD patients and controls in relation to air pollution from livestock farms
Beatrice Cornu Hewitt (Utrecht, Netherlands), Alex Bossers, Warner Van Kersen, Myrna De Rooij, Lidwien A.M. Smit

OA2517 Association between indoor bacterial communities, lung function and airway inflammation

OA2518 Ambient air pollution exposure linked to long COVID among Swedish young adults
Zhebin Yu (Solna, Sweden), Sandra Ekström, Tom Bellander, Petter Ljungman, Göran Pershagen, Kristina Eneroth, Inger Kuhl, Anna Bergström, Antonios Georgelis, Massimo Stafoggia, Olena Gruzieva, Erik Melén

OA2519 The residential green environment and lung function into adolescence in European birth cohorts. A CADSET initiative
Carlos Valencia-Hernandez (London, United Kingdom), Ulrike Gehring, Gerard H. Koppelman, Marie Standl, Claudia Flexeder, Tamara Schikowski, Sara Kress, Erik Melén, Olena Gruzieva, Judith Garcia-Aymerich, Sara Koch, Chloe I. Bloom, Elaine Fuertes

OA2520 Air pollution modifies the association between greenness and the development of allergic rhinitis up to 27 years of age: The Espoo Cohort Study
Inês Paciência (Oulu, Finland), Aino K. Rantalä, Harri Antikainen, Jan Hjort, Timo T. Hugg, Maritta S. Jaakkola, Jouni J.K. Jaakkola

OA2521 Long-term exposure to air pollution and the risk of obstructive lung disease in a Danish nationwide analysis
Rina So (London, United Kingdom), 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

OA2522 Long-term exposure to ambient ozone and lung function decline over 20 years in a prospective cohort of adults: The ECERS study
Joachim Heinrich (München, Germany), Tianyu Zhao

OA2523 Influence of improved cookstove in rural Rwanda on indoor air pollution and lung function
Henning Kothe (Hamburg, Germany), Andrea Cuesta, Leizel Madueno, Mira Pöhlker, Alan Mubiru, Christine Muhongvura, Jan Rupp

OA2524 Economic and environmental impact of the non-clinical change of inhaler devices for COPD and asthma in Spain
Joan B Soriano (Madrid, Spain), Miriam Solozabal-Coli, Jose Vicente Galindo, Oriol Solà-Morales

OA2525 Discussion and Q&A
All Speakers

Studio (White)  Session 254  10:00 - 10:50
Experts interview: Preparing for the next pandemic/respiratory physiotherapy in children
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

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

**Chairs**: Walter De Wever (Leuven, Belgium), Daiana Stolz (Freiburg, Germany), Amanda Dandanell Juul (Odense S, Denmark)

**10:15** Hypersensitivity pneumonitis, including Q&A
Speaker to be confirmed

**10:37** Asthma, rhinosinusitis and COPD, including Q&A
Anna Kerpel-Fronius (Budapest, Hungary)

**10:59** Environmental exposure: pneumoconosis, including Q&A
Johny Verschakelen (Leuven, Belgium)

**11:21** Respiratory infection in the era of a changed climate, including Q&A
Eva Polverino (Barcelona, Spain)

**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)
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 - 10:30

**New diagnostic tools for SDB: from technical standards to artificial intelligence and clinical implications**

Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

### 10:30 - 10:45

**Biochemical biomarkers: do they have a role in the diagnosis of SDB?**

Malcolm Kohler (Zürich, Switzerland)

### 10:45 - 11:00

**Pathophysiological traits: how to determine in routine polysomnography/polygraphy and translate into clinical decisions?**

Winfried J. Randerath (Solingen, Germany)

### 11:00 - 11:15

**Diagnostic approach of excessive daytime sleepiness**

Maria Rosaria Bonsignore (Palermo, Italy)

### 11:15 - 11:30

**Discussion and Q&A**

All Speakers

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**Hot topics: Emerging evidence to improve quality of survival after critical illness**

**How can we best manage the rehabilitation needs of intensive care unit survivors?**

**Aims:** To address issues pertaining to the optimal frequency, modality and timing of early rehabilitation in critically ill patients based on the results of a recent landmark multicentre trial; to discuss the role of respiratory muscle conditioning in improving weaning outcomes and functional recovery of mechanically ventilated patients based on the results of the recent IMPROVE randomised trial; to increase awareness of the complicated and persistent morbidity and resulting rehabilitation needs that follow critical illness, reviewing recent studies on outcomes after critical illness; to provide experts with guidance on how to design a personalised rehabilitation program for intensive care unit survivors.

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

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

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

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Heleen Demeyer (Leuven, Belgium)

### 10:15 - 10:30

**Lessons from the TEAM trial on early mobilisation of critically ill patients**

Sabrina Eggmann (Bern, Switzerland)

### 10:30 - 10:45

**Effectiveness of respiratory muscle training for improving weaning outcomes and functional recovery in mechanically ventilated patients**

Daniel Langer (Leuven, Belgium)

### 10:45 - 11:00

**Patient's perspective**

Speaker to be confirmed
Multidimensional disability after critical illness: implications for rehabilitation
MICHELE VITACCA (Lumezzane (Brescia), Italy)

How to build a personalised rehabilitation program for intensive care unit survivors?
Carolyn Rochester (New Haven, United States)

Discussion and Q&A
All Speakers

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

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)

Deciphering extracellular vesicle cargo and its implications for pulmonary fibrosis
Olivier Burgy (Dijon, France)

Extracellular vesicles as a biomarker in ageing-related lung disease
Louise Donnelly (London, United Kingdom)

An extracellular vesicle-based vaccine against SARS-CoV-2
Kenneth Witwer (Baltimore, United States)

Mesenchymal stem cell-derived extracellular vesicles as executers of host cell reprogramming in acute respiratory distress syndrome
Anna Krasnodembskaya (Belfast (Belfast), United Kingdom)

Discussion and Q&A
All Speakers

Respiratory medicine meets other disciplines: Acute respiratory infections: what's new?
A jointERS/European Scientific Working Group on Influenza (ESWI) session

Aims: to provide an update about the latest data on the evolution, epidemiology, pathogenesis, prevention and treatment of influenza, COVID-19 and other respiratory virus infections; to discuss the disease pathogenesis with a focus on systemic and mucosal biomarkers; to discuss strategies to prevent infection by vaccination and management of viral infections.

Disease(s): Respiratory critical care, Respiratory infections

Method(s): Epidemiology, General respiratory patient care

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)

The pathogens: worldwide evolution and epidemiology of acute respiratory viruses
Collin Russell (Amsterdam, Netherlands)

The host response: pathogenesis of disease focusing on systemic and mucosal biomarkers
Peter Openshaw (London, United Kingdom)
**Purple Session 261 10:15 - 11:45**

**Mini symposium: Rise of the machines: advances in home mechanical ventilation**

**Aims:** to describe the advances in home mechanical ventilation that are important for inpatient and outpatient treatment.

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

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

**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)

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<tr>
<td>10:15</td>
<td><strong>Advances in physiology of chronic respiratory failure</strong></td>
<td>Wolfram Windisch (Cologne, Germany)</td>
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<td>10:30</td>
<td><strong>Do we need new modes of home mechanical ventilation in COPD?</strong></td>
<td>Patrick B. Murphy (Oxted (Surrey), United Kingdom)</td>
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<td>10:45</td>
<td><strong>The good, the bad and the ugly of home mechanical ventilation telemonitoring</strong></td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<td>11:00</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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**10:30-11:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**Patient: Coffee and clean air -2**

Skills workshop: SW5 Interpretation of cardiopulmonary exercise tests

**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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<td>10:40</td>
<td><strong>Introduction</strong></td>
<td>All Speakers</td>
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<tr>
<td>10:40</td>
<td><strong>Relationship between oxygen uptake and work rate</strong></td>
<td>Paolo Onorati (Alghero (SS), Italy)</td>
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<tr>
<td>10:40</td>
<td><strong>Anaerobic/lactate threshold</strong></td>
<td>Luis Puente Maestu (Madrid, Spain)</td>
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</tbody>
</table>
Amber 3+4 Session 266 10:40 - 13:00

**Skills workshop: SW8 Practicalities of spirometry and whole-body plethysmography**

**Aims:** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

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

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

**Tag(s):** Clinical

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

**Chairs:** Frits M.E. Franssen (Horn, Netherlands)

**10:40 Introduction**
All Speakers

**10:40 Performing spirometry**
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

**10:40 Standardised static lung volume measurement using whole-body plethysmography**
Monique Wapenaar - De Korver (Vlaardingen, Netherlands)

**10:40 Measurement of airway resistance and resistance-volume loops using whole-body plethysmography**
Mart N. van der Plas (Monster, Netherlands)

**10:40 Reporting and interpretation of case studies**
Gregory King (Sydney (NSW), Australia)

Red 1+2 Session 267 11:00 - 12:15

**Oral presentation: Novel treatment options for pulmonary fibrosis**

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

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

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

**Chairs:** Julien Guiot (Liège, Belgium), Elisabetta Renzoni (London, United Kingdom)

**OA2579**

Late Breaking Abstract - A KIF15 missense variant is associated with a distinct prognostic clinical phenotype in idiopathic pulmonary fibrosis
Mari Ainola (Helsinki, Finland), Maria Hollmén, Atte Laaka, Juulia Partanen, Jukka Koskela, Eva Sutinen, Riitta Kaarteenaho, Marjukka Myllärniemi

**OA2580**

Late Breaking Abstract - Efficacy and safety of DANAZOL for pulmonary fibrosis associated with telomere related gene mutation

**OA2581**

A Novel Interleukin-11 Receptor Antibody, LASN01 Is Well Tolerated and Demonstrates Target Engagement in Phase 1
Puneet Arora (Redwood City, United States), Jason Lickliter, Barbara Richardson, James Swaney, Toni Jun, Deborah Harris, Jeffrey Hartung, Matias Portela, David King

**OA2582**

Nebulised pirfenidone in idiopathic pulmonary fibrosis (IPF): first look at FVC data
Alex West (London, United Kingdom), Alexandra Lawrence, Hao Bao, Deepthi Nair, Courtney Thompson, Felix Woodhead
### OA2583
**Post hoc pooled analyses of open-label and randomized controlled trials of senolytics dasatinib and quercetin in idiopathic pulmonary fibrosis**

Dean Kellogg (San Antonio, United States), Anoop Nambiar, Jaime Justice, Martin Goros, Jonathan Gelfond, Rodolfo Pascual, Shahrukh Hashmi, Michal Masternak, Larissa Prata, Nathan Lebrasseur, Andrew Limper, Steven Kritchevsky, Nicholas Musi, Tamar Tchkonia, James Kirkland

### OA2584
**Effect of BI 1015550, a preferential PDE4B inhibitor, on gene expression profiles and lung function in IPF**

Luca Richeldi (Roma, Italy), Janine Roy, Ramona Schmid, Christian Hesslinger, Toby M. Maher

### OA2585
**Safety and efficacy study of ACT001 in IPF and fILD patients**

Ian Glaspole (Melbourne (VIC), Australia), Dongpo Cai, Dan Chambers

### OA2586
**Treatment of obstructive sleep apnoea in patients with interstitial lung disease improves quality of life and survival**

Katherine Myall (London, United Kingdom), Alex West, Jennifer Martinovic, Zhe Wu, Toby M Maher, Philip Molyneaux, Eui-Sik Suh, Brian D Kent

### OA2587
**A feasibility, wait-list design randomised controlled trial of a complex breathlessness intervention in idiopathic pulmonary fibrosis (BREEZE-IPF)**

Dominic Sykes (Hull, United Kingdom), Caroline Wright, Simon P Hart, Victoria Allgar, Anne English, Flavia Swan, Judith Dyson, Gerry Richardson, Maureen Twiddy, Judith Cohen, Andrew Simpson, Chao Huang, Miriam Johnson, Michael G Crooks

### OA2588
**A Randomized, Embedded, Multifactorial Adaptive Platform trial for ILD (REMAP-ILD): The conceptual design**

Tejaswini Kulkarni (Homewood, United States), Leticia Kawano-Dourado, Kerri 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

### OA2589
**Discussion and Q&A**

All Speakers

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### Brown 3  Session 268  11:00 - 12:15

**Oral presentation: Interventional pulmonology: exploring new frontiers**

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

#### Method(s):
Endoscopy and interventional pulmonology  Pulmonary rehabilitation  Surgery

#### Tag(s):
Clinical

#### Chairs:
Jouke T. Annema (Amsterdam, Netherlands), Michela Bezzi (Brescia, Italy)

**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 Tsuda

**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. Franzén, 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**


**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, Stefan Eggeling, Stefan Andreas, Bernd Schmidt, Stephan Eisenmann, Björn Schwicke, Karl-Josef Franke, Andreas Fertl, Ralf-Harto Hübner
### Oral Presentations

#### OA2596
**Treatable traits in advanced emphysema patients eligible for bronchoscopic lung volume reduction**
Reim Posthuma (Maastricht, Netherlands), Marieke C. Van Der Molen, Jorine E. Hartman, Martijn A. Spruit, Dirk-Jan Slebos, Lowie E.G.W. Vanfleteren, Anouk W. Vaes

#### OA2597
**First European Results: Shape-Sensing Robotic Assisted Bronchoscopy for Biopsy of Peripheral Lung Nodules**
Judith Brock (Heidelberg, Germany), Susanne Dittrich, Konstantina Kontogianni, Mavi Schellenberg, Claus-Peter Heussel, Laura Klotz, Hauke Winter, Felix Herth

#### OA2598
**A multi-center, prospective study of transbronchial radiofrequency ablation for peripheral lung tumors: study progress and initial results**
Shi-Yue Li (Guangzhou, China), Chang-Hao Zhong, Jia-Yuan Sun, Zhu-Quan Su, En-Guo Chen, Di-Fei Chen, Feng Wang, Xiao-Ping Wang, Guang-Nan Liu, Xiao-Ju Zhang, Feng-Ming Luo, Nan Zhang, Hong-Wu Wang, Long-Yu Jin, Fa Long, Chun-Fang Liu, Shi-Man Wu, Qing Geng, Xiang Wang, Chun-Li Tang, Felix Herth

#### OA2599
**Diagnostic Yield of Shape Sensing Robotic-Assisted Bronchoscopy for Pulmonary Nodules Less than 2cm Pre and Post-3D Fluoroscopy**
David Abia-Trujillo (St Johns, United States), Alejandra Yu Lee-Mateus, Alanna Barrios-Ruiz, Fabiana Diaz-Churion, Neal M. Patel, Britney N. Hazelett, Ryan M. Chadha, Sebastian Fernandez-Bussy

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### Discussion and Q&A
**Brown 1+2**
Session 269  11:00 - 12:15
**Oral presentation: New mechanisms and novel insights in chronic obstructive pulmonary disease and chronic cough**
**Disease(s):** Airway diseases  
**Method(s):** Cell and molecular biology  General respiratory patient care  Physiology  Imaging  Epidemiology  Public health  Pulmonary rehabilitation  
**Tag(s):** Clinical, Translational  
**Chairs:** Alexander Mathioudakis (Stockport, United Kingdom), Lies Lahousse (Ghent, Belgium)

#### OA2601
**Late Breaking Abstract - A first-in-human study of ARO-RAGE, an RNAi therapy designed to silence pulmonary RAGE expression**
Mark O’Carroll (Auckland, New Zealand), John Huetsch, James Hamilton, Lindsey Moser, Sudar Alagarsamy, Matthias Salathe

#### OA2602
**Inhaled Ensifentrine, decreased healthcare research utilization and reduced moderate exacerbation rate and risk in COPD over 24 Weeks**
Henrik Watz (Großhansdorf, Germany), Tara Rheault, Thomas Bengtsson, Kathleen Rickard

#### OA2603
**Vitamin K status is associated with CT-quantified emphysema severity: results from COSYCONET**
Iantie Piscaer (Maastricht, Netherlands), Rob Janssen, Robert Bals, Jürgen Biederer, Rudolf Jörres, Leon Schurgers, Claus Vogelmeier, Emiel Wouters, Peter Alter, Frits Franssen

#### OA2604
**The effect of different inhaled corticosteroids on airway bacterial load and the microbiome in COPD: a randomized controlled trial**
Hollian Richardson (Dundee, United Kingdom), Holly R Keir, Clare Clarke, Daniela Alfères De Lima, Abirami Veluchamy, Petra Rauchhaus, Thomas Pembridge, Megan Crichton, Jennifer Pollock, Simon Finch, Alison J Dicker, Pauline Billingham, Furrah Hussain, Margaret Band, Andrew Smith, Manish Patel, Mohammad Paracha, Gourab Choudhury, Devesh Dhasmana, Rekha Chaudhuri, Philip M Short, James D Chalmers

#### OA2605
**Oral corticosteroid use and sarcopenia-related traits in older people with chronic airway disease.**
Lies Lahousse (Ghent, Belgium), Elizabeth Benz, Johnmary Arinze, Sara Wijnant, Maria De Ridder, Fernando Rivadeneira, Guy Brusselle, Bruno Stricker

#### OA2606
**Lifestyle interventions to reduce particulate matter exposure in patients with COPD**
Jieun Kang (Goyang, Republic of Korea), Ji Ye Jung, Hyun Woo Ji, Hwan-Chel Kim, Sei Won Lee

#### OA2607
**Blood eosinophil counts in younger smokers from the Early COPD Development Partnership**
Augusta Beech (Manchester, United Kingdom), Andrew Ritchie, Andras Bikov, Gavin C Donaldson, Luana Alves-Moreira, Peter Calverley, Jørgen Vestbo, Jadwiga A Wedzicha, Dave Singh

#### OA2608
**Blood eosinophil count (BEC) measured before starting inhaled corticosteroids (ICS) is better associated with treatment response to ICS in COPD.**
Alexander Mathioudakis (Stockport, United Kingdom), Sebastian Bate, Pradeesh Sivapalan, Jens-Ulrik Jensen, Dave Singh, Jørgen Vestbo
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, Lauren 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
All Speakers

Blue 1+2
Session 270
11:00 - 12:15
Oral presentation: Best abstracts in respiratory physiotherapy

Disease(s) : Interstitial lung diseases, Airway diseases, Respiratory critical care, Sleep and breathing disorders
Method(s) : General respiratory patient care, Pulmonary rehabilitation, Respiratory intensive care, Physiology
Tag(s) : Clinical
Chairs : Martijn A. Spruit (Horn, Netherlands), Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

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 cohort
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-Yagli, Deniz Dogru, Melda Sağlam, Ebru Çalış-Kutukcu, Nagehan Emrialoğlu, Ebru Yalcın, Ügür Ozcetik, Nural Kiper, Deniz Inal-Ince

Inspiratory muscle training for dyspnea management in people with unilateral diaphragm dysfunction
Michele Schaeffer (Leuven, Belgium), Zafeiris Louvaris, Antenor Rodrigues, Diego Poddighe, Ghislaine Gayan-Ramirez, Tin Gojovic, 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 Sağlam, Tamer Çankaya, Suat Konuk, Emine Özşar, Merve Başol Gökşülük

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), Cintia Dias, António Pedro Gonçalves, Chris Burtin, Alda Marques

Effects of intrapulmonary percussive ventilation in critical care patients: A randomised controlled trial
Anwar Hassan (Glenmore Park, Australia), Fiona Fitzsimons, Deepa Shetty, Richard Evans, Jennifer Alison, Stephen Huang, Maree Milross

Paediatric MI-E therapy; three treatment strategies’ impact on comfort and cough flows
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Cathrine Brunborg, Ingvild Bruun Mikalsen, Maria Vollseter, Vegard Hovland

Discussion and Q&A
All Speakers

Yellow 1+2+3
Session 271
11:00 - 12:15
Oral presentation: Innovations in pulmonology
**Disease(s):** Airway diseases, Respiratory critical care, Interstitial lung diseases

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

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

**Chairs:** Nahal Mansouri (Lausanne, Switzerland), Raquel Guillamat Prats (Badalona, Spain)

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**OA2623**

**Late Breaking Abstract - Claudin-1 is a potential airway-centric therapeutic target for pulmonary fibrosis**

Geoffrey Teixeira (Allschwil, Switzerland), Emanueluela Elsa Cortesi, Vincent Anquetil, Elisa Polini, Sven Blüme, Hussein El Saghir, Laurent Mailly, Thomas Baumert, Antje Prasse, Alberto Tosò, Markus Meyer, Stephen Toovey, Luigi Manenti, Roberto Iacone, Frauke Christ, Bart Vanaudenaerde, Marianne Carlion, Wim Wuysts

**OA2624**

**Spatiotemporal analysis of inflamming and senescence programs in lung fibrosis using time-resolved single-cell transcriptomics and multiplexed immunofluorescence**

Janine Gote-Schniering (Bern, Switzerland), Janine Gote-Schniering, Mareike Lehmann, Meshal Ansari, Konstantin Wiedemann, M. Camila Melo-Narváez, Carina Steichen, R. Christoph Jentzsch, Christoph Mayr, Yuexin Chen, Niklas Lang, Ahmed Agami, Ilías Angelidís, Shuhong Zhou, Melanie Königshoff, Fabian Theis, Herbert Schiller

**OA2625**

**Modelling the support function of vascularized lung endothelial cells for alveolar progenitor function using an alveolus-on-chip**

Abilash Ravi (Leiden, Netherlands), Tarek Gensheimer, Xinhui Wu, Jill R. Johnson, Martin C. Harmsen, Reinoud Gosens, Pieter S. Hiemstra, Andrés D. Van Der Meer, Anne M. Van Der Does

**OA2626**

**A spatially resolved extracellular matrix proteome atlas of the distal human lung**

Yuexin Chen (München, Germany), Janine Gote-Schniering, Michaela Müller, Pascal Albanese, Andris Jankevics, R. Christoph Jentzsch, Aleksandra Tata, Meshal Ansari, Lauren De Sadeleer, Lin Yang, Lukas Heumos, Ahmed Agami, Shuhong Zhou, Christoph H. Mayr, Rudolf Hatz, Christian P. Schneider, Jürgen Behr, Anne Hilgendorf, Ali Oender Yildirim, Mircea-Gabriel Stoleriu, Peter Dorfmüller, Fabian J. Theis, Purushothama Rao Tata, Malte D. Luecken, Richard A. Scheltema, Herbert B. Schiller

**OA2627**

**Single cell spatial analysis of lungs from patients with fatal COVID-19 reveals a cellular network marked by inflammatory foci of immature neutrophil and CD8 T cells localised to alveolar progenitor cells**

Ling-Pei Ho (Oxford (Oxfordshire), United Kingdom), Praveen Weeratunga, Laura Demney, Joshua Bull, Emmanouela Repapi, Martin Sergeant, Chaitanya Vuppusetty, C. Cosminsimplex Consortium, Helen Byrne, Stephen Taylor

**OA2628**

**Pulmonary acute lung injury causes behavioral changes, oxidative stress imbalance, and reduced brain nicotinic receptors expression**

Stephanie Nonato de Castro (Santos, Brazil), Priscila B S Barbosa, Vitoria C De Queiroz, Nathalia M Pinheiro-Menegasso, Beatriz M Fujihara, José Ivo A Beserra, Ana Cláudia Custódio, Iolanda De Fátima Lc Távora, Rodrigo P Ureshino, Rafael H Lambertucci, Ayman K Hamouda, Roberta Ss Yamaguchi, Alessandra M Ribeiro, Carla M Prado

**OA2629**

**Pulmonary endothelial cells support human alveolar epithelial repair and regeneration**

Abilash Ravi (Leiden, Netherlands), Britte F. Van Der Vliet, Xinhui Wu, Anne M. Van Der Does, Andrés D. Van Der Meer, Jill R. Johnson, Martin C. Harmsen, Reinoud Gosens, Pieter S. Hiemstra

**OA2630**

**Humanized mouse lung can be infected by SARS-CoV-2**

Wei Zuo (Shanghai, China), Yueqing Zhou, Yuanfei Zhu, Gaowei Hu, Shujuan Du, Yu Zhao, Qiao Wang, Qiang Deng

**OA2631**

**Combined treatments promoting the functional integrity of cystic fibrosis airway epithelia**

Emmanuelle Brochiero (Montréal (QC), Canada), Damien Adam, Sarah Moustadraf, Benjamin Orcese, Émilie Maillé, Manon Ruffin, Geoffrey Mckay, Guillaume Millette, François Malouin, Christelle Coraux, Dao Nguyen

**OA2632**

**Elementary, my lung fibrosis: unravelling elemental aspects in IPF pathology**

Bryan Falcones (Malmö, Sweden), Maik Kahnt, Barbora Michaliková, Úlf Johansson, Linda Elowsson, Karina Thånell, Gunilla Westergren-Thorsson

**OA2633**

**Discussion and Q&A**

All Speakers

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**Studio (White) Session 272 11:15 - 12:45**

**Online skills lab: Oscillometry and spirometry**

**Aims:** to demonstrate the measurement of lung function with simple (handheld) and/or professional spirometers, including how to prepare the equipment and perform an optimal test; to demonstrate forced oscillometry measurements and to highlight techniques that ensure accuracy; to discuss the interpretation of results, the clinical relevance of measurements and the advantages/disadvantages of the two techniques. All this will be achieved with live demonstrations, case studies of adults and children and interactive questions/discussion.

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

**Chairs:** Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)
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<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tr>
<td>11:15</td>
<td><strong>Introduction</strong></td>
<td>Omar S. Usmami (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands)</td>
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<tr>
<td>11:20</td>
<td><strong>Spirometry procedure</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<td>11:30</td>
<td><strong>Oscillometry procedure</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<td>11:50</td>
<td><strong>Case discussion (Spirometry paediatric, adult, oscillometry)</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands), Chung-Wai Chow (Toronto (ON), Canada)</td>
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**12:15-13:15**

**INDUSTRY LUNCHETIME SYMPOSIUM**

**PS-1 in poster area**

Session 282  12:30 - 14:00

**Poster session: Advances in telemonitoring/telerehabilitation and post-COVID conditions**

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

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

**Tag(s):** Clinical

**Chairs:** Heleen Demeyer (Leuven, Belgium), Chair to be confirmed

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<tr>
<th>Poster number</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>PA2681</td>
<td>Frailty during 1 year after hospitalisation for COVID-19: risk factors and outcomes from the PHOSP-COVID study</td>
<td>Hamish Mcauley (Leicester, United Kingdom), Rachael A Evans, Charlotte E Bolton, Christopher E Brightling, Omer Elneima, Paul L. Greenhaff, William D-C Man, Matthew Richardson, Sally J Singh, Michael Steiner, Louise V Wain, Miles D Witham, Janet Lord, Neil J Greening</td>
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<tr>
<td>PA2682</td>
<td>Late Breaking Abstract - Dynamic hyperinflation and ventilatory reserve in long COVID: a cross-sectional study</td>
<td>Isabela Aziz (Niteroi, Brazil), Isabela Serpa, Jessica Oliveira, Renan Campos, Thiago Mafot, Agnaldo Lopes</td>
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<tr>
<td>PA2683</td>
<td>Activity limitations and healthcare use in people with long COVID-19</td>
<td>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</td>
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<td>PA2684</td>
<td>Six-month outcomes following comprehensive pulmonary rehabilitation post-COVID-19 infection</td>
<td>Nurasyikin Kamarudin (Limerick, Ireland), Philip Tonge, Nicola Jackson, Sarah O'Beirne</td>
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<td>PA2685</td>
<td>Pulmonary telerehabilitation in patients after severe COVID-19: comparison between fully remote versus hybrid supervision</td>
<td>Bruna Scharlack Vian (Campinas, Brazil), Ana Lúcia Cavallaro Baraúna Lima, Lais Bacchin De Oliveira, Luciana Castilho De Figueirêdo, Hugo Ceccato, Julian Silva, Pedro Maximink Esteves Villar, Evelyn Regina Couto, Paulo Mendes, Lucieni De Oliveira Conterno, Mariângela Ribeiro Resende, Ligia Roceto Ratti, Mônica Corso Pereira</td>
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<td>PA2686</td>
<td>Quadriceps weakness pre- and post-COVID-19 rehabilitation: associations with exercise capacity and quality of life</td>
<td>George Mills (Leicester, United Kingdom), Linzy Houchen-Wolloff, Sally Singh, Samuel Briggs-Price, Enya Daynes</td>
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<tr>
<td>PA2687</td>
<td>The feasibility, safety, and repeatability, of the incremental shuttle walk test in post-COVID survivors</td>
<td>Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanj, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group</td>
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<tr>
<td>PA2688</td>
<td>The clinical outcome of patients with post Covid-19 condition who underwent pulmonary telerehabilitation in Lung Center of the Philippines</td>
<td>Nichol John Aliac (Manila, Philippines), Angelica Joy Arafag, Glynna Ong-Cabrera</td>
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<td>PA2689</td>
<td>Effect of telerehabilitation program with weekly monitoring in post-COVID-19 pneumonia patients</td>
<td>Wutthichai Sae Chen (Bangkok, Thailand), Chalermdje Prapinpairoj, Timporn Vitoonpong, Worawan Sirichana, Amornpun Wongkarnjana</td>
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<td>PA2690</td>
<td>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.</td>
<td>Janos Tamas Varga (Budapest, Hungary), Dora Kolozsvari, Renata Pinter, Katica Anna Kup, Zsofia Szarvas, Monika Fekete, Zsuzsanna Kovats, Gabor Horvath, Veronika Muller</td>
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<td>PA2691</td>
<td>Understand the role of Breathing Pattern Disorder in adults with and without breathlessness after hospitalisation with COVID-19</td>
<td>Saja Almulhim (Leicester, United Kingdom), Mark Orme, Enya Daynes, Majda Bakali, Sally J Singh, Rachael A Evans</td>
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<td>PA2692</td>
<td>Pulmonary rehabilitation (PR) and movement behaviours: How are we measuring up?</td>
<td>Mark Orme (Leicester, United Kingdom), James Manfield, Yousuf Chaudhry, Sally J Singh, Tom Ward, Maxine E Whelan</td>
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<td>PA2693</td>
<td>Exploring the characteristics of people with long COVID-19 and their associated healthcare use in Latin America</td>
<td>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</td>
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<td>PA2694</td>
<td>The prevalence of exertional desaturation 5 months post-hospital discharge for COVID-19</td>
<td>Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group</td>
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<tr>
<td>PA2695</td>
<td>Smartphone application-based rehabilitation in patients with chronic respiratory and cardiovascular diseases</td>
<td>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</td>
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<td>PA2696</td>
<td>Unsupervised physical capacity testing at home: a systematic review</td>
<td>Debbie de Graaf (Nijmegen, Netherlands), Stella Thissen, Alex Van 'T Hul, Nienke De Vries, Bastiaan Bloem</td>
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<td>PA2697</td>
<td>Monitoring of Long COVID symptoms using Digitalised C19-YRS in patients attending LC Rehabilitation Clinic in Manchester, UK</td>
<td>Hsu Myat Noe (Manchester, United Kingdom), Kay Richardson, Harmeet Momi, Christopher Dalton, Clare Gibbons, David Lamb, Sarah Clarke, Sheila Ramjug, Nawar Bakerly</td>
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<td>PA2701</td>
<td>FUT2 homozygous nonsense mutation is associated with increased future risks and airway microbial network disturbance in COPD</td>
<td>Longyi Du (Chengdu, China, China), Juanjuan Fu, Wei Xiao, Bin Mao, Meilu Liu, Xu-Gui Chen, Yan Yu</td>
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<td>PA2702</td>
<td>Lung stiffness affects the response to methacholine in two strains of mice</td>
<td>Andrés Rojas-Ruiz (Quebec, Canada), Magali Boucher, Percival Graham, Liah Fereydoonzad, Ynuk Bossé</td>
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<td>PA2703</td>
<td>Extracellular matrix degradation products in serum of patients with chronic airway disease</td>
<td>Anna Schnell (Bern, Switzerland), Stefanie Graeter, Moritz Saxenofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Stewart, Andrew Mckenzie, Ilka Schulze, Alexander Schuab</td>
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<td>PA2704</td>
<td>Human Upper Respiratory Tract Microbiome and Epithelium Interactions</td>
<td>Pooja Narang (Sydney, Australia), Mehra Haghhi, Catherine Burke, Brian Oliver</td>
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<td>PA2705</td>
<td>CYP2R1 gene polymorphisms (rs10741657) in Japanese patients with COPD and bronchial asthma.</td>
<td>Kazuhiro Tada (Koshigaya, Saitama, Japan), Kenya Koyama, Akemi Koyama, Shyuzo Abe, Tomoki Hasegawa, Junya Sato, Atsutaka Ozaki, Kozo Sato, Hajime Arifuku, Hiroyoshi Watanabe, Hideyuki Satoh, Hirokuni Hirata, Yasutsugu Fukushima</td>
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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 Sugitake, 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
Jinkyeeong 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 Anunziata

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 Mihaiucuta (Timisoara (Timis), Romania), Chenzhong Yin, Mihai Udrescu, Gaurav Gupta, Mingxi Cheng, Lucretia Udrescu, David M. Mannino, Andréi 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
Elmonahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko

Spirometry network: a program for the future
Mariana Cardoso Tavares (Guarda, Portugal), Filipa Fernandes, Élin Almeida, Filipa Jesus, Fernando Silva, Joana Ribeiro, Sara Braga, Luis 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 (Olomouc 9, Czech Republic), Jana Petrikova, 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 Kokelj, Linus Schiöler, Per Larson, Spela Kokelj, Linus Schiöler

Poster session: Paediatric viral and bacterial lung infections
Disease(s) : Airway diseases
Method(s) : Cell and molecular biology  Epidemiology  General respiratory patient care  Public health  Pulmonary function testing
Physiology  Imaging
Tag(s) : Clinical
Chairs : Marijke Proesmans (Leuven, Belgium), Livia Elena Brezeanu (Pucioasa, Romania)

PA2721 An urbanized metabolic and airway immune profile increases the risk of infections in early childhood
Nicklas Brustad (Gentofte, Denmark), Jonathan Thorsen, Mina Ali, Casper-Emil Pedersen, Julie Kyvsgaard, Jenni Lehtimäki, Jakob Stokholm, Klaus Bønnelykke, Bo Chawes

PA2722 Environmental risk factors for respiratory infection and wheeze in early childhood: a multi-centre cohort study
Tom Ruffles (hove, United Kingdom), Sarah Inglis, Anjum Memon, Paul Seddon, Kaninika Basu, Stephen Brenner, Heike Rabe, Roger Tavendale, Colin Palmer, Somnath Mukhopadhyay, Katy Fidler

PA2723 A prospective study of community-acquired lower respiratory tract infections during the first year of premature newborns

PA2724 Genotypic diversity and immune dysregulation in children with HRA(rhinovirus) infections __PRESENT __PRESENT
Adnan Zafar (Rawalpindi, Pakistan), Bandar Alosaimi, Asif Naeem

PA2725 The airway epithelium respiratory illnesses and allergy (AERIAL) birth cohort: viral exposure data within the first year of life
David Hancock (Nedlands, Australia), Stephen Stick, Elizabeth Starcevich

PA2726 Air pollutants exposure and risk of hospitalization due to RSV in Polish children
Artur Badyda (Warszawa, Poland), August Wrotek, Piotr Dąbrowiecki, Piotr Oskar Czechowski, Tomasz Owczarek, Teresa Jackowska

PA2727 Passive maternal anti-RSV immunization is influenced by the season of birth
Maria Giulia Conti (Roma, Italy), Leonardo Sorrentino, Lucia Lelli, Giorgio Fravolini, Eleonora Cresta, Laura Petrarcia, Enrica Mancino, Elio Iovine, Domenico La Regina, Fabrizio Virgili, Alessandra Pierangelii, Enea Bonci, Raffaella Nenna, Fabio Midulla

PA2728 Role and Diagnostic Performance of Host Epigenome in Respiratory Morbidity after RSV Infection
Sara Piscichella (Santiago de Compostela, Spain), Irene Rivero-Calle, Alberto Gómez-Carballa, Miriam Cebe-López, Ruth Barral-Arca, Jose Gómez-Rial, Jacobo Pardo-Seco, María José Curras-Tualá, Sandra Viz-Lasheras, Ana Belen Crujeiras, Angel Diaz-Lagares, Federico Martinón-Torres, Antonio Salas

PA2729 Monocyte-to-lymphocyte ratio and neutrophil-to-lymphocyte ratio as biomarkers for severity in hospitalized children with RSV bronchiolitis
Inbal Golan-Tripto (Beer sheva, Israel), Nitzan Burrack, Assaf Adar, Aviv Goldbart, Sarah Weismann, Bracha Cohen, Itai Hazan, Amir Horev

PA2730 Midlands empyema in paediatric: A UK multicentre retrospective case series review
Nicola Rowbotham (Nottingham (Nottinghamshire), United Kingdom), Anna Harris, Hetal Patel, Caroline Poulter, Heleane Vankuijk, Kamini Jain, Manisha Ramphul, Francis Gilchrist, Benjamin Davies, Andrew Prayle

PA2731 Evaluation of pulmonary function tests and predictors in necrotizing pneumonia

PA2732 Distinction Between Hemoptysis and Pseudohemoptysis; Cross-Sectional Retrospective Study
Yasemin Mocan Çağlar (İstanbul, Turkey), Gülay Bilgin, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi Tortop, Begüm Yörük, Özge Ülgen, Saniye Girit

PA2733 How do SARS-CoV-2 pandemic measures influence prevalence of respiratory viruses in healthy infants?
Ruth Steinberg (Bern, Switzerland), Simone Troxler, Anne-Christianne Kentgens, Léa Ho Duc, Marion Curdy, Sophie Yammine, Philipp Agyeman, Pascal Bittel, Philipp Latzin, Insa Korten, Bild Bild Study

PA2734 Spike specific salivary IgA2 is not induced or boosted by BNT162b2 vaccine in children
Maria Giulia Conti (Roma, Italy), Eva Piano Mortari, Raffaella Nenna, Alessandra Pierangelii, Leonardo Sorrentino, Fedreica Frasca, Laura Petrareca, Enrica Mancino, Greta Di Mattia, Luigi Matera, Matteo Fracella, Carolina Scagnolari, Rita Carsetti, Fabio Midulla

PA2735 Exercise capacity is preserved in children six months after COVID-19 infection.
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

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 Carwanta, Roshan A. Ananda, Priyadharshini Ramakrishnan, Tala J Alhejazi, Alyssa Chen, Amin Sharifan, Marie Wright, Nassr Nama

Late Breaking Abstract - Fibrinolytics use in children with pleural empyema Carmen Cornelia Maria de Jong (Stettlen, Switzerland), Ilja E Heijting, Peter J F M Merkus, Jolt Roukema, Lara S Van Den Wijngaart, Milanthy S Pourier

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 Dellaca, Pasquale P Pompilio, Giorgio Piacentini

Bronchodilator response cut-off -point of the FEV0.75 s in asthmatic Tunisian children. Molk MAALEJ (Sfax, Tunisia), Rim Kammoun, Emna Eleuch, Hana Trabelsi, Leila Triki, Hela Zouari, Kaouthar Masmoudi


Treatable traits in asthmatic children Magdalena Voces (Ciudad Autónoma Buenos Aires, Argentina), Gimena Donth Leger, Carlos Velasco, Tania Flores, Doris Primeroze, Marcela Roque, Veronica Giubergia, Veronica Aguerre, Belen Lucero, Gabriela Pelayo, 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, Oala Sardón-Prado, Paula Corcuera-Elosegui, Javier Korta-Murua, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D. Kraneveld, René Lutter, Anke H. Maitland-Van Der Zee

Children can be safely discharged on as required salbutamol after episodes of acute wheeze. 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 Corcuera-Elosegui, Mario Gorenjak, Susanne Harner, Anna M. Hedman, Michael Kabesch, Javier Korta-Murua, Aletta D. Kraneveld, Anne H. Neerincx, Maria Pino-Yanes, Uroš Potočnik, Shahriyar Shahbazi Khamas, Olaia Sardón-Prado, Mahmoud I. Abdel-Aziz, Anke H. Maitland-Van Der Zee

Reducing asthma exacerbations after the start of the school year: empowering children and families
Karl Holden (Liverpool, United Kingdom), Lynsey Brown, Victória Worrall, Claire Hepworth, Helen Harper, Lucy Gait, Laura Marsh, Andrew Lilley, Ian Sinha, Christopher Grime

Prospective follow-up of asthma and asthma-related quality of life into late adolescence after bronchiolitis in infancy.
Sonja Lattinen (Tampere, Finland), Eero Lauhkonen, 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 Dortop, Yasemin Mocan Çağlar, Begüm Yörük, Özge Ülgen, Sanıye Girit

Under-treated asthma in children – a nationwide secondary care study.
Jon Konradsen (Sollentuna, Sweden), Caroline Stridsman, Öyvind 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, Rammery Acuña Cordero, Paula Aguilera Otalvaro, Betty Camargo, Ricardo Aristizabal Duque, Carlos Rodriguez Martinez

Clinical variability of 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 Hammadi, Aghnas 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

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 Korelli, Carolina Constant, Silvia Castillo-Corullón, Ela Erpal, Claire Hogg, Cordula Koerner-Rettberg, Enrico Lombardi, Natalie Lorent, Vendula Martinu, Lucy Morgan, Kim Nielsen, Heymut Omran, Ugur Ozellic, Phil Robinson, Sandra Rovira-Amigo, Guillaume Thouvenin, Nicola Ullman, WoolF Walker, Panayiotis Yiallouros, 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, Micke Boon, Melissa Korelli, Claudia Calogero, Siobhán Carr, Carolina Constant, Silvia Castillo Corullón, Nagehan Emiralioğlu, Amanda Harris, Bulet Karadag, June Martin, Vendula Martinu, Lucy Morgan, Heymut Omran, Phil Robinson, Sandra Rovira-Amigo, Anne Schlegendahl, Guillaume Thouvenin, Panayiotis Yiallouros, Claudia Kuehni, Philipp Latzin, Nicole Beydon, Jane Lucas
Evaluating gene-disease relationships in motile ciliopathies: an international ClinGen and BEAT-PCD ERS CRC collaboration.

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Suzanne Crowley (Oslo, Norway), William Hankey, Marwa Elmagheeb, Rahma Mani, Maria-Ines Benito, Rasha Soliman, Mafalda De Almeida Gomes, Alexander Ing, Sabri Abdelwahab, Lindsay Worley, Shannon Menulty, Justine Siew, Courtney Lynn Thaxter, Catrina M Loucks, Simon Thomas, Maimoonah Zariwala, Margaret Leigh, Deborah Morris-Rosendahl, Ewa Ziętkiewicz, Sharon Dell, Ben Gaston, Bernd Dwormiczak, Robert Hirst, Johanna Raidt, Keith Nykamp, William Hannah, Mahmoud Fassad, Amelia Shoemark, Marie Legendre, Hannah Mitchison

PA2763

Genotype-phenotype associations in primary ciliary dyskinesia
Eva Sophie Lunde Pedersen (Bern, Switzerland), Myrofora Goutaki, Leonie D Schreck, Jane S Lucas, Claudia E Kuehni

PA2764

Physical activity in people with primary ciliary dyskinesia
Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Claudia E Kuehni

PA2765

Association between upper and lower respiratory disease in primary ciliary dyskinesia
Yin Ting Lam (Bern, Switzerland), Jean-François Papon, Mihaela Alexandru, Andreas Anagiotos, Miguel Armengot, Mieke Boon, Andrea Burgess, Doriane Calmes, Suzanne Crowley, Sinan Ahmed, D. Dheyaaldeen, Nagehan Emiralioglu, Ela Erdem Eralp, Christine Van Gogh, Eric G. Haarman, Amanda Harris, Isolde Hayn, Sara-Lynn Hool, Bülent Karadag, Céline Kempeneers, Sookyung Kim, Philipp Latzin, Natalie Lorent, Ugur Ozcelik, Ana Reula, Jobst Roehm el, Panayiotis Yiallouros, Myrofora Goutaki

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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-Maire, Nathalie Massin, Bernard Maître, Myrofora Goutaki, Claudia E Kuehni

PA2767

Neonatal problems of people with primary ciliary dyskinesia in Switzerland
Myrofora Goutaki (Bern, Switzerland), Mirjam Koller, Yin Ting Lam, Leonie D. Schreck, Eva S.L. Pedersen, Claudia E Kuehni

PA2768

Piloting the FOLLOW-PCD questionnaire: a clinical and research tool
Myrofora Goutaki (Bern, Switzerland), Yin Ting Lam, Jean-François Papon, Eva S.L. Pedersen, Claudia E. Kuehni

PA2769

A BEAT-PCD consensus statement: a core outcome set for pulmonary disease interventions in primary ciliary dyskinesia

PA2770

Impact of steroid and hydroxychloroquine treatment on chILD: A tertiary care experience
Beril Ecem Kiraci (Ankara, Turkey), Halime Nayir Buyukshahin, Nural Kiper, Nagehan Emiralioglu, Ugur Ozcelik, Deniz Dogru Ersoz, Ebru Yalcin

PA2771

The clinical and genetic spectrum of the interstitial lung diseases in infancy associated with surfactant protein disorders: A retrospective study
Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Halime Nayir Nuyuksahin, Birce Sunman, Ismail Guzelkas, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper

PA2772

Clinical characteristics and outcome of drug induced interstitial lund disease in pediatric population.
Mireia Vilella Sabate (Cambrils (Tarragona), Spain), Jordi Costa Colomer, Isabel Gascón Casaredi, Núria Ferrer Bosch, Maria Cols Roig

PA2773

Pediatric non-CF bronchiectasis in the Vinnytsia region in Ukraine - what can we do better?
OLEKSANDR MAZULOV (Vinnytsia, Ukraine), KATE KHROMYKH, OKSANA TYKHLAZ

PA2774

Multiple breath washout and imaging to detect early pulmonary toxicity in paediatric cancer patients and survivors: first results of a systematic review
Jakob Usemann (Basel, Switzerland), Christine Schneider, Christa Koenig, Enno Stranzinger, Maša Žarković, Claudia Kuehni, Christina Schindlera

PA2775

A comparison of management of primary spontaneous pneumothorax in children and adults
Lauren Blake (Cambridge, United Kingdom), Theofilos Polychronakis, Stefan Marciniak

PA2776

Impact of immunoprophylaxis with palivizumab on respiratory syncytial virus infection in preterm infants less than 35 weeks in Colombian hospitals
Alejandro Colmenares (Bogota, Colombia), Clara Galvis, Lina Cabrales, Linda Ibatá, Juliana Marulanda, Oscar Ovalle, Dionisio Puello, Catherine Rojas, Martha African, 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-Martínez

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

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

Successful implementation of Telehealth services in Respiratory nurse clinic-COPD
Maggie, Pik Kee Lit (Kowloon, Hong Kong), Kuen Han Lee, Fung Ting Mak, Pui Shan Chow, Yuen Hin Wong, Yiu Hei Chan, Wai Man Johnny Chan

Web-based intervention to increase physical activity in COPD patients: a pilot study
Ricardo Salgado (Lausanne, Switzerland), Philippe Delmas, Patrício Costa, Miguel Padilha

Routine monitoring with pleural manometry during thoracentesis in an Interventional Pulmonology Unit
Marta Navarro Colom (Barcelona, Spain), Laura Romero, Virginia Pajares, Albert Rafecas, Ana Pardessus, Alfons Torrego

Which digital solutions provide security, quality and safety for patients in Long Term Non Invasive Ventilation (LT-NIV)?
Bettina Pedersen (Faaborg, Denmark), Anne Dichmann Sorknæs, Hanne Svenningsen, Grete Bøgesvang, Britta Aaes

Analysis of the clinical effects of different nebulized inhalation devices on nurses' inhalation exposure
Qin Zeyu (Changchun (Jilin), China), Lin Hongjing

Nursing care of a pregnant woman with primary mediastinal large B-cell lymphoma complicated with airway stenosis
Yu Zhang (Beijing, China), Chunyan Zhang, Shuqin Wang, Bing Sun, Yanrui Jia

Usability of Emento Digital Care Guide: A personalized, self-guided, app-based intervention for patients with rare lung diseases
Nanna Vendelboe Gregersen (Aarhus N, Denmark), Vibeke Skivild, Birgit Refsgaard Iversen, Elisabeth Bendstrup

AmbuFlex – a telemedicine tool for improving patient pathways for patients with COPD?
Lene Brock Jakobsen (Viby J., Denmark), Birgit Refsgaard Iversen

Discharge management of high-risk COPD patients with remote wisdom
Hui-Wen Po (Douliou, Taiwan), Ying-Chien Chu, Hui-Zhen Cai

Intervention for improving sleep in patients with inflammatory bowel disease (IBD). Study protocol
Mónica Granados Martín (Madrid, Spain), Dania Rocío Díaz Rodríguez

Late Breaking Abstract - Effect of different form of upper limb muscles training on dyspnea in COPD
Marc Beaumont (Morlaix, France), Loïc Péran, Anne-Cécile Berriet, Catherine Le Ber, Eloïse Philippe, Emmanuelle Courtois-Communier, Francis Couturaud
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<td>PA2793</td>
<td>Late Breaking Abstract - Longitudinal follow-up in non-hospitalised individuals with post COVID-19 condition</td>
<td>Anna Törnberg (Bromma, Sweden), Annie Svensson, Anna Svensson-Raskh, Elisabeth Rydwik, Mikael Björnson, Michael Runold, Judith Bruchfeld, Malin Nygren-Bonnier</td>
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<td>PA2794</td>
<td>Late Breaking Abstract - Adult Primary Ciliary Dyskinesia (PCD) physiotherapy standards of care in England</td>
<td>Elizabeth Shepherd (Southampton, United Kingdom), Connie Webster, Stevie Peake</td>
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<td><strong>PS-15 in poster area</strong></td>
<td><strong>Session 288</strong></td>
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<td>Poster session: Epidemiological and public health aspects in tuberculosis</td>
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<td><strong>Method(s):</strong> Public health General respiratory patient care Imaging Epidemiology Pulmonary function testing</td>
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<td><strong>Chairs:</strong> Irina Kontsevaya (Borstel, Germany), Chair to be confirmed</td>
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<td>PA2795</td>
<td>Characteristics of Household Contacts of Rifampin and Multidrug-resistant Tuberculosis Cases at High Risk of Progression to Tuberculosis Disease in Vietnam.</td>
<td>Vicky Chang (Sydney (NSW), Australia), Thu-Anh Nguyen, Binh Nguyen, Nhung Nguyen, Greg Fox</td>
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<td>PA2797</td>
<td>Risk of tuberculosis after endoscopic resection in gastric cancer: nationwide population-based study</td>
<td>Hye Sung Khil (Seoul, Republic of Korea), Sue In Choi, Byung-Keun Kim, Eun Joo Lee, Sang Yeub Lee, Won Jai Jung</td>
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<td>Luigi Ruffo Codecasa (Milano (MI), Italy), Giulia Menotti, Maddalena Giglia, Marina Tadolini, Niccolò Riccardi, Mar Diop Yacine, Mamoudou Ndiaye, Giorgio Besozzi, Giovanni Sotgiu, Laura Saderi</td>
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<td>Post-TB lung disease: what can be learned from the past</td>
<td>Maria João Cavaco (Coimbra, Portugal), Sofia Alves, Luís Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Carla Janela, Natália André, Paula Raimundo, Teresa Falcão</td>
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<td>Development of a prognostic prediction model of death in new tuberculosis patients</td>
<td>Parichat Niyomthong (Pîrhat, Thailand), Arbaporn Prawan, Wikanda Udomdech, Thanan Chattrapiban</td>
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<td>Assessing patient satisfaction with Video-Observed Therapy (VOT) for drug-susceptible tuberculosis during the COVID-19 pandemic.</td>
<td>Sandra Ragheb (Calgary, Canada), Jinell White, Julie Jarand, Dina Fisher, Rachel Lim</td>
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<td>Frequency of serious adverse events on therapy with modified fully oral shorter treatment regimens (mSTR) for MDR/RR-TB</td>
<td>Elmira Gurbanova (Baku, Azerbaijan), Natalia Yatskevich, Askar Yedilbayev, Oleksandr Korotych, Arax Hovhannesyan, Maryna Tyshko, Nastassia Dankova, Alena Skrahina</td>
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<td>PA2804</td>
<td>Does pulmonary tuberculosis differ by gender?</td>
<td>Nemsi Ella (Tunis, Tunisia), Ben Jemia Emma, Chaabi Khouloud, Khedhiri Manel, Ben Attig Yosra, Ben Amar Jihene, Boudaya Sadok, Zaibi Haifa, Aouina Hichem</td>
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<td>Tuberculosis and HIV – the Lisbon reality</td>
<td>Helena Pires (Almada, Portugal), Joana Carvalho, Joana Diogo, Susana Carreira, Dalila Ferreira, Teresa Mourato, Luís Coelho</td>
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<td>Impact of war to treatment of tuberculosis: experience of Kharkiv, Ukraine</td>
<td>Olya Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Iryna Kalmykova, Hanna Buravel, Svitlana Tiahlo, Tetiana Synenko</td>
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<td>PA2807</td>
<td>Preventive treatment of latent tuberculosis infection: prevalence of adverse events among 23602 patients treated over the last 30 years at Villa Marelli in Milan.</td>
<td>Sarah Elizabeth O'Donnell (Milan, Italy), Gloria Leonardi, Federica Piedepalumbo, Maurizio Ferrarese, Alice Repossi, Marco Mantero, Pierachille Santus, Francesco Blasi, Luigi Ruffo Codecasa</td>
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<td>The burden of multi-drug resistant tuberculosis in the era of coronavirus disease 2019 pandemic in Pakistan: A public health threat of global concern</td>
<td>Muhammad Imran (Peshawar, Pakistan), Zafar Iqbal, Sajjad Khan, Khalid Jamal, Azhar Uddin, Shumaila Javaid, Abdul Ghafoor, Muhammad Salman Khan</td>
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<td>Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Maria Panescu, Valentina Espanu, Adriana Ioana Soret-Arbore</td>
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<td>Carina Rólo 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</td>
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<td>Prevention of tuberculosis among healthcare providers: reality of an endemic country</td>
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<td>Impact of COVID-19 pandemic and country of origin on tuberculosis treatment outcome in Greece</td>
<td>Foteni Gkakou (Thessaloniki, Greece), Maria Sionidou, Panagiota Kyreltsi, Athanasios Avramidis, Serafeim-Chrysovalantis Kotoulas, Marija Hadji-Mitrova, Eleni Papadaki, Giorgos Sakalis, Anna Tsakona, Katerina Manika</td>
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<td>PA2813</td>
<td>21st Century: Directly Observed Video-Therapy of Anti-Tuberculosis Treatment</td>
<td>Joana Catarina Batista Canadas (Rio Maior (District de Santarém), Portugal), Francisca Guimarães, Maria Cunha, Raquel Armingo, Joana Carvalho, Catarina Pissarra, Soledade Estribio, Paula Rosa</td>
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<td>PA2814</td>
<td>The impact of the COVID-19 pandemic on tuberculosis detection in Tashkent, Uzbekistan</td>
<td>Ruzilya Usmanova (Tashkent, Uzbekistan), Nargiza Parpieva, Irina Liverko, Ilhomjon Butabekov, Yuliya Dolgusheva, Revaz Kokhodze, Mahilyo Muhamedova, Sharofiddin Yuldashev, Hasan Safayev</td>
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**PS-16 in poster area**

Session 289  **12:30 - 14:00**

**Poster session: Viral infections and antibiotic use**

- **Disease(s):** Airway diseases
- **Method(s):** Epidemiology, General respiratory patient care, Public health, Cell and molecular biology, Endoscopy and interventional pulmonology, Respiratory intensive care
- **Tag(s):** Clinical
- **Chairs:** Chair to be confirmed

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<td>RSV as a Cause of Exacerbations of COPD</td>
<td>Dexter Wiseman (London, United Kingdom), Ryan Thwaites, Mairi Macleod, Andrew Ritchie, Lydia Finney, Faisal Kamal, Hasan Shahbakhti, Ashley Sanchez Sevilla Uruchurtu, Braddy-Green Aaron, James Allinson, Gavin Donaldson, Peter Openshaw, Jadwiga Wedzicha, The Rescue Investigators</td>
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<td>PA2816</td>
<td>Disruption in typical patterns of seasonality of respiratory viral infections (RVIs)</td>
<td>Martha Purcell (Southampton, United Kingdom), Tommaso Morelli, Pedro Rodrigues, Sandy Aitken, Charles Roberts, Jacqueline Nuttall, Anna Freeman, Tristan Clark, Tom Wilkinson</td>
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<td>PA2817</td>
<td>A novel rhinovirus mRNA vaccine induces humoral and cellular immunity, providing protection against heterotypic rhinovirus infection</td>
<td>Chloe Julia Pyle (London, United Kingdom), Neeta D Patel, Paul Hamblin, Richard Butt, Michael R Edwards, Stephen Shaw, Sebastian L Johnston</td>
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<td>PA2818</td>
<td>LSC - 2023 - Iron metabolism determines the outcome of influenza A virus infection</td>
<td>Jemima 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</td>
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<td>PA2819</td>
<td>Estimated incidence of hospitalizations and primary visits attributable to RSV infections in adults in Germany between 2015 – 2019</td>
<td>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, Bradförd Gessner, Gernot Rohde</td>
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<td>PA2820</td>
<td>Association between clinical presentation and a host transcriptomic signature in patients with lower respiratory tract infection undergoing bronchoscopy</td>
<td>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</td>
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<td>PA2821</td>
<td>Characterisation of clinical risk factors for severity and outcome in adults hospitalised with respiratory viral infection (RVI): the UNIVERSAL study.</td>
<td>Tommaso Morelli (Southampton, United Kingdom), Martha Purcell, Pedro Rodrigues, Sandra Aitken, Charles Roberts, Jacqueline Nuttall, Tristan Clark, Anna Freeman, Tom Wilkinson</td>
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<td>PA2822</td>
<td>Changes in the epidemiology of severe acute respiratory virus infection in the elderly after social distancing was lifted</td>
<td>Jae Jeong Shim (Seoul, Republic of Korea), Hye Sun Lee, Juyeong Yang, Je Hyeong Kim, Sung Won Chang, Kyung Hoon Min, Young Seok Lee</td>
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INNA-051 pre-exposure prophylaxis in a human influenza infection model
Ruth Tal-Singer (Media, United States), Scott White, Francesca Mercuri, Nicole Kruger, Grant Mclachlan, Stephan Mynhardt, Hayley Mcquilton, Bruce Miller, Christophe Demaison

Real-world primary care data of antibiotic prescriptions for sore throat in Italy
Graça Coutinho (London, United Kingdom), Aurelio Sessa, Adrian Shepard, Thomas Hallett, Martin Duerden

Medical practices that create risks for the development of antibacterial resistance
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova, Farhod Mukhsinov

Savings potential for antibiotics in respiratory infections: Insights from the European market
Peter Kardos (Frankfurt am Main, Germany), Ludger Klimek, Ernest Kuchar, Ingrid Stelzmüller, Andrzej M Fal, André Gessner

Inflammatory and mucociliary dysfunction based endotypes across the spectrum of chronic airways diseases
Erin Cant (Dundee, United Kingdom), Mathieu Bottier, Morven Shuttleworth, Jamie Stobo, Lidia Perea, Alison Dicker, Holly R Keir, Megan L Crichton, Jeffrey Huang, Amelia Shoemark, James D Chalmers

Respiratory infection with multidrug resistant organisms is more often in men than women - a retrospective, multicenter study
Cathrin Kodde (Berlin, Germany), Juliane Köhler, Karin Schwegmann, Marzia Bonsignore, Irit Nachtigall

Predictive factors for a good pulmonary penetration of antibiotics: AntiBiotics dosage in BronchoAlveolar Lavage
Julia Delomez (Neuvillette, France), Alice Henry, Damien Basille, Vincent Jounieaux, Claire Andréjak

Detection of respiratory viruses in patients with aspiration pneumonia: a retrospective study
Daijiro Nabeya (Okinawa, Japan), Takeshi Kinjo, Wakako Arakaki, Wakaki Kami, Hiroe 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 Shivachko, Mark Berry, Eunyoung Lee, Gina Brown, Mazin Abdelghany, Jason Okulicz, Celine Der-Torossian, Anand Chokkalingam

Dipeptidyl peptidase-1 inhibition in bronchiectasis with eosinophilic endotype in the WILLOW trial
James D. Chalmers (Dundee (Angus), United Kingdom), Mark L Metersky, Ariel Teper, Carlos Fernandez, Sebastian Fucille, Melanie Lauterio, Roald Van Der Laan, Andreas Maes, Michael R Loebinger

Safety, tolerability, pharmacokinetics(PK) and pharmacodynamics(PD) of HSK31858a novel DPP-1 inhibitor in healthy volunteersa phase I clinical trial
Weijie Guan (Guangzhou (Guangdong), China), Jie Hou, 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, Lieve Kamphuis, Marleen Bakker, Alain Dubois, Joachim Aerts, Menno Van Der Eerden

Impact of hypertonic agents on the solid’s concentration in patients with bronchiectasis. A post-hoc analysis
Victoria Serrano (vilafranca del penedes, Spain), Héctor Sanz-Fraile, Antoni Torres, Beatriz Herrero-Cortina
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<td>Nebulised Meropenem for prevention of Bronchiectasis Exacerbation</td>
<td>Itikhar Nadeem (Lode, Cambridge, United Kingdom), Tejas Ingle, Masood Ur Rasool, Noor Mahdi, Syed Ata Ul Munamm, Bobbak Rabiei, Raaga Vijayarathiy, Duncan Grady, Sumita Pai, Dorothy Grogono</td>
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<td>PA2840</td>
<td>Real-world use of the BEST score for IV antibiotic courses in bronchiectasis</td>
<td>Philip Mitchelmore (Kenton, United Kingdom), Hilary Mortimer, Helen Dunning, Kathryn Thomson, Laura Childs, Aye Khin, Hannah Thould</td>
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<td>PA2841</td>
<td>Pseudomonas aeruginosa eradication (PAE) in bronchiectasis (BE) with oral ciprofloxacin treatment (OC)</td>
<td>Letizia Traversi (Cittiglio, Italy), Maria Teresa Gomez-Martin Martín-Gómez, Daniel Romero, Almudena Felipe, Clara Pons, Antonio Alvarez, Ianire Gallego, Eva Polverino</td>
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<td>PA2842</td>
<td>Retrospective review of treatment approaches for Pseudomonas aeruginosa infections in patients with Primary Ciliary Dyskinesia: Insights from a Danish cohort</td>
<td>Mathias G. Holgersen (Copenhagen, Denmark), Frederik T. Sondergaard, June K. Marthin, Helle K. Johansen, Kim G. Nielsen</td>
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<td>Pseudomonas aeruginosa eradication in patients with bronchiectasis: data from the EMBARC registry</td>
<td>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</td>
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<td>The efficacy and safety of inhaled antibiotics for the treatment of bronchiectasis in adults: updated systematic review and meta-analysis</td>
<td>Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Hayoung Choi, Charles S. Haworth, James D. Chalmers</td>
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<td>Healthcare costs and resources utilization in patients with bronchiectasis compared to matched cohorts with asthma and COPD: a population-based cohort study</td>
<td>MARTA NADALIN (Monza, Italy), Raffaella Ronco, Matteo Monzio Compagnoni, Fabrizio Luppi, Giovanni Corrao, Paola Favero</td>
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<td>PA2846</td>
<td>A citizen phase library for respiratory infection</td>
<td>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</td>
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<td>Related factors to non-invasive ventilation in patients with acute bronchiectasis exacerbation</td>
<td>Mariem Friha (Ariana, Tunisia), Ines Moussa, Hana Mrassi, Sarra Ben Sassi, Sarra Trimech, Chirine Zaier, Imen Sahnoun, Leila Douik Elgharbi</td>
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<td>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</td>
<td>Pia Ghosh (Stockholm, Sweden), Malin Sande, James D. Chalmers, Apostolos Bossios</td>
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<td>PA2849</td>
<td>Microbiology in inhaled antibiotic users with bronchiectasis: Data from the European Bronchiectasis Registry (EMBARC)</td>
<td>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</td>
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<td>Long-term High flow nasal cannula therapy in bronchiectasis</td>
<td>Francesca Simioli (Napoli (NA), Italy), Anna Annunziata, Pasquale Imitazione, Antonietta Coppola, Rosa Cauteruccio, Francesco De Simone, Giuseppe Fiorentino</td>
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<td>PA2851</td>
<td>Efficacy of Inhaled tobramycin in adult patients with bronchiectasis and P. aeruginosa in sputum: a prospective observational study</td>
<td>Chryssyavi Kosti (Gerakas, Greece), Antonia Digalaki, Andreas Matthaiou, Sofia Koukidou, Emmanouela Zervou, Aikaterini-Ioanna Sakellaropoulou, Ioannis Roussis, Serafeim Chrysikos, Georgios Hillas, Katerina Dimakou</td>
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<td>PA2852</td>
<td>Study design of a Phase 2 rollover trial of the novel cathepsin C inhibitor BI 1291583 in patients with bronchiectasis</td>
<td>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</td>
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<td>A single-centre audit of specialist Bronchiectasis care and outcomes at 12 months</td>
<td>Georgia Tooth (Cambridge, United Kingdom), Shauna Hanrahan, Victoria Monson, Dorothy Grogono</td>
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<td>Fibrinogen and fractional exhaled nitric oxide as potential markers of lung functional impairment in clinically stable non-cystic fibrosis bronchiectasis</td>
<td>Nikoleta Bizym (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Pitsidianakis, Katerina M. Antoniou, Nikolaos Tzanakis</td>
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Poster session: The global lung cancer epidemic: diversity, social inequalities, and survivorship

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

**Method(s):** Epidemiology, Public health, Pulmonary function testing, Palliative care

**Tag(s):** Clinical

**Chairs:** Ilona Tietzova (Prague, Czech Republic), Chair to be confirmed

**PA2855**
Real-World treatment outcomes for advanced NSCLC in Greece
Andriani Charpidou (Athens, Greece), Eleni Kokkotou, Lamprini Stournara, Maria Mani, Ioannis Gkiozos, Sofia Tsagouli, Nikolaos Syrigos, Thomas Burke, Andreas Desiniotis, Ioannis Dimitriadi

**PA2856**
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

**PA2857**
Lung Cancer Awareness in Saudi Arabia: Results of an Interim Analysis
Jaber S. Alqahtani (Dammam, Saudi Arabia), Bader S. Almqati, Turki G. Alharbi, Abdelraheem A. Almuntashiri

**PA2858**
Histologic Lung Cancer 5-Year Survival Rates and Trends Vary by Tumor Stage and Residential County: 1990-2013
Surveillance, Epidemiology, and End Results (SEER)
Bingbing Wang (Shanghai, China), Shuanshuan Xie, Changhui Wang

**PA2859**
The changing face of lung cancer epidemiology in Greece
Danai Bisirtzoglou (Athens, Greece), Georgia Hardavella, Eleni Karetsi, Kelly Miziou, Gerasimos Metaxas, Christos Raptis, Dina Broupi, Ioannis Gkiozos

**PA2860**
REAL-WORLD DATA ON LUNG CANCER PATIENTS CHARACTERISTICS IN NORTHERN SERBIAN PROVINCE OF VOJvodina
Darijo Bokan (Sremska Kamenica, Republic of Serbia), Bojan Zaric, Tomi Kovacevic, Goran Stojanovic, Jelena Djekic, Ana Milenkovic

**PA2861**
Epidemiological and histopathological features of lung cancer in Tunisia
Moez Hamdani (Djerba, Tunisia), Marwa Walha, Sana Hidouri, Kamel Bel Haj Ali, Abdelmajid Khabir

**PA2862**
Clinical characteristics and outcomes of lung cancer patients in a Tunisian center
Amani Kacem (Sousse, Tunisia), Jihene Ghariani, Imen Kherrat, Anis Maatallah, Rahma Ben Jazia, Hend Zorgati, Yosri Benali, Dhouha Benjellou, Sourour Belhaj Kaddour, Jihene Ayachi, Asma Gaddour

**PA2863**
Sociodemographic and clinical characteristics associated with lung cancer in women
Anna Trojan (Warszawa, Poland), Magdalena Knetki-Wróblewska, Joanna Domagała-Kulawik

**PA2864**
Characteristics of lung cancers in elderly patients.
Rim Khemakhem (Sfax, Tunisia), Mounira Kallel, Nessrine Kallel, Rahma Gargouri, Ilhem Yangui, Nedia Moussa, Walid Feki, Najla Bahloul, Samy Kammoun

**PA2865**
COPD and lung cancer: Is there a link?
Houda Rouis (Ariana, Tunisia), Chrine Moussa, Mahdi Abdennadher, Soumaya Debiche, Nourchene Khalfallah, Amel Khattab, Ibtilhel Khouaja, Ines Zendah, Sonia Maâlej

**PA2866**
Does lung cancer in patients with COPD differ between women and men?
Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagała-Kulawik

**PA2867**
COPD occurrence among thousand of patients with lung tumor
Robert Uliński (Warsaw, Poland), Marta Dąbrowska, Joanna Domagała-Kulawik

**PA2868**
Lung cancer in COPD patients included in a telemonitoring program (TELEPOC)
Jone Solorzano Eguiribe (bilbao, Spain), Eva Tabernero Huguet, Mª Pilar Fuenteetaja Olmos, Mª Ángeles García Carreira, Imanol González Muñoz, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz González Quero, Larraitz García Echeberria

**PA2869**
Employment status at time of lung cancer diagnosis: A nationwide study 1994-2018
Morten Borg (Ry, Denmark), Ditte Fredensborg Søltoft, Ole Hilberg, Anders Løkke

**PA2870**
Is death from lung cancer associated with socioeconomic development? Turkey sample
Güntülü Ak (Eskişehir, Turkey), Selma Metintas, Oguz Han Aydilek, Muzaffer Metintas

**PA2871**
Long-Term Lung Cancer Survivors – Who are they and what happens throughout their follow up?
Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Mariana Antunes, Margarida Dias, 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 Frosstrup Hansen, Rikke Ibsen, Ole Hilberg, Anders Lokke

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 Belakhkhal, L Abouselham L, H Hachri H, I El Menchay, Samira El Fakir, Mohammed Berraho, Nadia Benchekroun, Nabil Tachfouti

Extended abstracts
PA2874 Continued nintedanib treatment in patients with progressive pulmonary fibrosis: data from INBUILD-ON
Wim A. Wuyts (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozerkis, Jin Woo Song, Corinna Miede, Mihaela Dumistracel, Carl Cioeck, Vincent Cottin

PA2875 Meta-analysis of effect of nintedanib on mortality in subjects with idiopathic pulmonary fibrosis (IPF) and other forms of progressive pulmonary fibrosis (PPF)
Wim A. Wuyts (Leuven, Belgium), Toby M Maher, Marlies Wijseenbeek, Dirk Koschel, Fernando J Martinez, Wibke Stansens, Susanne Stowasser, Luca Richelidi

PA2876 Adverse Effects of Nintedanib – A Portent of Gender Inequality?
Dominic Sykes (Hull, United Kingdom), Ellis Day, Kayainaat Ibrar, Amanda Bell, Mark Major, Alynn H Morice, Simon P Hart

PA2877 Real-World Safety and Effectiveness of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis
Arata Azuma (Kawasaki, Japan), Takashi Ogura, Yoshikazu Inoue, Yasuhiro Kondoh, Sakae Homma, Katsumi Tanaka, Kaori Ochiai, Kenya Muraiski, Yukihiko Sugiyama, Toshihiro Nukiwa

PA2878 Nocebo effect of nintedanib on gastrointestinal (GI) adverse events (AEs) in patients with interstitial lung diseases (ILDs)
Oliver Distler (Zurich, Switzerland), Kristin B Highland, Arata Azuma, Tejaswini Kulkarni, Wim A Wuyts, Corinna Miede, Margarida Alves, Petros Sfikakis

PA2879 Effects of nintedanib on circulating biomarkers in patients with progressive pulmonary fibrosis: subgroups by fibrotic pattern on HRCT
Toby M Maher (Los Angeles, United States), Francesco Bonella, Shervin Assassi, Imre Noth, Claudia Diefenbach, Carina Ittrich, Klaus B Rohr, Martin Kolb

PA2880 Impact of antifibrotic therapy on lung cancer incidence and mortality in patients with idiopathic pulmonary fibrosis
Yong Suk Jo (Seoul, Republic of Korea), Kyung Joo Kim, Chin Kook Rhee, Yong Hyun Kim

PA2881 Antifibrotic treatment in patients with Idiopathic pulmonary fibrosis (IPF): Real life data from a Swedish registry
Lisa Carlson (Stockholm, Sweden), Dimitrios Kalafatis, Ida Pesonen, Jesper Magnusson, Magnus Skold

PA2882 Characteristics of patients with progressive fibrosing ILDs in the ILD-PRO Registry
Leonard Lobo (Chapel Hill, United States), Yi Liu, Peide Li, Murali Ramaswamy, Aparna C Swaminathan, Srihari Veeraraghavan, Yannm Fan, Megan L Neely, Scott M Palmer, Amy L Olson

PA2883 Progressive pulmonary fibrosis in patients with chronic hypersensitivity pneumonitis (CHP): a single center experience.
Julia Wålischer (Essen, Germany), Ulrich Costabel, Dirk Theegarten, Eda Boerner, Lutz Jehn, Christian Taube, Francesco Bonella

PA2884 Comparison of the diagnostic criteria for progressive pulmonary fibrosis in connective tissue disease related interstitial lung disease
Hyunwoo Kim (Seoul, Republic of Korea), Kyuhwan Kim, Jongmin Lee, Yong Suk Jo

PA2885 Interobserver variability of the ATS/ERS/JRS/ALAT diagnostic CT criteria for idiopathic pulmonary fibrosis: a systematic review and meta-analysis
Krit Dwivedi (Sheffield, United Kingdom), Liam Delaney, Samer Alabeled, 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, Tomoaki Hoshino, Yosuke Sasahara, Kazuhiro Yatera, Masayuki Kawasaki, Masaki Fujita, Makoto Yoshida, Takashiige Maejima, Taishi Harada, Hiroshi Wataya, Chiharu Yoshii, Masashi Komori, Yuichi Mizuta, Kazunori Tobino, Eiji Harada, Yoichi Nakaniishi, 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
Tzil Hershko (Tel-Aviv, Israel), Sonia Schneer, Michael J. Segel, Ori Wand, Ophir Freund, Amir Bar-Shai, David Shitrit, Liran Levy, Yochai Adir, Avraham Unterman

Idiopathic pulmonary fibrosis treated by Nintedanib: evaluation of safety even in patients treated with anticoagulants
Barbara Riaro (Trieste, Italy), Riccardo Pozzan, Paola Confalonieri, Metka Kodric, Rossella Cifaldi, Mariangela Barbieri, Selene Lerda, Marco Confalonieri, 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

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 Tinti, Martina Vettoretti

Causes of failed smoking cessation attempts among active smokers.
Fatha Bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane

A machine learning-driven approach to improve patient-centered care in pulmonary fibrosis
Jiwon Jung (Rotterdam, Netherlands), Rembrandt Oltmans, Ruixuan Zhang, Joke Hendriks, Richard Goossens, Marlies Wijnenbeek

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 progression 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), Mônica Grafino, Ana Lutas, Teresa Pequito, Ricardo Ribeiro, Herminia Dias, Sofia Furtado
PA2900  Evolution of patient perception and use of home spirometry over time
Karen Parsons (Oxford, United Kingdom), Carmine Ruggiero, Shakila Hussain, Michael Avoseh, Emily Fraser, Ling-Fei Ho, Peter Saunders, Rachel K. Hoyles

PA2901  Development of an optimal machine learning model to detect features of wheezing in children
Kyunghoon Kim (Seoul, Republic of Korea), Hye Jeong Moon, Baek Seung Kim

PA2902  Feasibility and Safety of Oxygen Saturation Telemonitoring in Covid-19: an observational study
Jacopo Simonetti (Rome, Italy), Francesco Lombardi, Luca Richiedi

PA2903  Ballistocardiographic pad for detection of heart rate in respiratory diseases.
Vratislav Sedlák (Hradec Králové 9, Czech Republic), Filip Studněčka, Radovan Sedlák

PA2904  Literature-mining in research of Post-Acute Sequelae of Covid-19
Kristina Piontkovskaya (Stockholm, Sweden), Li Chuan-Xing, Yulian Luo, Michael Runold, Ása Maria Wheelock

PA2905  Environmental impact of a CF virtual clinic
David Green (Manchester, United Kingdom), Thomas Fitzmaurice, Miles Eason, Freddy Frost, Dilip Nazareth, Martin Walshaw

PA2906  Access to health care is a human right: a focus group study in COPD patients regarding eHealth accessibility
Esther I. Metting (Groningen, Netherlands)

PA2907  Development of the iRECHARGE web application (app) for Pulmonary Rehabilitation (PR) in India using Design Thinking Process (DTP)
Shruti Sahasrabudhe (Pune (Maharashtra), India), Rashmi Padhye, Mark W Orme, Dipali Dhamdhere, Suryakant Borade, Meenakshi Bhakare, Nagesh Dhadge, Mahavir Mod, Zahira Ahmed, Andy Barton, Sundeep Salvi, Sally J Singh

PA2908  A wearable system for personal air pollution exposure: a walk-about in Milan
Sara Bernsonaci (Varese, Italy), Alessandra Angelucci, Andrea Rossi, Andrea Aliverti

PA2909  The use of digital web-based video training for correct inhalation technique during the COVID-19 pandemic
Maximilian Wollsching-Strobel (Köln, Germany), Uta Butt, Daniel Majorski, Tim Mathes, Friederike Magnet, Doreen Kroppen, Melanie Berger, Sarah Schwarz, Wolfram Windisch

PA2910  Transforming Irish health care delivery through digital health technology with a global orientation – through the perspective lens of the service user
Tara Byrne (Ballinasloe (County Longford), Ireland), Niall Murray, Mary Mc Donnell-Naughton, Neil Rowan

PA2911  APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE: ANALYSIS OF ANDROID MARKETPLACE
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy

PA2912  QUALITY OF ANDROID APPS FOR COPD AND ASTHMA PATIENTS IN UKRAINE
Mariia Tsyben (Vinnytsya, Ukraine), Stanislav Shkondin, Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy

PA2913  HHT Virtual Imaging Case Conferences - A New Way Forward for Rare Disease Management
Dilini Vethanayagam (Edmonton (AB), Canada), Richard Owen, Hugo Bertozzi, Darshan Bakshi, Rohan Parab, Ani Mirakhar, Oliver Halliwell, Charlene Fell

PS-20 in poster area  Session 294  12:30 - 14:00
Poster session: Multidisciplinary approach for interstitial lung disease of known cause
Disease(s): Interstitial lung diseases
Method(s): Imaging  Epidemiology  Endoscopy and interventional pulmonology  General respiratory patient care  Pulmonary function testing  Physiology
Tag(s): Clinical
Chairs: Claudia Ravaglia (Forlì, Italy), Chair to be confirmed

PA2914  Prediction of mortality in SSc-ILD depends on definition of ILD progression
Anna Maria Hoffmann-Vold (Oslo, Norway), Liubov Petelytskab, Håvard Fretheim, Imon Barua, Mike Becker, Hilde Bjørkjejkjær, Cathrine Brurongb, Cosimo Bruni, Phuong Phuong Diep, Rucsandra Dobrota, Michael Durheim, Muriel Elhai, Suzana Jordan, Emily Langballe, Øyvind Midtveld, Carina Mihai, Øyvind Molberg, Oliver Distler

PA2915  Automatized quantification and progressive evaluation of SSc-ILD: a perspective from the PROFILE.net ERS Clinical Research Collaboration
Julien Guiot (Liège, Belgium), Fanny Gester, Monique Henket, Benoit Ernst, Simon Van Eyndhoven, Jelle Praet, Dirk Smeets, Clio Ribbens, Beatrice André, Renaud Louis
PA2916  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 Patruene

PA2917  LUNG ULTRASONOGRAPHY HELPS RULE OUT INTERSTITIAL LUNG DISEASE IN PATIENTS WITH RHEUMATOID ARTHRITIS.
Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Marcos Rosemflet, Jonathan Balcazar, Miguel Perandones, Paola Orauscio, Tomas Cazenave, Santiago Rossi, Sebastian Marciano, Emilce Schneeberger, Gustavo Citera

PA2918  Forced oscillation technique in progressive pulmonary fibrosis
Anna Denis (Liège, Belgium), Monique Henket, Hadrien Gillet, Laurie Giltay, Fanny Gester, Renaud Louis, Julien Guiot

PA2919  Transbronchial lung cryobiopsy for the diagnosis of Fibrotic Hypersensitivity Pneumonitis
Pedro Magalhães Ferreira (Vila Nova de Gaia (District of Porto), Portugal), Francisco Machado, Hélder Novaïs-Bastos, Natália Melo, André Terras Alexandre, Patricia Caetano Mota, Susana Guimarães, Conceição Souto-Moura, André Carvalho, António Morais

PA2920  Pulmonary 18F-FDG up-take refines current risk stratification in non-specific interstitial pneumonitis (NSIP) and predicts response to treatment.
Sharenja Ratnakumar (London, United Kingdom), Hannah Torlot, Thida Win, Balaji Ganeshan, Nick Screaton, Toby Maher, Francesca Fraioli, Raymond Endozo, Robert Shortman, Ashley Groves, Joanna Porter

PA2921  Lung ultrasonographic findings and oxygen desaturation as markers of severity in diffuse parenchymal lung diseases
Ahmed Sadaka (Alexandria, Egypt), Asmaa Gomaa, Hoda Abdelgawad, Hanaa Shafiek, Eman Hatata, Nashwa Abdelwahab

PA2922  Diagnostic value of transbronchial cryobiopsy in patients with suspicion of pulmonary graft-versus-host disease after allogeneic hematopoietic cell transplantation
Katrin Esther Hostettler (Basel, Switzerland), Kathleen Jahn, Joerg Halter, Andrei Darie, Daiana Stolz, Lukas Bubendorf, Christian Arranto, Jakob Passweg, David Winkel, Maurice Pradella, Spasenija Savic Prince, Michael Tamm

PA2923  Pulmonary function in Thai patients with systemic sclerosis; a single center 6-year retrospective study
Thitisak Sakulvorakitti (Pathumthani, Thailand), Pattarin Pirompanich

PA2924  Long term evaluation of pulmonary function in systemic sclerosis associated interstitial lung disease (SSc-ILD)
Daniela Stefanca Gologanu (Bucuresti (Sector 1), Romania), Marius Cotet, Simona Caraiola, Alina Dima, Daniela Popescu, Magda Parvu, Razvan Ionescu, Cristian Baicuş, Valentin Nedelcu, Ion Ion, Marius Balea

PA2925  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 Părău, Valer Pompilian, Doina Niţescu, Simona Caraiola, Răzvan Ionescu, Camelia Badea, Larisa Pinte, Cristian-Răsvan Băicuş

PA2926  Overt and covert airflow limitations in DPLD: a spirometric appraisal
Sayanti Karmakar (KOLKATA, India), Sayoni Sengupta, Avishek Kar, Debkanya Dey, Shuvam Ghosh, Dipanjan Saha, Arindam Mukherjee, Parthasarathi Bhattacharya

PA2927  Evaluation of lung function referral and testing in the context of Interstitial Lung Disease (ILD).
Calvin Apen (Doncaster (South Yorkshire), United Kingdom), Muhammad Khan

PA2928  Diagnostic performance of the hypersensitivity pneumonitis guidelines in a real-life multicenter cohort
Avraham Unterman (Tel Aviv, Israel), Ophir Freund, Yitzhac Hadad, Tamar Shalmon, Ori Wand, Sonia Schner, Tal Moshe Perluk, Eyal Kleinhendler, Tzilil Hershko, Boaz Tiran, Evgeni Gershman, Yochai Adir, David Shitrit, Amir Bar-Shai

PA2929  Clinical characteristics and changes in pulmonary function tests of rheumatoid arthritis-associated lung diseases: A 10-year retrospective study from a tertiary referral center in Southern Thailand
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong, Nunthamon Wonghirundecha, Sarayut Lucien Geater

PA2930  Radiological features of myositis-related ILD and implications for disease course
Cara M Gill (Dublin, Ireland), Brian Gaffney, Brian Sheehy, Marissa O’Callaghan, Leah Rooney, Eamonn Molloy, Jonathan D Dodd, David J Murphy, Emmet Mc Grath, Michael P Keane, Cormac Mc Carthy

PA2931  Multidisciplinary collaboration for correct diagnosis and correct treatment in interstitial lung disease associated with connective tissue diseases
Nesrin Öcal (Ankara, Turkey), Emre Tekgöz, Seda Çolak, Ezgi Çimen Güneş, Deniz Doğan, Muhammet Çinar, Yakup Arslan, Cantürk Taşçı

PA2932  Management of connective tissue disease related interstitial lung diseases in a district general hospital.
Alex Francioni (Luton, United Kingdom), Natasha Ramsundar, Muhammad Nisar, Vijay Joshi, Judeson Gnanapragasam
### Poster session: Long-term home ventilatory support: goals and outcomes

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

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

**Tag(s):**  
Clinical

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Chloé Cantero (Paris, France)

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<td>PA2934</td>
<td>Long-term health-related quality of life in patients on home mechanical ventilation</td>
<td>Carla Ribeiro (Vila Nova de Gaia, Portugal), Cristina Jácome, Luisa Castro, Sara Conde, Wolfram Windisch, Rui Nunes</td>
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<td>PA2935</td>
<td>German Version of the S3-NIV Questionnaire - Translation, Cultural adaptation and Validation of a simple tool for the assessment of home noninvasive ventilation</td>
<td>Daniel Majorski (Cologne, Germany), Axel Kuck, Doreen Kroppen, Sarah Schwarz, Maximilian Wollsching-Strobel, Friederike Magnet, Tim Mathes, Wolfram Windisch</td>
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<td>PA2936</td>
<td>Perceived health-related benefits and side effects of long-term Home Mechanical Ventilation in an outpatient setting</td>
<td>Diana Amorim (Maia, Portugal), Leonor Roseta, Cristina Jaome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro</td>
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<td>PA2937</td>
<td>Understanding the outcomes that matter to Patients and what influences these: An International Survey of Patients Treated by Home Mechanical ventilation (HMV)</td>
<td>Cecile Delval (Paris, France), Judith Livingston, Manuella Schaller</td>
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<td>PA2938</td>
<td>Patients' perception of home mechanical ventilation benefits and side effects: does disease play a role?</td>
<td>Leonor Roseta (Calvão – Vagos, Portugal), Diana Amorim, Cristina Jácome, Pedro Oliveira, Daniela Ferreira, Carla Nogueira, Sara Conde, Rui Nunes, Carla Ribeiro</td>
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<td>PA2939</td>
<td>Cardiomyopathy as cause of death in Duchenne muscular dystrophy – a longitudinal observational study</td>
<td>Joël Julien Herzig (Zürich, Switzerland), Annabel Lechner, Jacqueline Gabriela Kientsch, Silvia Ulrich, Esther Irene Schwarz</td>
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<td>PA2940</td>
<td>Survival of multiple sclerosis patients requiring positive airway pressure and/or mechanical insufflation-exsufflation.</td>
<td>Anastasia Krompa (London, United Kingdom), Neeraj Mukesh Shah, Michael Cheng, Rebecca Francesca D'Cruz, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Brian Murphy, Georgios Kalsakas</td>
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<td>PA2941</td>
<td>Determining factors affecting survival in a hospital-based motor neurone disease population on domiciliary NIV</td>
<td>Revati Naran (London, United Kingdom), Swapna Mandal</td>
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<td>PA2942</td>
<td>Predictors of survival at initiation of non-invasive ventilation in amyotrophic lateral sclerosis</td>
<td>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 Kalsakas</td>
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<td>PA2943</td>
<td>Surgical outcomes in patients on home mechanical ventilation</td>
<td>Jan De Mey (Ghent, Belgium), Lauren Heyman, Luc De Baerdemaeker, Eric Derom</td>
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<td>PA2944</td>
<td>Successful tracheostomy decannulation in patients with neuromuscular disorders: long-term follow-up</td>
<td>Chan Woong Jang (Seoul, Republic of Korea), Han Eol Cho, Miri Suh, Won Ah Choi, Su Hyun Cho, Inyeop Kim, Seong-Woong Kang</td>
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<td>PA2945</td>
<td>Pulmonary rehabilitation (PR) referral of COPD patients established on home NIV</td>
<td>Léa Razakamanantsossa (Paris, France), Typhaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout</td>
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<td>PA2946</td>
<td>Home Non Invasive Ventilation (H-NIV) Patient Characteristics and Outcomes: Observational study in a teaching hospital in the UK</td>
<td>Hannah Bardsley (Norwich, United Kingdom), Kashvin Kumar Ram Kumar, Vicky Ershadi, Georgina Siggins, Prasanna Sankaran</td>
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<td>PA2947</td>
<td>Long-term Noninvasive Ventilation for COPD patients following an exacerbation with acute hypercapnic respiratory failure: a randomized controlled trial</td>
<td>Jon Torgny Rostrup Wilcke (København Ø, Denmark), Caroline Hedlund, Kasper Linde Ankjærgaard, Tine Peick Sonne, Philip Tønnesen, Ejvind Frausing Hansen, Helle Frost Andreassen, Ronan M. G. Berg, Jens-Ulrik Stehr Jensen</td>
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<td>PA2948</td>
<td>Prognostic indicators of Non-Invasive Ventilation dependence in Duchenne muscular dystrophy</td>
<td>Kenki Matsumoto (London, United Kingdom), Carrie Hallam, Michael Polkey, Shruthi Konda</td>
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<td>PA2949</td>
<td>Cognitive impairment in patients non-concordant with domiciliary non-invasive ventilation: A service evaluation</td>
<td>Ashleigh Thorn (London, United Kingdom), Stephanie Mansell, Eleanor Main</td>
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<td>PA2950</td>
<td>Long term survival in ALS patients with Home Tracheostomy Mechanical Ventilation</td>
<td>Mariam García Alfaro (Peralta, Spain), Andrea Ballester Ferriz, Jesús Sancho Chinesta, Santos Ferrer Espinosa, Jaime Signes-Costa Miñana</td>
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<td>PA2951</td>
<td>Intermittent abdominal pressure ventilation in management of neuromuscular diseases: a Delphi panel consensus</td>
<td>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</td>
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<td>PA2952</td>
<td>Intermittent abdominal pressure ventilation: efficacy in neuromuscular diseases.</td>
<td>Francesca Simioli (Napoli (NA), Italy), Anna Annunziata, Maria Rosaria Valentino, Antonietta Coppola, Cauteruccio Rosa, Angela Mirizzi, Roberto Rega, Giuseppe Fiorentino</td>
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**Session 296**

**Poster session: Towards the identification of new biomarkers in pulmonary diseases**

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

**Method(s):** Cell and molecular biology, Epidemiology, Pulmonary function testing, Respiratory intensive care, Public health

**Tag(s):** Translational

**Chairs:** Nikolaos I. Kanelakis (Oxford, United Kingdom), Chair to be confirmed

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<td>PA2953</td>
<td>Oxidized low density lipoprotein mediates NLRP3 activation in patients with sleep apnea and early subclinical atherosclerosis.</td>
<td>Elena Díaz García (Madrid, Spain), David Sanz Rubio, Sara García-Tovar, Enrique Alfaro, Pablo Cubero, Ana V Gil, José M. Marin, Carolina Cubillos Zapata, Francisco García-Rio</td>
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<td>PA2954</td>
<td>Influence of the therapeutic approach in the metabolomic profile evolution of Lung Adenocarcinoma patients</td>
<td>Daniela Sofia Madama Santos Silva (Coimbra, Portugal), David Carrageta, Pedro Oliveira, Marco Alves, Ana Margarida Abrantes</td>
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<td>PA2955</td>
<td>Human bronchial and alveolar epithelial cells respond differently to hypoxia and profibrotic stimuli</td>
<td>Martin Garcia-Ryde (Lund, Sweden), Rebecca Berggren-Nylund, Anna Löfdahl, Arturo Ibáñez-Fonseca, Monica Karedal, Gunilla Westergren-Thorsson, Ellen Tufvesson, Anna-Karin Larsson-Callerfelt</td>
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<td>PA2956</td>
<td>Real-time breath volatilomics analysis by soft Ionisation Mass Spectrometry</td>
<td>Shahd Abuhelal (London, United Kingdom), Kenneth Robinson, Zoltan Takats, Salman Siddiqui</td>
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<td>PA2957</td>
<td>Optimisation of DNA extraction from nasal lining fluid to assess the nasal microbiome</td>
<td>Samuel Montgomery (Leederville (WA), Australia), Jose Caparrós-Martin</td>
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<td>PA2958</td>
<td>Predicting the efficiency of the treatment of comorbidity diabetes mellitus and multidrug-resistant tuberculosis depending on the polymorphism variation of glutathione-S-transferase genes</td>
<td>Ihor Semianiv (Chernivtsi, Ukraine), Lilitia Todoriko, Marianna Semianiv, Mykola Garas</td>
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<td>PA2959</td>
<td>Hypoxia-induced metabolic response in obstructive sleep apnoea patients is influenced by sphingomyelin levels</td>
<td>Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taaalberg, Ketlin Veevälä, Ragne Tammi, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Kalle Kil, Ursa Soomets, Alan Altraja</td>
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<td>PA2960</td>
<td>Investigation into the Plasma Proteome Signature in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS)</td>
<td>Johanna Squires (Worcester, United States), Sarra Al-Zayer, Peng Li, Wenzhong Xiao, David Systrom</td>
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<td>PA2961</td>
<td>Minimally invasive autopsy as a tool for lung molecular study</td>
<td>Sabrina Setesmmbre Batah (Ribeirão Preto, Brazil), Alexandre Fabro</td>
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<td>PA2962</td>
<td>Metabolomics of blood plasma from critically ill patients with suspected ventilator-associated pneumonia</td>
<td>Waqar Ahmed (Manchester, United Kingdom), Adam Burke, Nigel Gotts, Pauline Van Oort, Jonathan Bannard-Smith, Ben Morton, Ingelborg Welters, Ronan Mcmullan, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler</td>
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<td>PA2963</td>
<td>Metabolomic analysis of exhaled breath can rule out ventilator-associated pneumonia (VAP) in critically ill patients</td>
<td>Waqar Ahmed (Manchester, United Kingdom), Iain White, Pauline Van Oort, Nicholas Rattray, Calum Docherty, Jonathan Bannard-Smith, Ben Morton, Ingelborg Welters, Ronan Mcmullan, Stephen Roberts, Roy Goodacre, Paul Dark, Tim Felton, Stephen Fowler</td>
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PA2964
CFTR modulator therapy partially resolves inflammation in CF lung disease
Rosemary Maher (Liverpool, United Kingdom), Peter Barry, Edward Emmott, Andrew Jones, Lijing Lin, Paul Mcnamara, Jaclyn Smith, Robert Lord

PA2965
Comparative analysis of macrolide antibiotics effects on bronchial epithelial cell differentiation in vitro
Arni Asbjarnarson (Reykjavik, Iceland), Fridrik Runar Gardarsson, Jon Petur Joelsson, Bryndis Valdimarsdottir, Ari Jon Arason, Snaevar Sigurdsson, Konstantinos Gourgouliannis, Sotirios Zorgiani

PA2966
BB51 and BB57 gene expression profile in mesothelial cells during hyperosmotic stress.
Rajesh Jagirdar (Larissa, Greece), Erasmia Rouka, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsious, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotirios Zorogianis

PA2967
miRNA identification in Particles in Exhaled Air (PEA) to study lung diseases
Martina Bonatti (Solna, Sweden), Monika Ezerskyte, Pia Lindberg, Åsa Maria Wheelock

PA2968
Development and validation of in vitro human inhalation toxicity tests for volatile liquids, mists, and sprays
Jan Markus (Bratislava, Slovakia), Yulia Kaluzhny, George R. Jackson, Paul Kearney, Silvia Letasiova, Mitchell Klausner, Alex Armento

PA2969
Late Breaking Abstract - Circulating ITGB6 levels are elevated in patients with IPF and reduced following lung transplant
Martin Decaris (South San Francisco, United States), Martin Decaris, Erine Budi, Prerna Kotak, Susan Jacobs, Tushar Desai, Scott Turner

PA2970
Inhaled cannabis product methods for in vitro toxicological assessment
Emily Wilson (Montreal, Canada), Maddison Arlen, Rui Lui, Ryan Pusiak, Percival Graham, David Eidelman, Cory Harris, Carolyn Baglole

PA2971
Consensus clustering with missing labels (ccml): a consensus clustering tool for multi-omics integrative prediction in cohorts with unequal sample coverage
Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Hongyan Chen, C. Magnus Sköld, Meng Zhou

PA2972
Impact of host DNA depletion in human upper respiratory microbiome investigations
Ekanyake Mudiyanselage Udani Anuradha Ekanayake (Hull, United Kingdom), Angela Oates, Simon Hart, Laura Sadovsky

PS-5 in poster area
Session 297 12:30 - 14:00
Poster session: Mechanisms of allergic airway disease

Disease(s) : Airway diseases
Method(s) : Cell and molecular biology  Physiology  Pulmonary function testing  Imaging
Tag(s) : Translational
Chairs : Amanda Oliver (Cambridge, United Kingdom)

PA2973
Multiplex protein quantification per cell type in bronchoalveolar lavage cytospin cells using NanoStrings GeoMx
Nicole van der Burg (Lund, Sweden), Martin Ryde, Jaro Ankerst, Leif Bjerner, Ellen Tufvesson

PA2974
Metabolomic Profiling in a Mouse Model of Menopause-Associated Asthma.
Julie Ledford (Tucson, United States), William Pederson, Laurie Ellerman, Yan Jin, Haiwei Gu

PA2975
Rac GTPase dependent cell signaling drives eosinophilic function in severe asthma.
Dorian Hassoun (Nantes, France), Hugo Bergeare, Morgane Rousselle, Marie-Aude Cheminant, Carole Brosseau, Nicolas Jouand, Christine Sagan, Grégoire Bouchaud, Sophie Brouard, François-Xavier Blanc, Gervaise Loirand, Vincent Sauzeau

PA2976
Different subtypes of eosinophils between asthma and COPD in bronchial tissue.
Alejandra Sánchez-Santos (Las Palmas de Gran Canaria, Spain), Carlos Cabrera-López, Angelina Lemes-Castellano, Sara Cazorla-Rivero, Enrique González-Dávila, Bartolomé Bartolomé, Ciro Casanova-Macario

PA2977
LSC - 2023 - Eosinophil subtypes affect airway smooth muscle cells migration and ECM-related proliferation in asthma
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Jolita Palacijonyte, Ieva Janulaityte, Greta Seskaite, Kestutis Malakauskas

PA2978
WISP-1 stimulates the accumulation of nuclear factor erythroid-2 related factor 2 (NRF2) into the nucleus of airway smooth muscle cells from patients with asthma and COPD
MARIA ELPIDA Christopoulou (Freiburg im Breisgau, Germany), Eleni Papakonstantinou, Daiana Stolz
Collagen turnover in airway smooth muscle cells is mediated by WISP-1 differently in asthma and in COPD
MARIÁ 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
MARIÁ 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

IL-33 drives airway remodeling by promoting mixed inflammation and pro-fibrotic pathways
Seblewongel Asrat (Tarrytown, United States), Subhashini Srivatsan, Brianna Buonagurio, Kirsten Nagashima, George Scott, Kaitlyn Gayvert, Wei Keat Lim, Dylan Birchard, Li-Hong Ben, Audrey Floc’H, Andrew Murphy, Matthew Sleeman, Jamie Orendo

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, Hinmerk Schulz-Hildebrandt, Martin Ahrens, Gereon Hüttmann, 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 Trombeta Lima, Sophie T Bos, Carolina Demarchi Munhoz, Reinoud Gosens

The IL23-Th17 axis in neutrophilic airway inflammation
Barsha Baisakhi Nayak (Graz, Austria), Iris Red, Juliana Schwanzer, Julia Teppan, Ilse Lanz, Melanie Kienzl, Akos Heinemann, Philipp Douschan, Eva Sturm

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 Physiotherapy Pulmonary rehabilitation Epidemiology Public health Respiratory intensive care
Tag(s) : Clinical
Chairs : Marijke Dieltjens (Edegem (Antwerp), Belgium), Richard Staats (Lisbon, Portugal)
<table>
<thead>
<tr>
<th>ID</th>
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<tr>
<td>PA2993</td>
<td>Prevalence and characteristics of sleep apnea syndrome in heart failure patients</td>
<td>syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Anttit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi</td>
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<tr>
<td>PA2994</td>
<td>Sleep apnea screening questionnaires in heart failure patients</td>
<td>syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Anttit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi</td>
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<tr>
<td>PA2995</td>
<td>Predictive factors of moderate to severe sleep apnea syndrome in heart failure</td>
<td>syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Sawssen Anttit, Hela Cherif, Amine Boufares, Salma Mkaddem, Mariem Triki, Lilia Zakhama, Mohamed Ridha Charfi</td>
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<tr>
<td>PA2996</td>
<td>Temporal association of ventricular arrhythmias and respiratory events in heart failure patients with CSA</td>
<td>Valentin Guenzler (Regensburg, Germany), Michael Arzt, Marjorie Grimm, Amélie Ebert, Florian Zeman, Dominik Linz, Holger Woehrle, Renaud Tamisier, Martin R Cowie, Christoph Fisser</td>
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<td>PA2997</td>
<td>Resolution of ST deviation in patients with and without sleep disordered breathing early after acute myocardial infarction</td>
<td>Aya Kassim (Regensburg, Germany), Michael Arzt, Henrik Fox, Clemens Wiest, Stefan Buchner, Stefan stadler</td>
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<td>PA2998</td>
<td>Obstructive sleep apnea and ischemic ECG changes in Mauritius</td>
<td>Ulf Nilsson (Umeå, Sweden), Anders Blomberg, Paul Zimmet, Jaakko Tuomilehto, Dianna Magliano, George Alberti, Sudhir Kowlessur, Jonathan Shaw, Abdonas Tamosiunišas, Stefan Söderberg</td>
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<td>PA2999</td>
<td>Trajectories of daytime sleepiness post-ischemic stroke and TIA: a propensity score matching study</td>
<td>Sébastien Baillieux (Grenoble CEDEX 9, France), Renaud Tamisier, Basstien Gevaudan, Sarah Alexandre, Olivier Detante, Yves Dauvilliers, Claudio Bassetti, Jean-Louis Pépin, Sébastien Baillly</td>
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<td>PA3000</td>
<td>Hypoxic Burden in patients with Obstructive Sleep Apnoea: Correlation with sleepiness, polygraphic parameters and cardiovascular risk factors</td>
<td>Thais Beauperthuy Levy (Valencia, Spain), Grace Jacqueline Oscullo Yepe, Marina Inglés Azorin, Jose Gomez Olivas, Amina Bekki, Sergio Mompean Rodriguez, Alberto Garcia Ortega, Miguel Angel Martínez Garcia</td>
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<tr>
<td>PA3001</td>
<td>Predictors of nocturnal hypoxic burden in patients with severe coronary artery disease</td>
<td>Michael Arzt (Regensburg, Germany), Verka Blagoeva, Maximilian Trum, Philipp Hegner, Bernhard Floechinger, Daniele Camboni, Marcus Creutzzenberg, Florian Zeman, Christof Schmid, Lars S Maier, Maria Tafelmaier</td>
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<td>PA3002</td>
<td>Time spent with saturation below 80% versus 90% as predictive values for cardiovascular risk in patients with obstructive sleep apnoea</td>
<td>Stefan Mihaicuta (Timisoara (Timis), Romania), Mariela Romina Birza, Stefan Frent, Alina Mirela Popa, Loredana Gligor, Martina Meszaros, Andras Bikov</td>
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<td>PA3003</td>
<td>Pharmacotherapeutic profile of sleep apnea patients</td>
<td>Stefan Mihaicuta (Timisoara (Timis), Romania), Mihai Udrescu, Adrian Militaru, Alexandru Topirceanu, Lucretia Udrescu</td>
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<td>PA3004</td>
<td>Sleep-wake cycle and the burden of comorbidities in patients with and without obstructive sleep apnoea</td>
<td>Salman Qayum (Manchester, United Kingdom), Laura Melissari, Balazs Csoma, Maria Mascarenos Ponte, John Blaikley, Mahmoud Barakat, Andras Bikov</td>
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<td>PA3005</td>
<td>Impact of a sleep intervention program on anxiety and depression in patients with Chronic Musculoskeletal Pain</td>
<td>Sofia Romero Peralta (Madrid, Spain), Pilar Resano Barrio, Gloria Hernando Benito, Esther Solana Pérez, Carlota Coso, Laura Silgado Martinez, Juan Fernando Mas, Sonia López Monzoni, Leticia Álvarez Balado, María Esther Viejo Ayuso, Rosa Mediano San Andrés, María Castillo García, Olga Mediano</td>
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<td>PA3006</td>
<td>Effectiveness of pulmonary rehabilitation and oropharyngeal exercises in patients with moderate obstructive sleep apnea syndrome (OSAS)</td>
<td>Iana Andreieva (Zaporizhia, Ukraine), Oleksander Tokarenko, Dmitro Myrmyi</td>
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<td>PA3007</td>
<td>Efficacy of positional therapy in patients with positional obstructive sleep apnoea: a retrospective study to investigate predictive factors in successful adaptation</td>
<td>Federica Bonavoglia (Voghera, Italy), Giulia Pennacchi, Angela Bellofiore, Carlo Magnoni, Marco Mantero</td>
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<td>PA3008</td>
<td>Short-term effectiveness of positional obstructive sleep apnoea therapy (SOMNIBEL®): An observational study</td>
<td>Ana Reyes Pardessus Otero (Barcelona, Spain), Paula Pujal Montaña, Inés Podzamczer Valls, Judit Gutiérrez Anguita, Marta Blanco Bejar, Marta Gutiérrez Rouco, Ana María Fortuna Gutiérrez, Mercedes Mayos Pérez</td>
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<td>PA3009</td>
<td>An audit to increase the efficiency of mandibular advancement splint (MAS) referrals to a hospital orthodontic department.</td>
<td>Matthew Holder (London, United Kingdom), Emma Weston, Guanhong Li, Lucy Davenport-Jones, Safouza Keshtgar</td>
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Use of the ExVent accessory with the O2Vent Optima oral appliance for the treatment of obstructive sleep apnea – A clinical trial
Sat Sharma (Toronto (ON), Canada), Antonella Conflitti

Long-term cephalometric analyses during treatment with mandibular advancement device (MAD) in patients treated for OSA
Jean-Baptiste Kerbrat (, France), Yamina Ibn Mejd, Marie Mercier, Elodie Aversenq, Florent Lavergne

Mandibular advancement device efficacy as a therapeutic alternative treatment in patients with OSA and CPAP intolerance after 3 years of follow up
Sara Gonzalez Castro (Tres Cantos (Madrid), Spain), Laura Pozuelo Sánchez, Ignacio Jara Alonso, Andrea Pérez Figuera, Alfonso Muriel Garcia, Alberto Carreño Alejandre, María Parra Jarque, Lorena Delgado Vera-Pinto, Aldara García Sánchez, Irene Cano Pumarega, Eva Mañas Baena

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 Multerova, Arsh Randhawa, Lindy Van Burk, Joaquin Sanchez-Covisa, Kirsty Rhodes, Clementine Nordon, On Behalf Of The Exacos-Cv Study Group

Respiratory specialist visit before admission with a COPD exacerbation may affect management and outcomes.
Ophir Freund (Tel Aviv, Israel), Boaz Tiran, Eyal Kleinhen德尔, Evgeni Gershman, Avishay Elis, Amir Bar-Shai

In-hospital antibiotic use for severe chronic obstructive pulmonary disease exacerbations: a retrospective observational study
Lies Lahousse (Ghent, Belgium), Anna Vanoverschelde, Chloé Van Hoey, Franky Buyle, Nadia Den Blauwen, Pieter Depuydt, Eva Van Braeckel

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, Bochara Karaborni, Hadhemi Rejeb, Dorra Greb, Hajer Abdelghaffar, Ines Akrout, 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-Kyong Lee, Tae-Ok Kim, Yong-Soo Kwon, Yu-Il 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, Sinan Wu, Ting Yang

Systemic inflammation and exacerbations are associated with serum vitamin D levels in a cohort of patients with COPD, group E
Apostolos Sioutas (Athens, Greece), Petra Kristina Jacobson, Hans Lennart Persson
PA3024 Validation of an EMR derived algorithm to identify moderate asthma exacerbations in the UK
Kieran J. Rothnie (London, United Kingdom), Robert Wood, Theo Tritton, Beade Numbere, Mark Small, Claire Trennery, Rosie Wild, David Slade, Shiyuan Zhang, Chris Compton, Gema Requena, Stephen Noorduyn, Afisi Ismaila, Emma Goodall

PA3025 A prospective study of inhaled therapy prescribing, pMDI technique assessment, and inhaler concordance amongst hospitalised patients with airways disease
Luanne Lai (Middlesbrough, United Kingdom), Bethany Cockerill, Emma Lunn, Reem Abdelgadir, George Antunes

PA3026 COPD Patients Admitted to Hospital: A Missed Opportunity to Optimise Care?
Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Alyson Tee, Karina Gukhool, Gráinne D’Ancona, Amy Dewar

PA3027 Interpreting the significance of collagen-IV level changes in bronchoalveolar fluid in acute COPD exacerbation before and after tiotropium bromide treatment
Mariana Kulynych-Miskiv (Galych, Ukraine), Mykola Ostrovskyy, Vasyl Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Kostiantyn Shvets, Alla Zuban, Nadiia Korzh, Olga Molodovets, Galyna Korzh

PA3028 A Comparative Study to Evaluate the Efficacy/Outcome of Non-invasive Positive Pressure Ventilation through Mechanical Ventilator and conventional BiPAP in Patients of Hypercapnic Respiratory Failure
Aman Ahuja (Vellore, India), Manoharlal Gupta, Sanjay Sogani

PA3029 A Simple Clinical Risk Score (A2CDPS) for Predicting Mortality in Patients with AECOPD and Cardiovascular Diseases
Jiarui Zhang (chengdu, China), Haixia Zhou, Qun Yi, Chen Zhou, Yuanming Luo, Hailong Wei, Huiqing Ge, Huiguo Liu, Jianchu Zhang, Xianhua Li, Pinhua Pan, Mengqiu Yi, Lina Cheng, Liang Liu

PA3030 Medical errors in the use of antibacterial drugs of the cephalosporin group at the outpatient stage of the treatment of respiratory pathology
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova

PA3031 Bronchodilators delivered via high-flow nasal cannula (HFNC) in adults with moderate-severe asthma exacerbation admitted to the emergency department (ED)
Nico Colaianni Alfonso (Buenos Aires, Argentina), Guillermo Cesar Montiel, Ada Toledo, Mauro Castro-Sayat, Mariano Techera

PA3032 Characteristics of exacerbations in patients with severe, uncontrolled asthma who received tezepelumab versus placebo
Arnaud Bourdin (Montpellier Cedex 5, France), Michael E Wechsler, Christopher E Brightling, Stephanie Korn, Guy Brusselle, Liam G Heaney, Sandhia Ponnarambil, Gillian Hunter, Andrew W Lindsley, Christopher S Ambrose

PA3033 Efficacy and safety of gefapixant for treatment of refractory or unexplained chronic cough: a systematic review and dose-response meta-analysis
Elena Kum (Hamilton, Canada), Matthew Patel, Nermin Diab, Mustafa Wahab, Dena Zeraatkar, Derek Chu, Gordon Guyatt, Paul O’Byrne, Imran Satia

PA3034 Relevance of cough in patients with severe asthma: Analysis from the Korean Severe Asthma Registry (KoSAR) study
Hwa Young Lee (Seoul, Republic of Korea), Youngsoo Lee, Seung-Eun Lee, Da Woon Sim, Noeul Kang, Byung-Jae Lee, Joo-Hee Kim, Sung-Yoon Kang, Ga-Young Ban, Young Hee Nam, Sujeong Kim, Chan Sun Park, So Ri Kim, Jin An, Byung Keun Kim, Heung-Woo Park, Taehoon Lee, Ji-Ho Lee, So-Young Park, Sook Young Lee, Hae-Sim Park, You Sook Cho, Sang-Heon Kim, Woo-Jung Song

PA3035 Early cough severity changes over the first 4 weeks of treatment with gefapixant in two phase 3 studies
Surinder S. Birring (London, United Kingdom), Peter Dicpinigaitis, Alyn Morice, Qing Li, Eduardo Urdaneta, George Philip, Carmen La Rosa

PS-8 in poster area Session 300 12:30 - 14:00
Poster session: New frontiers in chronic cough, a1-antitrypsin deficiency, and airway diseases endoscopy
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, General respiratory patient care, Cell and molecular biology, Endoscopy and interventional pulmonology, Imaging, Pulmonary function testing
Tag(s): Clinical
Chairs: Gaetano Caramori (Messina (ME), Italy), Chair to be confirmed

PA3033 Efficacy and safety of gefapixant for treatment of refractory or unexplained chronic cough: a systematic review and dose-response meta-analysis
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Hwa Young Lee (Seoul, Republic of Korea), Youngsoo Lee, Seung-Eun Lee, Da Woon Sim, Noeul Kang, Byung-Jae Lee, Joo-Hee Kim, Sung-Yoon Kang, Ga-Young Ban, Young Hee Nam, Sujeong Kim, Chan Sun Park, So Ri Kim, Jin An, Byung Keun Kim, Heung-Woo Park, Taehoon Lee, Ji-Ho Lee, So-Young Park, Sook Young Lee, Hae-Sim Park, You Sook Cho, Sang-Heon Kim, Woo-Jung Song

PA3035 Early cough severity changes over the first 4 weeks of treatment with gefapixant in two phase 3 studies
Surinder S. Birring (London, United Kingdom), Peter Dicpinigaitis, Alyn Morice, Qing Li, Eduardo Urdaneta, George Philip, Carmen La Rosa
PA3036 Demographics and subjective cough outcomes of guideline-based treatment in the McMaster Cough Clinic. Mustafaa Wahab (Hamilton, Canada), Elena Kum, Nermin Diab, Danica Brister, Caitlin Obminski, Jennifer Wattie, Lesley Wiltshire, Karen Howie, Sue Beaudin, Kieran Killian, Jaclyn Smith, Gordon Guyatt, Roma Sehmi, Gail Gauvreau, Paul O'Byrne, Imran Satia

PA3037 Cough responses to inhaled hypotonic solutions correlate with other measures of refractory chronic cough James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Rachel Dockry, Maria Belvisi, Michael Wortley, Sara Bonvini, Eric Dubois, Shannon Galgani, Kimberley Holt, Shilpi Sen, Phil Turner, Paul Czyzyk, Paul Marsden, Jacky Smith

PA3038 Does the type of Inhaler matter in cough variant or cough predominant asthma? Marta Dąbrowska (Warszawa, Poland), Elżbieta M. Grabczak, Katarzyna Białek-Gosk, Dominika Siwik, Wojciech Apanasiewicz, Rafal Krenke

PA3039 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

PA3040 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

PA3041 Burden of disease in a phase 3b trial of gefapixant in women with chronic cough and stress urinary incontinence Surinder S. Birring (London, United Kingdom), Linda Cardozo, Peter Dicpinigaitis, Roger Dmochowski, Amna S. Afzal, Susan Lu, Allison Martin Nguyen, Ruji Yao, Carmen La Rosa, Paul Reyfman

PA3042 Surfactant found in cleaning products, 4-tert-octylphenol, causes airway sensory nerves firing and airway smooth muscle contraction Billy Peter Baxter (London, United Kingdom), Sara J. Bonvini, Michael A. Wortley, Eric D. Dubuis, John J. Adcock, Fisnik Shala, James Bolaji, Mark A. Birrell, Teresa D. Tetley, Maria G. Belvisi

PA3043 Adherence to inhaled corticosteroids in patients with asthma prior to and during the first 12 months of COVID-19 pandemic Miguel Santibañez Margüello (Santander (Cantabria), Spain), Isabel Rodriguez, Juan Carlos,Com López-Caro, Silvia Gonzalez-Carranza, Maria Elena Cerrato, Maria Mar De Prado, Francisca Gomez-Molleda, Margarita Pinel, Maria Teresa Saiz, Carmen Fuentes, Juan Luis Garcia-Rivero

PA3044 Comparing neuronal phenotypes in two preclinical models of chronic lung disease Jonathan H. A. Miles (Hatfield, United Kingdom), Sara J. Bonvini, Michael A. Wortley, James W. Pinkerton, Sabina Issop, Charlotte E. Healey, Mark A. Birrell, Maria G. Belvisi

PA3045 Investigating the efficacy of a NaV1.7 channel blocker on airway sensory nerve activation and cough Sara Jane Bonvini (London, United Kingdom), Fisnik Shala, John Adcock, Michael Wortley, Ranganath Gopalakrishnan, Stuart Francis, Ramon Hendrickx, Marcella Aidani, Linda Fröderberg Roth, Edward Humphries, Cristina Gardelli, Mark Birrell, Maria Belvisi

PA3046 Assessment of clinical outcome after endoscopic lung volume reduction with one-way valves in emphysema patients and a very low 6 minute walk test at baseline Jacopo Saccamanno (Berlin, Germany), Lara Kilic, Thomas Sgarbossa, Martin Witzenrath, Franz Stanzel, Angelique Holland, Christian Graf, Wolfgang Gesierich, Andreas Gebhardt, Joachim H. Ficker, Stephan Eggeling, Stefan Andreas, Bernd Schmidt, Stephan Eisenmann, Björn Björn Schwick, Karl-Josef Franke, Andreas Fertl, Ralf-Harto Hübner

PA3047 Manifestations and management of laryngoceles: A report of 10 cases Rim Hammami (Sfax, Tunisia), Souha Kallel, Sirine Ayedi, Omar Walha, Najla Bahloul, Mohamed Amin Chaabouni, Sami Kammoun, Ilhem Charfeddine

PA3048 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

PA3049 Smoking cessation improves lung function in heterozygote alpha-1 antitrypsin patients. Dimitrios Tounpanakakis (Athens, Greece), Nicholas S Hopkinson, Sally Meah, James P Allinson, Omar S Usmani

PA3050 Treatment of emphysema in patients with very severe alpha-1-antitrypsin deficiency Emily F. A. van ’t Wout (Leiden, Netherlands), Ilaria Ferrarotti, Robert A. Stockley, Jan Stolk

PA3051 Late Breaking Abstract - Neutrophilic inflammation associates with dysregulated iron metabolism in COPD. James Baker (MANCHESTER, United Kingdom), Christopher Mccrae, Andrew Higham, Simon Lea, Dave Singh
Late Breaking Abstract - Validation of assays measuring functional alpha-1 antitrypsin (AAT) in patients with AAT deficiency (AATD)

Carson Veldstra (La Jolla, United States), Jason Zour, Varun Ramani, Carolina Bellizzi, Buket Onel, Liz Nolf, Brendan Eckelman

PA3052

PS-9 in poster area
Poster session: Asthma and chronic obstructive pulmonary disease

Session 301 12:30 - 14:00

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

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

Tag(s) : Clinical

Chairs : Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

PA3053
Severe Asthma and sleep disorders: a Severe Asthma Network Italy (SANI) analysis
Sebastian Ferri (Milan (MI), Italy), Enrico Heffler, Francesca Pugnigioni, Pierluigi Paggiaro, Francesco Blasi, Giorgio Walter Canonica

PA3054
Risk factors for asthma exacerbations in adult-onset asthma: an analysis of GINA report
Lauri Nordman (Tampere, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Lauri Lehtimäki, Pinja Ilmarinen, Hannu Kankaanranta

PA3055
Preserved ratio impaired spirometry (PRISm) as a spirometric pattern among Bulgarian asthma patients
Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Plamen Stojimenova

PA3056
Isolated respiratory microbials and clinical characteristics in exacerbation of obese asthmatics: a multicenter study
Jung Hyun Chang (Seoul, Republic of Korea), Sojung Park, Yon Ju Ryu, Jin Hwa Lee, Yong-Il Hwang

PA3057
Is impulse oscillometry useful in the diagnosis tracheobronchomalacia in patients with severe asthma?
Juan Fco. Nieves Salceda (Oviedo, Spain), Tamara Hermida Valverde, Marta Iscar Urrutia, Francisco Julian López González, Ana Isabel Enríquez Rodriguez, María Rodríguez Pericacho, Marta Sánchez Zeballos, Ángela Lanza Martínez, Laura Martínez Vega, Laura Abad Chamorro, Eduardo Sánchez Vázquez, Patricia Alvarez Alvarez, María Rodil Riera, Isabel Martinez Gonzalez Posada, Ramón Fernandez Alvarez, Marta Maria Garcia Clemente

PA3058
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

PA3059
Nasal polyposis and asthma: clinical severity and recurrence
Rim Hammami (Sfax, Tunisia), Souha Kallel, Sirine Ayedi, Youssef Hbaieb, Najla Bahloul, Mohamed Amin Chaabouni, Sami Kammoun, Ilhem Charfeddine

PA3060
Core function in adults with severe asthma and the relationship with dyspnea and dysfunctional breathing
Joice Mara Oliveira (Londrina, Brazil), Vanessa L Clark, Karina Couto Furlanetto, Peter G Gibson, Vanessa L Mcdonald

PA3061
Young asthmatics with exercise-induced bronchospasm have repercussions on cardiac autonomic modulation
Debora Carneiro de Mendonca (Vitória de Santo Antão, Brazil), Gilda Maria Barros Delmendes, Bruno Rafael Vieira Souza Silva, Polyanna Guerra Chaves Quirino, José Angélo Rizzo, Edil Albuquerque Rodrigues Filho, Emanuel Sarinho, Camila Matias De Almeida Santos, Decio Medeiros, Emilia Chagas Costa, Alexandre Sérgio Silva, Breno Quintella Farah, Marco Aurélio De Valois Correia Júnior, Steve Hunter

PA3062
Worsening of asthma control after recovery from mild to moderate COVID-19
Wang Chun Kwok (Hong Kong, Hong Kong), Terence Chi Chun Tam, David Chi Leung Lam, Jackson Ka Chun Leung, King Pui Florence Chan, Shung Kay Samuel Chan, Ka Yan Chiang, Mary Sau Man Ip, James Chung Man Ho

PA3063
Overweight improves long-term survival in Japanese patients with asthma
Jun Sasaki (Kurume, Japan), Tomotaka Kawayama, Takashi Kinoshita, Chiyo Matama, Shingo Tsuneyoshi, Ryo Yano, Masanobu Matsuoka, Tomoki Hoshino

PA3064
Physical activity, sedentary behaviour and sleep quality of Sri Lankan adults with and without COPD: cross-sectional study

PA3065
Hypercapnia increases airway resistance in patients with stable chronic obstructive pulmonary disease
Vitalii Kryvenko (Giessen, Germany), Masahiko Shigemura, Werner Seeger, Jacob. I. Sznejder, István Vadász
Year in review: Clinical year in review

Management of respiratory diseases

Aims: to provide an overview of the most relevant advances in diagnosis and treatment of chronic obstructive pulmonary disease (COPD), obstructive sleep apnoea, interstitial lung disease (ILD), idiopathic pulmonary fibrosis, cystic fibrosis (CF) and COVID-19; to discuss recent findings indicating potential novel pathways that support COPD subphenotypes and evidence for potential new drugs and therapeutic approaches to treat COPD; to describe evidence about the prognosis of different sleep indices alongside different patient cluster responses to continuous positive airway pressure therapy in terms of major cardiovascular events in patients with obstructive sleep apnoea; to examine major developments in diagnostic imaging methods and techniques (including computed tomography, magnetic resonance imaging and ultrasound) for lung function assessment in patients with COPD, ILD, CF and COVID-19; to discuss recent evidence of the effectiveness of alternative pulmonary rehabilitation models for patients with chronic respiratory diseases.

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

Method(s): Cell and molecular biology, Imaging, Physiology

Tag(s): Clinical

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

Chairs: Ioannis Vogiatzis (Blyth, United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

13:15 Advances in sleep breathing disorders
Sophia E. Schiza (Heraklion, Greece)

13:30 Developments in diagnostic imaging
Andrea Aliverti (Milan, Italy)

13:45 Discussion and Q&A
All Speakers

14:00 Break
All Speakers

14:05 Novel therapeutic approaches for COPD
Florence Schleich (Liege, Belgium)
Gold Session 309 13:45 - 15:15
State of the art session: Respiratory infections
Management of respiratory infections: the future and the present

**Aims:** to provide an overview of the most interesting advances in the field of respiratory infections from a translational perspective; to cover different topics from the role of mucosal immunity in determining the clinical outcomes to the more advance research in term of prevention and treatment of respiratory infections.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

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

**Chairs:** Eva Polverino (Barcelona, Spain), Onno Akkerman (Groningen, Netherlands), Graham H. Bothamley (London, United Kingdom)

- **13:45** The role of mucosal immunity of the lung in respiratory infections
  Paul G. Thomas (Memphis, United States)
- **14:00** The role of microbiome in chronic respiratory diseases: contribution to stability and to exacerbations
  Sanjay Haresh Chotirmall (Singapore, Singapore)
- **14:15** Non-antibiotic strategies to fight respiratory infections
  Christophe CARNOY (LILLE, France)
- **14:30** Update on vaccination to preventable respiratory infections
  Tobias Welte (Hannover, Germany)
- **14:45** Discussion and Q&A
  All Speakers

Silver Session 310 13:45 - 15:15
Journal session: From the Editor's Desk
NEJM/ERS joint session

**Aims:** The Editors of the ERJ and NEJM will introduce seminal papers that were published in the respective journal in 2023 which will then be presented by one of the authors.

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Physician in Pulmonary Training

**Chairs:** Darren Taichman (Boston, United States), James D. Chalmers (Dundee (Angus), United Kingdom), Chair to be confirmed

- **13:45** Dupilumab for COPD with Type 2 Inflammation Indicated by Eosinophil Counts
  Surya Bhatt (Birmingham, United States)
- **14:00** Airway smooth muscle area to predict steroid responsiveness in COPD patients receiving triple therapy (HISTORIC): a randomized, placebo-controlled, double-blind, investigator-initiated trial
  Daiana Stolz (Freiburg, Germany)
- **14:15** Hydrocortisone in Severe Community-Acquired Pneumonia
  Speaker to be confirmed
- **14:30** Effects of Sotatercept on Haemodynamics and Right Heart Function: Analysis of STELLAR Trial
  Marius M. Hoeper (Hannover, Germany)
- **14:45** Discussion and Q&A
  All Speakers
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

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)

14:15 Chronic rhinosinusitis: how do we diagnose and do we treat with biologics or surgery? Mona Al-Alahmad (Kuwait, Kuwait)

14:30 Cough drugs and trials: truly novel medicines or is it all a placebo effect? Marta Dąbrowska (Warszawa, Poland)

14:45 Discussion and Q&A All Speakers
## 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)

### Session 314  13:45 - 15:15

#### Coral 2

**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

**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)

### Program

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Session ID</th>
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<tr>
<td>13:45</td>
<td><strong>Lung function trajectories across the life-course: the looking forward/backward concept</strong></td>
<td>Shyamali Dharmage (Carlton Victoria, Australia)</td>
<td>3123</td>
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<tr>
<td>14:00</td>
<td>A mechanistic view into the early-life microenvironment and lung health</td>
<td>Niki Ubags (Epalinges, Switzerland)</td>
<td>3124</td>
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<tr>
<td>14:15</td>
<td>Looking forward: is the lung growth trajectory fixed or can we intervene?</td>
<td>Erik Melén (Stockholm, Sweden)</td>
<td>3125</td>
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<tr>
<td>14:30</td>
<td>Novel biomarkers of impaired lung function in clinical practice</td>
<td>Rosa Faner Canet (Barcelona, Spain)</td>
<td>3126</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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#### Session 315  13:45 - 15:15

**Symposium: Kidney-lung crosstalk in pulmonary disease**

**Aims:** to describe the pulmonary-renal link in physiology and pathological conditions. To discuss the interorgan crosstalk, which is emerging as a key underlying pathophysiological mechanism in both systemic (sepsis and critical illness) and organ-specific (chronic obstructive pulmonary disease (COPD) and interstitial lung disease) illnesses; to emphasize the interaction between the kidneys and lungs in pathological conditions that has been recently identified; to explain the clinical and therapeutic consequences of the crosstalk between the kidneys and lungs.

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

**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: Nicole Beydon (Paris, France), Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany)

### Program

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<tr>
<td>13:45</td>
<td>Sarcoidosis: gaps in diagnosis and treatment</td>
<td>Paolo Spagnolo (Padova (PD), Italy)</td>
<td>3131</td>
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<td>13:45</td>
<td>Sarcoidosis: when is HRCT not enough and when should PCCT be performed?</td>
<td>Ádám Domonkos Tárnoki (Budapest, Hungary)</td>
<td>3128</td>
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<tr>
<td>14:00</td>
<td>MR in sarcoidosis: is it reserved for cardiac sarcoidosis/assessment of cardiac involvement?</td>
<td>Speaker to be confirmed</td>
<td>3129</td>
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<tr>
<td>14:15</td>
<td>Is there a role for PET CT in sarcoidosis?</td>
<td>Zsuzsanna Besenyi (Szeged, Hungary)</td>
<td>3130</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<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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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
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**INDUSTRY SKILLS LAB WORKSHOP**

**Red 1+2** Session 318 14:15 - 15:30

**Oral presentation: Genetic and biological mechanisms in chronic airway disease**

**Disease(s):** Airway diseases

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

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

**Chairs:** Ian M. Adcock (London, United Kingdom)

**OA3143** Late Breaking Abstract - Dysanapsis Genetic Risk and Chronic Obstructive Pulmonary Disease Mortality
Leina Kingdom (Montreal, Canada), Catherine Debban, Yohan Bossé, Michael Cho, Qingling Duan, Jamie Engert, Ani Manichaikul, Benjamin M Smith

**OA3144** Genetic screening for cerebellar ataxia with neuropathy and bilateral vestibular areflexia syndrome (CANVAS) in patients with chronic cough. Preliminary analysis
Esther Palones (Barcelona, Spain), Elena Curto Sánchez, Lidia Gonzalez Quereda, Pia Gallano Petit, Luis Querol Gutiérrez, Federico Bertoletti, Maria Jose Rodriguez Fernandez, Alba Segarra Casas, Astrid Crespo Lessmann

**OA3145** Breath metabolomics to monitor the response to CFTR modulators in adults with cystic fibrosis
Emmanuelle Bardin (Paris, France), Helene Salvador, Camille Roquencourt, Isabelle Sermet-Gaudelus, Dominique Grenet, Philippe Devillier, Stanislas Grassin Delyle

**OA3146** Augmentation therapy for severe alpha-1 antitrypsin deficiency improves survival but is decoupled from FEV1 decline

**OA3147** Patients with chronic airway disease: Insights from a sputum proteome analysis
Stefanie Graeter (Bern, Switzerland), Luigi Capriotti, Anna Schnell, Moritz Saxenhofer, Samantha Chan, Megan Rees, Jo Douglass, Alastair Steward, Carlos Roca, Ilka Schulze, Alexander Schaub

**OA3148** Serum YKL-40 as a biomarker for predicting loss of lung function and neutrophilic airway inflammation in asthma, COPD and asthma-COPD overlap
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, Hiroyuki Minemura, Takefumi Nikaido, 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 Frølich (Umeå, Sweden), Rosamund E. Dove, Annelie F. Behndig, Ian S. Mudway, Anders Blomberg

A novel mice model investigating the effect of low-dose PM2.5 exposure on lung health
min feng (Sidney, Australia), Brian Oliver, Hui Chen

Ciliary dyskinesia is not affected by chronic mucous 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 Tsiouprou, Petros Bakakos, Nikoleta Rovina, Paschalis Stiropoulos, Athanasios Voulgaris, Konstantinos Katsoulis, Maria Kipourou, Paraskevi Katsaounou, Sofia Karachysafi, Pinelopi Anastasiadou, Theodora Papamitsou, Antonia Sioga, Nikoleta Pasteli, Styliani Papaemmanouil, Angeliki Cheva, Stavros Tryfon, Evangelia Fouka, Despoina Papakosta, Konstantinos Porpodi

Discussion and Q&A
All Speakers

Brown 3  Session 319  14:15 - 15:30
Oral presentation: Basic mechanisms in pulmonary hypertension
Disease(s): Pulmonary vascular diseases, Interstitial lung diseases
Method(s): Epidemiology, Cell and molecular biology, Imaging
Tag(s): Basic science, Translational
Chairs: Christina Eichstaedt (Heidelberg, Germany), Christophe Guignabert (Paris, France)

Late Breaking Abstract - Use of multi-omics to uncover novel druggable targets of SOX17 in PAH
Eleni Vasilaki (London, United Kingdom), Rachel Walters, Yukyee Wu, Martin Wilkins, Ines Cebola, Christopher Rhodes

Unpicking the Effects of General Control Non-depressible 2 (GCN2) Deficiency in Pulmonary Veno-Occlusive Disease
Max Schwiening (CAMBRIDGE, United Kingdom), Stephen Moore, Reshma Nibhani, Alexi Crosby, Mark Southwood, Ben Dunmore, Nick Morrell, Stefan Marciniak, Elaine Soon

Empagliflozin attenuates hypoxia-induced pulmonary arterial remodeling via inhibiting NOTCH3 signaling pathway
Celina De Almeida (Taoyuan, Taiwan), Ying-Ju Lai

Proteomic analysis of biomarkers associated with long-term survival in systemic sclerosis-related group 3 pulmonary hypertension in the HYPID study
Valentine Mismetti (Saint Etienne, France), Xavier Delavenne, David Montani, Souad Bezzeghoud, Olivier Delezay, Sophie Hodin, David Launay, Sylvain Marchand-Adam, Hilario Nunes, Edouard Ollier, Jean Pastré, Sébastien Quetant, Martine Reynaud-Gaubert, Julie Tractel, Sabrina Zeghmar, Laurent Godinas

An endothelial cell subtype is linked with altered Rho-kinase (ROCK)-associated pathways in PAH
Valentine Mismetti (Saint Etienne, France), Xavier Delavenne, David Montani, Souad Bezzeghoud, Olivier Delezay, Sophie Hodin, David Launay, Sylvain Marchand-Adam, Hilario Nunes, Edouard Ollier, Jean Pastré, Sébastien Quetant, Martine Reynaud-Gaubert, Julie Tractel, Sabrina Zeghmar, Laurent Godinas

Identification of AURKB as a new actor in vascular remodeling in PAH
Sarah-Eve Lemay (Quebec, Canada), Mélanie Sauvaget, Manon Mougin, Reem El Kabbout, Sandra Martineau, Sandra Breuil-Bonnet, Alice Bourgeois, Mabrouka Salem, Charlie Théberge, François Potus, Steeve Provencher, Olivier Boucherat, Sébastien Bonnet

Low Systemic Exposure With Targeted Administration of AER-901 (Inhaled Imatinib): Results of a Phase 1 Clinical Trial
Gary Burgess (Canterbury (Kent), United Kingdom), Dawn Edgerton, Nolan Wood, Michelle Widmann, Joshua Ziel
Neuroinflammation mediates cognitive dysfunction in pulmonary hypertension
Ping Yuan (Shanghai, China), Xiaoyi Hu, Lan Wang, Jiming Liu, Yi Wang, Xiaohuan Xia, Jialin Zheng

Discussion and Q&A
All Speakers

Brown 1+2 

Session 320 14:15 - 15:30

Oral presentation: Nursing role in global respiratory health

Disease(s): Airway diseases Interstitial lung diseases
Method(s): General respiratory patient care Epidemiology Pulmonary rehabilitation Palliative care Public health
Tag(s): Clinical

Chairs: José Miguel dos Santos Castro 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 ethnicity adults in safety-net primary care settings
Maureen George (New York, United States), Samrawit Solomon, Amy Mcmenamin, Gordon Zhang, Carolina Lopez, Marija Zeremski, Andrea Cassells, Jonathan N. Tobin, Jean-Marie Bruzzese, Emily Dimango, Alanna E. Kavanaugh, Rachel Shelton

Use of non-invasive ventilation in the palliative care of patients with chronic obstructive pulmonary disease: a scoping review
Simen Alexander Steindal (Oslo, Norway), Mari O Ohnstad, Kristin Heggdal, Marte-Marie Wallander Karlsen, Hanne Aagaard, Kari Sørensen, Vivi L Christensen, Kristin Hofso, Monica E Kvande, Nina M Kyno, Anne Kathrine Langerud, Brith Andresen, Marie H Larsen

The extent and characterization of underdiagnosis and misclassification of COPD in Sweden
Malin Axelsson (Malmö, Sweden), Helena Backman, Bright I. Nwaru, Caroline Stridsman, Lowie Vanfleteren, Linnea Hedman, Päivi Piirilä, Juuso Jalasto, Arnulf Langhammer, Hannu Kankaanranta, Madeleine Rådinger, Linda Ekerljung, Eva Rönmark, Anne Lindberg

Assessing the impact of a dedicated advanced nurse practitioner on a complex ILD service
Lindsay Brown (Blessington (Co. Wicklow), Ireland), Fiona Hickey, Omaima Omar, Emmet Mcgrath, Michael P Keane, Cormac McCarthy

Modifiable factors of uncontrolled asthma – the crucial role of the asthma nurse
Maja Zrnić (Golnik, Slovenia), Mariana Rezelj, Tea Mocnik

Do symptoms of anxiety correlate with lung function (FEV1) or age in patients with COPD? Results from a randomised controlled trial (RCT) of cognitive behavioural therapy (CBT) undertaken by respiratory nurses.
Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Christine Baker, Julia Newton, Carlos Echevarria, Michelle Jambon, Joanne Gray, Kim Pearce, Graham Burns, Anthony De Souza

Effectiveness of a maintenance PR programme: Preliminary results of the Rehab2Life study
Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Angela Mota, Lara Lemos, Mariana Santos, Inês Azevedo, Patrício Costa, José Miguel Padilha

A standardized language for respiratory nursing care: mixed method research in Spain. Project awarded by SEPAR
Silvia Arranz Alonso (Madrid, Spain), Sonia Parra Cordero

Existing respiratory nursing curriculum, frameworks, and other documentation relevant to respiratory nursing education: A Scoping Review
Bridget Murray (DUBLIN, Ireland), 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 Murphie, Carme Hernandez, Malin Axelsson, José Miguel Padilha, Mariana Paula Rezelj, Carol Stonham, Karen Heslop-Marshall

Blue 1+2 

Session 321 14:15 - 15:30

Oral presentation: Remote monitoring of respiratory patients

ERS International Congress 2023
DETAILED PROGRAMME
MONDAY 11 SEPTEMBER, 2023
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): General respiratory patient care, Epidemiology, Pulmonary function testing
Tag(s): Clinical

Chairs: David Drummond (Paris, France), Hilary Pinnock (Edinburgh, United Kingdom)

OA3176 Late Breaking Abstract - Exploring technology preferences and reliever inhaler use in adults with asthma – survey results with behavioural segmentation analysis
Naomi Bennett-Steele (Birmingham, United Kingdom), Andrew Cumella, Anna Francis, Samantha Walker

OA3177 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

OA3178 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 Degre, Marion Teulier, Christian Darne, Franck Lavergne, Capucine Morelot-Panzini

OA3179 Remote MONITORing of patients with chronic obstructive pulmonary disease using a tablet system. A randomized crossover study on quality of life measurements
Malte Frerichs (Möln达尔, Sweden), Kristina Andersson, Monika Crona, Huiqi Li, Lowie E.G.W. Vanfleteren

OA3180 Virtual ward (VW) in respiratory medicine - a fleeting premise or a sustainable enterprise?
Sivakasundari Narayani Ampikaipakan (Norwich, United Kingdom), Claire Beard, Katherine Cooper, Rose Cary, Michael Waters, Mark Pasteur

OA3181 Electronic monitoring with a digital smart spacer to support personalized inhaler use education in patients with asthma: the randomized controlled OUTERSPACE feasibility trial
Boudewijn Dierick (Groningen, Netherlands), Maria Achterbosch, Amber Eikholt, Sandra Been-Buck, Titia Klemmeier, Susanne Van De Hei, Paul Hagedoorn, Huib Kerstjens, Janwillem Kocks, Job Van Boven

OA3182 Variability in home spirometry is associated with dyspnoea in interstitial lung disease
Iain Stewart (London, United Kingdom), Ankesh Gandhi, Jia Wen, Colin Edwards, Rebecca Barton, Steve Jones, Fasihul Khan, Gisli Jenkins

OA3183 Clinical validation of real-world walking cadence in patients with COPD
Laura Delgado Ortiz (Barcelona, Spain), Saverio Ranciati, Ane Arbillaque-Etxarri, Eva Balcells, Joren Buckers, Heleen Demeyer, Anja Frei, Elena Gimeno-Santos, Nicholas S. Hopkinson, Corina De Jong, Niklas Karlsson, Luca Palmerini, Michael I. Polkey, Milo A. Puhan, Roberto Rabinovich, Diego Rodriguez Chiaradia, Robert Rodriguez-Roisin, Pere Toran, Ioannis Vogiatzis, Henrik Watz, Thierry Troosters, Judith Garcia-Aymerich

OA3184 Anticipated barriers and facilitators for implementing smart inhalers in asthma medication adherence management: a qualitative study
Susanne J. van de Hei (Groningen, Netherlands), Nilouq Stoker, Bertine M.J. Flokstra-De Blok, Charlotte C. Poot, Eline Meijer, Maarten J. Postma, Niels H. Chavannes, Janwillem W.H. Kocks, Job F.M. van Boven

OA3185 Laboratory and free-living gait performance in adults with COPD and healthy controls
Joren Buckers (Barcelona, Spain), Dimitrios Megaritis, Sarah Koch, Lisa Alcock, Clemens Becker, Stefano Bertuletti, Tecla Bonci, Philip Brown, Ellen Buckley, Sara C. Buttery, Brian Caulfield, Andrea Cereatti, Nikolas Chykiniamis, Heleen Demeyer, Carlos Echevarria, Anja Frei, Clint Hansen, Jeffrey Hausdorff, Nicholas S. Hopkinson, Emily Hume, Walter Maetzler, Encarna M. Micó-Amigo, Luca Palmerini, Francesca Salis, Kirsty Scott, Thierry Troosters, Henrik Watz, Lynn Rochester, Silvia Del Din, Ioannis Vogiatzis, Judith Garcia-Aymerich

OA3186 Discussion and Q&A
All Speakers

Yellow 1+2+3 Session 322 14:15 - 15:30
Oral presentation: The future of non-invasive ventilation: new applications, selection of patients and the value of advanced monitoring

Disease(s): Sleep and breathing disorders, Airway diseases, Respiratory critical care, Thoracic oncology
Method(s): Physiology, General respiratory patient care, Respiratory intensive care
Tag(s): Clinical
Chairs: Marieke L. Duiverman (Groningen, Netherlands), Claudia Crimi (Catania (CT), Italy)
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 Dopen, Allie Eathorne, Georgia Hoggarth, Žamir 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 Bianquis (Saint-Prix, France), Kinan El Hussein, Adrien Kerfourn, Emeline Fresnel, Jean-Christian Borel, Antoine Cuvelier, Johan Dupuis, Frédéric Gagnadoux, Jésus Gonzales, Jean-François Muir, Patrick Brian Murphy, Arnaud Prigent, Claudio Aníbal Rabec, Wojciech Trzepizur, João Carlos Winck, Maxime Patout

Pixelleting ventilation: which signals are required?
Anna Ridgers (Heidelberg, Australia), Warren Ruehland, Liam M Hannan, David J Berlowitz, Mark E Howard

Continuous and bilevel positive airway pressure to reduce breathing amplitudes in patients undergoing radiotherapy
Judith Elshof (Groningen, Netherlands), Corry M. Steenstra, Peter W. Dijkstra, Anne G.H. Niezink, Robin Wijsman, Marieke L. Duiverman

Hypoxic challenge test during treatment with non-invasive ventilation: a surmountable challenge
Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

Health related quality of life of two phenotypes of COPD patients under home NIV
Tim Raveling (Groningen, Netherlands), Peter Wijkstra, Marieke Duiverman

Benefits of inspiratory muscle training in Myotonic Dystrophy: a pilot study
Charlotte Seijger (Heerenveen, Netherlands), Marieke Duiverman, Peter Wijkstra

Discussion and Q&A
All Speakers

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
All Speakers 3197

14:30 Relationship between oxygen uptake and work rate
Paolo Palange (Rome, Italy) 3198

14:30 Anaerobic/lactate threshold
William Stringer (Long Beach, United States) 3199

14:30 Ventilatory efficiency
J. Alberto Neder (Kingston (ON), Canada) 3200

14:30 Breathing pattern and dynamic hyperinflation
Michele Schaeffer (Leuven, Belgium) 3201
Amber 3+4 Session 324 14:30 - 16:50

Skills workshop: SW9 Practicalities of spirometry and whole-body plethysmography

**Aims:** To help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

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

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

**Tag(s):** Clinical

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

**Chairs:** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker Details</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>14:30</td>
<td>Performing spirometry</td>
<td>Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)</td>
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<tr>
<td>14:30</td>
<td>Standardised static lung volume measurement using whole-body plethysmography</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
</tr>
<tr>
<td>14:30</td>
<td>Measurement of airway resistance and resistance-volume loops using whole-body plethysmography</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>14:30</td>
<td>Reporting and interpretation of case studies</td>
<td>Gregory King (Sydney (NSW), Australia)</td>
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Gold Session 325 15:30 - 17:00

Clinical cases: Lungs on fire: respiratory infections?

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

**Disease(s):** Respiratory infections

**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)

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<th>Time</th>
<th>Session</th>
<th>Speaker Details</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: T. Ejaz (Pakistan)</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
</tr>
<tr>
<td>15:52</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: H. Liyanage (Sri Lanka)</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
</tr>
<tr>
<td>16:14</td>
<td>Case 3 incl. panel discussion and Q&amp;A - Author: K. Vijayasaratha (United Kingdom)</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
</tr>
<tr>
<td>16:36</td>
<td>Case 4 incl. panel discussion and Q&amp;A - Author: R. Saleh (Saudi Arabia)</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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Silver Session 326 15:30 - 17:00

Clinical trials session: ALERT 2: organisation of care

**Digital care, practical strategies, and care pathways**

**Chairs:** Darren Taichman (Boston, United States), Chair to be confirmed

**Discussants:** Frits M.E. Franssen (Horn, Netherlands), Discussant to be confirmed

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker Details</th>
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<tr>
<td>15:30</td>
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<td>15:37</td>
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<td>RCT3212</td>
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</tbody>
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### Coral 4+5  
#### Session 327  
**15:30 - 17:00**

**Hot topics: Precision medicine in airways disease: where is the science going and what we can offer in the clinic?**

**Aims:** to update European Respiratory Society members on the role of precision medicine in airway diseases.

**Disease(s):** Airway diseases

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training

**Chairs:** Emer Kelly (Dublin 4, Ireland), Apostolos Bossios (Stockholm, Sweden), Omar S. Usmani (London, United Kingdom)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Early diagnostics in airway disease: will omics and cellular signatures really help our patients?</td>
<td>Sanjay Haresh Chotirmall (Singapore, Singapore)</td>
</tr>
<tr>
<td>15:45</td>
<td>Multiple novel classifications of COPD (subtypes, actiotypes, pre-COPD, early-COPD): are these helpful in offering better care for patients?</td>
<td>Shyamali Dharmage (Carlton Victoria, Australia)</td>
</tr>
<tr>
<td>16:00</td>
<td>Non-T2 asthma, the unmet need: molecular phenotyping to identify pathways for patient benefit. Are we getting any closer?</td>
<td>Richard Costello (Dublin 9, Ireland)</td>
</tr>
<tr>
<td>16:15</td>
<td>Treatable traits in bronchiectasis: will they help in bedside treatments for our patients?</td>
<td>Clémence Martin (Paris, France)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Coral 3  
#### Session 328  
**15:30 - 17:00**

**Clinical cases: Lungs on fire: lung cancer?**

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

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

**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)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: A. P. Cunha Craveiro (Portugal)</td>
<td>Georgia Hardavella (Athens, Greece)</td>
</tr>
<tr>
<td>15:52</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: N. A. Villamagua Arias (Spain)</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
</tr>
</tbody>
</table>
**Coral 1  Session 329  15:30 - 17:00**

**Symposium: Addressing disparities and deprivation in the care of children with lung diseases: a world view**

**Aims:** to address disparities and strategies to achieve equity in asthma care globally; to discuss global differences in asthma prevalence, asthma management, access to healthcare and affordability of asthma medications; to define solutions to gaps in asthma care in low-resource settings; to discuss potential social injustice and disparities and strategies to achieve equity in middle- and high-income countries; to address issues of diagnostics and asthma care in these lower-resourced settings as well as key research priorities that may improve outcomes globally.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Journalist

**Chairs:** Nicole Beydon (Paris, France), Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany)

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<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Session ID</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Access to asthma medication across the life-course: what we have learnt from global data</td>
<td>Luis García-Marcos Alvarez (El Palmar (Murcia), Spain)</td>
<td>3229</td>
</tr>
<tr>
<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 (Durban, South Africa)</td>
<td>3230</td>
</tr>
<tr>
<td>16:00</td>
<td>Disparities in communities: how do we make the equation more equitable?</td>
<td>Wanda Phipatanakul (Hopkinton, United States)</td>
<td>3231</td>
</tr>
<tr>
<td>16:15</td>
<td>Eastern Europe: deprivation in the face of war and access to healthcare</td>
<td>Oleksandr Mazulov (Vinnysia, Ukraine)</td>
<td>3232</td>
</tr>
<tr>
<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>3233</td>
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**Coral 2  Session 330  15:30 - 17:00**

**Hot topics: Digital solutions for respiratory medicine: a new way of working**

**Aims:** to review how adoption of an electronic health records system has created opportunities for respiratory patients to receive better care; to evaluate digital health services for respiratory patients; to discuss the role of big data analytics in respiratory care; to assess artificial intelligence (AI) solutions for imaging, pathology, spirometry, real-time assistance, etc; to discuss the potential drawbacks and advances of using digital technologies during the war in Ukraine.

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

**Method(s):** Imaging, Public health, Pulmonary rehabilitation

**Tag(s):** Clinical

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

**Chairs:** Karen Moor (Rotterdam, Netherlands), Carlos Robalo Cordeiro (Coimbra, Portugal)

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Session ID</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Electronic health records system: an opportunity for respiratory patients to receive better care</td>
<td>Speaker to be confirmed</td>
<td>3234</td>
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<tr>
<td>15:45</td>
<td>Big data and AI: it is not just about imaging</td>
<td>Özçelik Neslihan (Rize, Turkey)</td>
<td>3235</td>
</tr>
<tr>
<td>16:00</td>
<td>Digital health services for respiratory patients in Norway</td>
<td>Paolo Zanaboni (Tromsø, Norway)</td>
<td>3236</td>
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<tr>
<td>16:15</td>
<td>Use of digital medicine during wartime: Ukrainian experience</td>
<td>Vitalii Poberezhets (Vinnysia, Ukraine)</td>
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<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<tr>
<td>15:30-17:00</td>
<td><strong>Purple</strong> Session 331</td>
<td>Symposium: Post-viral lung diseases: from basic immunology to clinical phenotypes and therapy Lung Science Conference session</td>
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<td>Aims</td>
<td>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.</td>
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<tr>
<td>Disease(s)</td>
<td>Airway diseases</td>
<td>Interstitial lung diseases</td>
<td>Respiratory infections</td>
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<tr>
<td>Method(s)</td>
<td>Cell and molecular biology</td>
<td>Respiratory intensive care</td>
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<tr>
<td>Tag(s)</td>
<td>Translational</td>
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<tr>
<td>Target audience</td>
<td>Clinical researcher, Medical Student, Physician in Pulmonary Training, Scientist (basic, translational), Journalist</td>
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<td>Chairs</td>
<td>Silke Meiners (Sülfeld, Germany), Salman Siddiqui (London, United Kingdom)</td>
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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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<tr>
<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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<td>16:15</td>
<td>Recapitulating morphological and functional characteristics of distal airways in tubular organoids to model post-viral obstructive diseases</td>
<td>Isabelle Dupin (Bordeaux, France)</td>
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<td>16:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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15:30-16:15
**INDUSTRY SKILLS LAB WORKSHOP**

15:45-17:00
**Red 1+2 Session 334**

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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<tbody>
<tr>
<td>15:45</td>
<td>Environmental awareness in respiratory medicine: a clinical and scientific view</td>
<td>Lucilla Piccari (Barcelona, Spain)</td>
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<td>16:00</td>
<td>Communicate your research: reaching the media, the public and how to use social media</td>
<td>Leticia Kawano-Dourado (Sao Paulo, Brazil)</td>
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<tr>
<td>16:15</td>
<td>How ERS activities can help to shape your career</td>
<td>Niki Ubags (Epalinges, Switzerland)</td>
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<tr>
<td>16:30</td>
<td>Mina Gaga Lecture</td>
<td>Mareike Lehmann (Marburg, Germany)</td>
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<tr>
<td>16:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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15:45 - 17:00
**Brown 3 Session 335**

Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care
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

OA3252

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

OA3253

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

OA3254

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

OA3255

Muscle mRNA and protein responses to aerobic exercise training (AET) in COPD and health
Lorna Latimer (Rugby (Warwickshire), United Kingdom), Despina Constantin, Linzy Houchen-Wolloff, Bhavesh Popat, Dumitru Constantin-Teodosiu, Charlotte Bolton, Michael Steiner, Paul Greenhaff

OA3256

Effects of spray cryotherapy on cough receptors and airway microenvironment in a canine model of chronic bronchitis
long liang (Shanghai, China)

OA3257

Nasal stimulation with L-menthol alleviates multidimensional breathlessness in patients with interstitial lung disease: a randomized controlled trial
Masashi Kamezaki (Kawagoe, Japan), Kunihiko Terada, Satoru Ebihara

OA3258

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

OA3259

Pulmonary rehabilitation and physical activity: a step in the right direction? A network meta-analysis
James Manfield (Nottingham, United Kingdom), Yousuf A Chaudry, Sally J Singh, Tom Ward, Maxine E Whelan, Mark W Orme

OA3260

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

OA3261

Discussion and Q&A
All Speakers

Brown 1+2

Session 336

Oral presentation: From lung cancer screening to early diagnosis

Disease(s) : Thoracic oncology
Method(s) : General respiratory patient care Imaging Public health Epidemiology Surgery Pulmonary function testing Cell and molecular biology Endoscopy and interventional pulmonology
Tag(s) : Clinical

OA3263

Late Breaking Abstract - Endobronchial ultrasound in diagnosing and staging of lung cancer by 22G TBNB versus regular 22G TBA needles: a randomized clinical trial
Antonio Moretti (Amsterdam, Netherlands), Tess Kramer, Jolanda C Kuijvenhoven, Jan Von Der Thüsen, Daniëlle Cohen, Artur Szlubowski, Maciej Gnass, Maarten K Ninaber, Bart Hoppe, Rocco Trisolini, Zuzana Sestakova, Jiri Votruba, Daniël A Korevaar, Peter I Bonta, Jouke T Annema

OA3262
**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), Reinier Wener, Eline Janssens, Eline Schillebeeckx, ﬂ y Marcq, Jo Raskin, Jan P. Van Meerbeeck, 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 Prendekci, Amyn Bhamani, John McCabe, Jonathan Teague, Anne-Marie Hacker, Laura Farrelly, Kylie Gyeterson, Anand Devaraj, Arjun Nair, Allan Hackshaw, Sam Janes

**Fluid-specific miRNA-based signatures for lung cancer screening**
Giovanna Casagrande (Barretos, Brazil), Rodrigo Chiarantano, Alexia Polo, Ana Carolina Laus, Isabella Tagami, Eduardo Cabral, Angela Filatieri, Rachid Oliveira, Luciane Sussuchi Da Silva, Rui Reis, Leticia Leal

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Kathleen Zwijsen (Wilrijk, Belgium), Reinier Wener, Eline Janssens, Eline Schillebeeckx, ﬂ y Marcq, Jo Raskin, Jan P. Van Meerbeeck, 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 Prendekci, Amyn Bhamani, John McCabe, Jonathan Teague, Anne-Marie Hacker, Laura Farrelly, Kylie Gyeterson, Anand Devaraj, Arjun Nair, Allan Hackshaw, Sam Janes

**Fluid-specific miRNA-based signatures for lung cancer screening**
Giovanna Casagrande (Barretos, Brazil), Rodrigo Chiarantano, Alexia Polo, Ana Carolina Laus, Isabella Tagami, Eduardo Cabral, Angela Filatieri, Rachid Oliveira, Luciane Sussuchi Da Silva, Rui Reis, Leticia Leal

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**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 adenoceainoma**
Giovanna Casagrande (Barretos, Brazil), Isabella Tagami, Luciane Sussuchi Da Silva, Rodrigo Oliveira Cavagna, Maria Fernanda Gonçalves, Flávio Augusto Ferreira Da Silva, Eduardo Caetano Albino Da Silva, Vinicius Duval Da Silva, Pedro De Marchi, Rui Manuel Reis, Leticia Ferro Leal

**Determinants of Therapeutic Sensitivity in EGFR-Driven Lung Cancer**
Giorgia Foggetti (Milan, Italy), Mariana Do Carmo, Francisco Expósito, Camila Robles-Oteiza, Hongchen Cai, Virginia Guzzeloni, Federica Pedica, Gianluigi Arrigoni, Claudio Doglioni, Alessandra Bulotta, Stefano Cascinu, Giulia Veronesi, Giampiero Negri, Monte M. Winslow, Katerina Politi

**Integrating artificial intelligence tool in multidisciplinary tumor board for predicting complications after lung cancer surgery**
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Gabriele Maffeiis, Andrea Cara, Giulia Sedda, Lorenzo Spaggiari

**The role of crural diaphragm density in respiratory complications after VATS lobectomy: a retrospective analysis**
Alice Bellini (Forlì, Italy), Antonio Vizzuso, Sara Sterrantino, Eleonora Antognoni, Angelica Amatulli, Beatrice Siroli, Roland Barbante, Edoardo Raffaelli, Angelo Paolo Ciarrocchi, Sara Picuiucchi, Emanuela Giampalma, Franco Stella

**Discussion and Q&A**
All Speakers

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**Blue 1+2 Session 337**
**Oral presentation: Challenges and novelties in rare interstitial lung diseases**

**Disease(s):** Interstitial Lung Diseases

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

**Tag(s):** Clinical

**Chairs:** Maria Molina Molina (Barcelona, Spain), Cormac McCarthy (Dublin 4, Ireland)

**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

**Autoimmune Pulmonary Alveolar Proteinosis (aPAP) in Greece: 20 years in progress**
Effrosyni D. Manali (Athens, Greece), Spyros A Papiris, Maria Kallieri, Lykourgos Kolilekas, Georgia Papadaki, Emmanouil Verykakis, Panagiotis Lyberopoulos, Nikolaos Roussakis, Konstantinos Douros, Andrea Schams, Matthias Griese

**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 Spoorh, Yan Ma, Kenjiro Shima, Jennifer Stock, Claudia Chalk, Kathryn Wikenheiser-Brokamp, Carolyn Lutzeo

**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
| OAS280 | 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 Werneau, Effrosyni D Manali, Frédéric Gagnadoux, Anne Gondouin, Sandrine Hirschi, Gwenaël Lorillon, Martine Reynaud-Gaubert, Vanessa Bironneau, Elodie Blanchard, Arnaud Boudrin, Stéphane Dominique, Aurélien Justet, Julie Macey, Sylvain Marchand-Adam, Hélène Morisse-Pradier, Hilario Nunes, Spyros Papiris, Julie Traclet, Bruno Crestani, Serge Amsellem, Nadia Nathan, Raphael Borie, Vincent Cottin |
| OAS281 | 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 Scarpà, Wilma Wuyts, Mario Aguiar, Nicole M Armstrong, Andreas Jessel, Monica Kumar, Sara Waters, Kenneth I Berger |

**Yellow 1+2+3 Session 338 15:45 - 17:00**

**Oral presentation: Positive airway pressure for sleep-disordered breathing: adherence and outcomes**

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

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

**Tag(s):** Clinical

**Chairs:** Dries Testelmans (Leuven, Belgium), Carolina Lombardi (Milano (MI), Italy)

| OAS285 | 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 Pigeane, Sandrine Launois, Laurene Leclair-Visonneau, Philippe Masson, Acya Bizieux-Thaminy, Dany Jaffuel, Sébastien Bailly, Frédéric Gagnadoux |
| OAS286 | CPAP Reduces Circulating Vascular Endothelial Growth Factor Levels in Patients with Coronary Artery Disease and Obstructive Sleep Apnoea: The RICCADSIA Trial | Yeliz Celik (İstanbul, Turkey), Sanja Jelic, Afroz Behboudi, Daniel J. Gottlieb, Susan Redline, Yuksel Peker |
| OAS287 | 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, Rachael Gitau, Donal O'Shea, David Murphy, Jonny Dodd, Silke Ryan |
| OAS288 | Reduction in sympathetic tone in patients with obstructive sleep apnoea: Fixsed is more effective than adapted pressure. A randomised, parallel clinical trial. | Renaud Tamisier (Grenoble, France), Erika Treptow, Sébastien Bailly, Marie Destors, Sébastien Baillieul, Rita Clin, Maelle Guellerin, Audrey Guerrache, Patrick Levy, Jean Louis Pépin |
| OAS289 | Effects of peak-airflow triggered adaptive servo-ventilation on nocturnal cardiac arrhythmias in patients with heart failure and sleep apnoea | Michael Arzt (Regensburg, Germany), Christian M. Horvath, Christoph Fisser, John S. Floras, Samuel Sossalla, Stella Wang, George Tomlinson, Fiona Rankin, Clodagh Ryan, T. Douglas Bradley |
OA3290 Impact of CPAP treatment on cardiovascular outcomes: a Catalan nationwide database analysis.
Jordi de Batlle (Lleida, Spain), Esther Gracia-Lavedan, Anna Garcia-Altés, Elisenda Martinez Carbonell, Manuel Sánchez-De-La-Torre, Ferran Barbé

OA3291 REM Sleep Less Than 30 Minutes Predicts Less CPAP Use in Adults with Coronary Artery Disease and Obstructive Sleep Apnoea
Baran Balcan (Istanbul, Turkey), Patrick J Strollo Jr, Yüksel Peker

OA3292 Adherence to CPAP treatment is associated with a decrease in the incidence of cardiovascular events: an individual participant data meta-analysis

OA3293 Clinical and Economic Assessment of a Comprehensive Program to Improve Adherence of Continuous Positive Airway Pressure Treatment in Obstructive Sleep Apnea Patients in Spain: a randomized controlled trial with a Health Economic Model
Sarah Alami (Bagneux, France), David Rudilla, Hélène Pasche, Danielle C Zammit, Pablo Lázaro Y De Mercado, Pedro Landete Rodriguez

OA3294 Normalized hypercapnia is a strong predictor of survival in patients with home mechanical ventilation (HMV) - the population-based DISCOVERY study
Andreas Palm (Uppsala, Sweden), Ludger Grote, Össur Emilsson, Karin Ersson, Mirjam Ljunggren, Joseph Sundh, Magnus Ekstrom

OA3295 Discussion and Q&A
All Speakers

PS-1 in poster area Session 340 16:00 - 17:30
Poster session: Clinical problems in respiratory medicine (2)

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

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

Tag(s) : Clinical

Chairs : Shailesh Balasaheb Kolekar (Herlev, Denmark), Anne Orholm Nielsen (Gentofte, Denmark)

PA3297 What clinical factors are predictive of outcome in Primary Spontaneous Pneumothorax management?
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Mohammed Raza, Najib Rahman

PA3298 The diagnostic implications of the pleural fluid cell differentiation
Wei Wei Ee (Bristol, United Kingdom), David T Arnold, Sonia Patole, Andrew Medford, John E Harvey, Steven Walker, Nick A Maskell

PA3299 Clinical, laboratory, and radiologic markers to differentiate benign pleural effusions
Güntülü Ak (Eskişehir, Turkey), Fatmanur Korul, Selma Metintas, Huseyn Yıldırım, Muzaffer Metintas

PA3300 Differential diagnosis of pleural effusion using machine learning
Na Young Kim (Hwaseong-si, Gyeonggi-do, Republic of Korea), Boa Jang, Young-Gon Kim, Jaeyoung Cho

PA3301 Long term association between frailty and survival in patients with pleural disease
Eleanor Barton (Bristol, United Kingdom), Ben Carter, Alessia Verduri, Jessica Hughes, Jonathan Hewitt, Nick Maskell

PA3302 Impact of fluid overload on pulmonary function in Heart Failure: a cross-sectional study.

PA3303 Successful use of anti IL5 targeted therapy (Mepolizumab) in two cases of hypereosinophilic syndrome from India
Manu Chopra (Delhi, India), Suman Pramanik, Subhro Mukherjee, Meenakshi Chopra

PA3304 Ultrasound quantification versus the actual pleural fluid volume drained in patients undergoing medical thoracoscopy.
Vijayaravindh Ramachandran (Coimbatore, India), Isaac Barney, Gupta Richa, D.J. Christopher, Robinson Vimala Leena, Yadav Bijesh
PA3305 Metabolic alterations in post-COVID-19 patients with sarcopenia or sarcopenic-obesity: A cross-sectional study.

PA3306 Efecto del B-hidroxi-B-metilbutirato sobre la masa muscular en pacientes post-COVID-19: Ensayo clínico.
Angelia Jiménez Valentín (Mexico City, Mexico), Arturo Orea Tejeda, Dulce González Islas, Arturo Rodríguez Medina, Alvaro Montañez Orozco, Benigno Valderrábanos Salas, Dalía Domínguez Moya, Guiedani Galván Bautista, Pedro Carranza Muñoz, Nadia Hernández López, Rocío Sánchez Santillán, Ilse Pérez García, Fernando Casarín López


PA3308 Pulmonary artery pseudoaneurysms (PAPs) in Hughes-Stovin syndrome (HSS) a new emerging concept with potential fatal disease course.
Catherine Joy Tubig (Quezon city, Philippines), Sherwina Juljani, Ma. Encarnita Limpin, Sherwin Juljani, Ma. Encarnita Limpin, Ma. Paz Mateo, Fernando Ayuyao

PA3309 Alpha-1 antitrypsin Pi*SS genotype and risk of pulmonary disease. An EARCO Research project
Teresa Martín Rojía (Lisboa, Portugal), Catarina Guimarães, Cristina Esquinas, Maria Torres, Maria Suena, Marc Miravitlles

PA3310 Long-term follow-up of Pi*ZZ alpha-1 antitrypsin deficient patients receiving intravenous alpha-1 antitrypsin augmentation therapy
Suzanne Roche (Dublin, Ireland), Daniel D Fraughen, Malcom Herron, Ronan Heeney, Lameese Alhaddah, Emma Leacy, Lasya Kanchi, Oliver J McElvaney, Mark P. Murphy, Tomás P Carroll, Cedric Gunaratnam, Noel G McElvaney

PA3311 Hemoptysis: a retrospective analysis in a tertiary hospital of Greece
Dimitrios Potonos (Ioannina, Greece), Antonia Assioura, Konstantinos Exarchos, Antigoni Simou, Christina Aggelopoulou, Christos Kyriakopoulos, Evgenia Salla, Christos Chronis, Konstantinos Tatsis, Athanasios Konstantinidis, Athena Gogali, Konstantinos Kostikas

PA3312 Impact of thrombomodulin on mortality in hospitalized patients with COVID-19: A cohort-study
Alvaro Montañez (Mexico City, Mexico), Luz Magdaly Jimenez Gallardo, Rocío Sánchez-Santillán, Arturo Orea-Tejeda, Dulce González-Islas, Arturo Rodríguez, Dalía Domínguez-Moya, Guiedani Bautista-Galván, Benigno Valderrábanos-Salas, Pedro Carranza-Muñoz, Nadia Hernández-López, Ilse Pérez-García, Angelia Jimenez-Valentin, Mildred De La Concha-Duarte, Adrián Rosas-Trujillo, Dennis Soler-Montalvo, Laura Flores-Cisneros, Rufina Gallardo-Reyes

PA3313 What is the accuracy of pre-operative staging in identifying patients with single station N2 disease?
janet johnston (Manchester, United Kingdom), Christopher Craig, Patrick Goodley, Matthew Evison, Paul Bishop, Sarah Upperton, Matthew Callister, David Meek, Laura Sucony, Wadood Parvez, Muhammad Tufail, John Maclay, Jayasekera Geethath, Ian Woolhouse, Alana Livesey

PA3314 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 Pacielo, Raissa Toledo, Luiz Machado, Estefania Franco, Luis Brizola, Maercio Santos, Edris Savadkouhi, Camila Colombo, Suzana Tanni

PA3315 The impact of comorbidities contributing to QT prolongation in respiratory patients admitted to hospital
Aditya Adikarla (Manchester, United Kingdom), Fortune Kwushue, Benjamin Allison, Andras Bikov

PS-10 in poster area Session 341 16:00 - 17:30
Poster session: Health effects of tobacco use
Disease(s): Airway diseases, Thoracic oncology
Method(s): Epidemiology, Pulmonary function testing, General respiratory patient care, Public health, Cell and molecular biology, Imaging, Pulmonary rehabilitation
Tag(s): Clinical
Chairs: Aslı Görek Dilektaşlı (Bursa, Turkey), Chair to be confirmed

PA3317 Is nicotine dependence associated with lung function, physical capacity and sleep quality?
Nadia BEN LÀZREG (sousse, Tunisia), Khouloud Kchaoul, Ben Attig Yosra, Khedhri Manel, Ben Amar Jihene, Boudaya Saddok, Zaïbi Hafîa, Aouina Hichem
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<tr>
<th>ID</th>
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<th>Authors</th>
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<td>PA3318</td>
<td>Effects of yoga on pulmonary parameters, posture and body awareness among smokers</td>
<td>Caner Özbek (Istanbul, Turkey), Elif Develi</td>
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<td>PA3319</td>
<td>Associations of Pipe and Cigar Use with Cardiopulmonary Outcomes: The NHLBI Pooled Cohort Study</td>
<td>Pallavi P. Balte (New York, United States), Jack E. Morris, Surya P. Bhatt, Pat Cassano, David Couper, David Jacobs Jr., Ravil Kalhan, Laura Loehr, Stephanie London, Anne Newman, George O’Connor, Joseph E Schwartz, Sachin Yende, Neal D. Freedman, Tiffany R Sanchez, Elizabeth Oelsner</td>
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<td>PA3320</td>
<td>Herb vaporizers are not safe for health. Particles emissions from dry chamomile vaporization</td>
<td>Efthimios Zervas (Patra, Greece), Chara Tsipa, Niki Matsouki, Manos Konstantinidis, Zoe Gareiou</td>
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<tr>
<td>PA3321</td>
<td>A breathing human lung-on-chip to study cigarette smoke induced COPD</td>
<td>Arunima Sengupta (Bern, Switzerland), Aurélien Dorn, Nuria Roldan, Janick Stocki, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier T. Guenat</td>
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<td>PA3322</td>
<td>Effect of Second-Hand Tobacco Smoke Exposure on Lung Functions of Children with Chronic Lung Disease</td>
<td>Beste Öztezen (Ankara, Turkey), Nagehan Emiralioglu, Dilber Ademhan Tural, Suna Sabuncuoglu, Gözde Girgin, Bircе Sunman, Halime Nayir Buyukshahin, Ismail Guzelkas, Didem Alboga, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper</td>
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<td>PA3323</td>
<td>“Chance” pilot study: hospitalization's impact on patients’ smoking habit</td>
<td>Rafael Ricardo Salcedo Valenciano (Castellon, Spain), Salvador De La Torre Carazo, Esperanza Guzmán Ansado, Héctor Castro Villamor, Norman Andrés Villamaguna, Irene Macarena Garcia Salazar, Erika Maria Dais Pires, Sergio Campos Téllez</td>
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<td>PA3324</td>
<td>The Fagerström Test in current smokers with and without COPD: a cross-sectional study</td>
<td>Efthymia Papadopoulou (Thessaloniki, Greece), Anna-Bettina Haidich, Alexander G. Mathioudakis, Vasilios Karapetsas, Drosos Tsavlis, Stavros Tryfon</td>
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<td>PA3325</td>
<td>E-Cigarette : New form of smoking in Tunisia</td>
<td>Soumaya Ben Saad (Ariana, Tunisia), Jallouli Nour Lahbib, Amani Ben Mansour, Azza Slim, Hafaooua Daghfous, Fatma Tritar</td>
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<td>PA3326</td>
<td>Interrelation between smoking, obesity and surfactant protein-D in patients with acute exacerbation COPD</td>
<td>Olha Shtepa (Dnipro, Ukraine)</td>
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<td>PA3327</td>
<td>Water pipe smoking and Lung cancer, A case control study in Iran</td>
<td>Zahra Hessami (Tehran, Islamic Republic of Iran), Sogol Sobhani, Gholamreza Heydari</td>
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<td>PA3328</td>
<td>Despite substantial decrease of smoking, exposure to passive smoking remains a risk factor for asthma and wheeze in children</td>
<td>Linnea Hedman (Luleå, Sweden), Helena Backman, Pablo Sundvall, Martin Andersson, Eva Rönmark</td>
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<td>PA3329</td>
<td>Pneumothorax in tobacco and cannabis smokers in the Agadir region</td>
<td>Oussama HALLOUMI (AGADIR, Morocco), Khadija Aitnasser, Fatiha Bounoua, Aboubakr Imzil, Abdelkrim Khamnous, Younes Essaid, Abdelmajid Oulahbib, Nada Bouthagha, Hanane Ikrou, Sofia Farhat, Houssam Ennaceri, Houda Moubachir, Hind Serhane</td>
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<td>PA3330</td>
<td>Tobacco use among ICU patients with Candida auris infection in COVID 19 referral hospital.</td>
<td>Stamatoula Tsikrika (Athens, Greece), Asimina Raftopoulou, Vasiliki Nanou, Marina Asmanidou, Theoni Agapitou, Anastasia Kosmidou, Aristeia Christou, Eirini Mikrovasili, Evangelos Stefanidis, Gerasimos Mextas, Ioannis Nikolopoulos</td>
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<td>PA3331</td>
<td>Relationship between smoking status and inflammation markers in adolescents.</td>
<td>Khurshidbek Tashmetov (Ташкент, Uzbekistan), Naima Ubaydullaeva</td>
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<td>PA3333</td>
<td>Changes in violations at tobacco point of sales between 2015 – 2022 in Istanbul</td>
<td>Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Tanzer Gezer, Osman Elbek, Pinar Ay, Fusat Yildiz, Banu Salepeki, Pinar Bostan</td>
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<td>PA3334</td>
<td>Profile of child labourers in a rural area of West Bengal: A Cross sectional study</td>
<td>Himanish Roy (Kolkata, India)</td>
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<td>PA3335</td>
<td>Early use of oral moist tobacco as related to respiratory symptoms: a cross-sectional analysis from the RHINESSA study</td>
<td>Juan Pablo López-Cervantes (Bergen, Norway), Christer Janson, Simone Accordini, Vivi Schlinssen, Randi J. Bertelsen, Cecilie Svanes</td>
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### Poster session: Occupational upper and lower airway diseases

**Disease(s):** Airway diseases, Interstitial lung diseases  
**Method(s):** Epidemiology, Public health, Pulmonary function testing, Cell and molecular biology, General respiratory patient care, Imaging  
**Tag(s):** Clinical  
**Chairs:** Sara De Matteis (Cagliari, Italy), Orianne Dumas (Villejuif, France)

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<tr>
<td>Disease-specific mortality related to occupational exposure in Helsinki, Finland</td>
<td>Juuso Jalasto (Helsinki, Finland), Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönnmark, Anssi Sovijärvi, Päivi Piirilä, Paula Kauppi</td>
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<td>PA3338 Global burden and trends of mortality and disability-adjusted life years for malignant and chronic respiratory disease attributable to occupational exposures, from 1990 to 2019: results from the Global Burden of Disease study 2019</td>
<td>Widgan Farah (Rochester, United States), Oluwateniayo Ogunsan, Zhen Wang, Yewande Odeyemi</td>
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<td>PA3339 Mortality associated with occupational exposures among people with small airways obstruction</td>
<td>Valentina Quintero Santofimio (London, United Kingdom), Cosetta Minelli, James Potts, Roel Vermeulen, Hans Kromhout, Ben Knox-Brown, Johanna Feary, Andre F.S Amaral</td>
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<td>PA3340 Household use of cleaning products and asthma control</td>
<td>Emilie PACHECO DA SILVA (Villejuif, France), Raphaëlle Varraso, Anne-Marine Lenzotti, Léopold Feuzeu, Guillaume Sit, Pilar Galan, Serge Hercberg, Mathilde Touvier, Christophe Paris, Orianne Dumas, Nicole Le Moual</td>
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<td>PA3341 Household use of irritants and sprayed cleaning products and asthma endotypes</td>
<td>Emilie PACHECO DA SILVA (Villejuif, France), Rachel Nadif, Eddy Dohoukpe, Laurent Orsi, Joane Quentin, Raphaëlle Varraso, Valérie Siroux, Orianne Dumas, Nicole Le Moual</td>
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<td>PA3342 The association of current asthma and exacerbation of asthma with using cleaning, disinfecting, and medical products in healthcare</td>
<td>Paul K. Henneberger (Morgantown, United States), Steven M. Rollins, Michael J. Humann, Xiaoming Liang, Feng-Chiao Su, Mohammed A. Virji</td>
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<td>PA3343 Assessment of small airways by impulse oscillometry in hospital cleaning staff</td>
<td>Bilun Gemicioglu (Istanbul, Turkey), Betül Gültekin, Nejdiye Güngördü, İlğım Vardaloglu, Kevser Sak</td>
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<td>PA3344 Long-term clinical outcome of irritant-induced asthma</td>
<td>Hille Suojalehto (Helsinki, Finland), Jussi Lantto, Irmeli Lindtröm</td>
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<td>PA3345 Occupational exposures to irritants and asthma in the CONSTANCES Cohort</td>
<td>Orianne Dumas (Villejuif, France), Guillaume Sit, Laurent Orsi, Yuriko Iwatsubo, Brigitte Dananché, Florence Orsi, Marcel Goldberg, Bénédicte Leynaert, Rachel Nadif, Céline Ribet, Nicolas Roche, Yves Roquelaure, Raphaëlle Varraso, Marie Zins, Corinne Pilorget, Nicole Le Moual</td>
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<td>PA3346 Zintec coated steel, a cause of occupational asthma in welders</td>
<td>Vicky moore (Coventry, United Kingdom), Gareth Walters, Alastair Robertson, Sherwood Burge</td>
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<td>PA3347 Thymic stromal lymphopoietin contributes to ozone-induced pulmonary responses in mice</td>
<td>Hiroki Tashiro (Saga, Japan), Yuki Kurihara, Koichiro Takahashi, Yoshie Konomi, Shinya Kimura, Sueoka-Aragane Naoko</td>
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<td>PA3348 Asthma control in severe asthma and occupational exposures to inhaled asthmagens</td>
<td>Gareth Walters (Birmingham (West Midlands), United Kingdom), Christopher Reilly, Nicole Le Moual, Christopher Huntley, Hanan Hussein, Thirumala Krishna, Adel Mansur</td>
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<td>PA3349 Occupational exposures and asthma control among adults from Northern Finland</td>
<td>Maritta S. Jaakkola (Oulu, Finland), Penpatra Sribaiboonkij, Henna Hyrkäs-Palmu, Jouni J.K. Jaakkola</td>
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<td>PA3350 Respiratory health among operators working in polymer additive manufacturing</td>
<td>Anna-Carin Olin (Göteborg, Sweden), Ann-Charlotte Almstrand, Anna Bredberg, Gunilla Runström, Helen Karlsson, Maria Assenhög, Hatice Koca Akdeve, Håkan Tinnerberg</td>
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**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 Wiggins (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 Yüksel Yavuz, Nejdiye Güngördü

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**Poster session: The bugs in lung transplantation**

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

**Method(s)**: Pulmonary function testing, Transplantation, Cell and molecular biology, Endoscopy and interventional pulmonology, Imaging, Respiratory intensive care

**Tag(s)**: Clinical

**Chairs**: Vicky Gerovasili (Rickmansworth, United Kingdom), Chair to be confirmed

**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 Jaksch, Konrad Hötzenecker, 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 Brixi, 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 lung function in lung transplant recipients: a single-center retrospective study**
Brice Touilloux (Fribourg, Switzerland), Matthaios Papadimitriou-Olivergeris, Cédric Bongard, Nahal Mansouri, Foteini Ioakeim, John-David Aubert, Oriol Manuel, Angela Koutsokera, 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 of lung transplant candidates
Paolo Meani (Milan, Italy), Vittorio Scaravilli, Silvia Scansani, Letizia Morlacchi, Valeria Rossetti, Marco Vicenzi, Gloria Turconi, Valeria Musso, Amedeo Guzzardella, Mario Nosotti, Francesco Blasi, Giacomo Grasselli

Late Breaking Abstract - High burden of early complications in outcome of lung transplantation for non-cystic fibrosis bronchiectasis
Sixtine Decaux (Paris, France), Antoine Roux, Hervé Mał, Matthieu Glorion, Sandra De Miranda, Edouard Sage, Vincent Bunel, Yves Castier, Arnaud Roussel, Philippe Montravers, Pierre Mordant, Jonathan Messika

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 Jonik, Jens Gottlieb, Jonas Christian Schupp

PS-13 in poster area Session 344 16:00 - 17:30
Poster session: Effects of CFTR modulator therapy in cystic fibrosis
Disease(s): Airway diseases
Method(s): General respiratory patient care Imaging Pulmonary function testing Surgery Physiology Epidemiology Cell and molecular biology Transplantation
Tag(s): Clinical
Chairs: Stojka Fustik (Skopje, North Macedonia), Chair to be confirmed

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

Impact of Kaftrio on exercise capacity in children with Cystic Fibrosis
Molla Imamuddin Ahmed (Leicester (Leicestershire), United Kingdom), Natalie Blyth, Joe Madge, Erol Gaillard

Cystic fibrosis transmembrane regulator modulator therapies effect on liver function in Bulgarian patients
Dilyana Petkova (Sofia, Bulgaria), Mila Baycheva, V Petkova, Vera Papochieva, Kristin Genkova, Yana Andonova, Ivaylo Nikolov, Polina Shahid, Dimitrinka Miteva, Guergana Petrova

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

Modulatory therapy experience in patients with cystic fibrosis in Turkey: A multi-center study

Correlations between in-vitro and clinical drug response to CFTR modulators
Rafat Jerjen (Toronto (ON), Canada), Sanja Stanojevic, Tarini Gunawardena, Theo Morais, Tanja Gonska, Paul Eckford, Christine Bear

Nutritional status of cystic fibrosis patients under CFTR modulators therapy - a 6 months experience
Mihaela Dediu (Timisoara, Romania), Diana Popin, Liviu Laurentiu Pop, Ioana Mihaiela Ciucu

Impact of elexacaftor/tezacaftor/ivacaftor on chronic rhinosinusitis in children with cystic fibrosis.
Beatrice Della Gatta (Torino, Italy), Lucia Ronco, Federica Peradotto, Elisabetta Bignamini
Description of the variations in airway colonization in patients with cystic fibrosis in treatment with the combination of Ivacaftor, Tezacaftor and Elexacaftor (ITE)
Jonathan Benito Patón (TORRENT, Spain), Sergio Iniesta González, Claudia López Pavia, Teresa Pérez Sanz, Lucia González Álvarez, Jose Vicente Arcos Machancoses, Elena Crehuá Gaudiza, Silvia Castillo Corullón

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, Aleksandra Zver, Uroš Krivec

The long-term respiratory effect of Elexacaftor/Tezacaftor/Ivacaftor in people with cystic fibrosis
Mohamad Hadhud (jerusalem, Israel), Joel Reiter, Alex Gileles-Hillel, Ido Sadas, Eitan Kerem, Malena Cohen-Cymerknoh, Oded Breuer

CFTR-modulator therapy effect assessed by CT and MBW in infants and toddlers with CF
Rikke Sandvik (Copenhagen, Denmark), Yuxin Chen, Marianne Skov, Frederik Buchvald, Lotte Borgwardt, Taçiana 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, Constantina Costi, Andreas Matthaiou, Tony Adamidi, Leonidas Phylaktou, Vassos Neocleous, Panayiotis Yiallourous

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

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

Investigation of psychometric properties of De-Morton Mobility Index in the intensive care survivors
Büsra Turgut (Izmir, Turkey), Ilknur Naz, Ozlem Edipoglu, Cenk Kirakli

Tissue oxygen saturation of quadriceps muscle for critically ill patients receiving mechanical ventilation
Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Ryuji Sugiyama, Yusuuki Nagae, Yuichi Tawara, Masashi Shiraiishi, 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

Investigation of the relationship between respiratory muscle strength and functional capacity in patients undergoing oncological abdominal surgery
Fatma Rüneya Kasap (Ankara, Turkey), Naciye Vardar Yaglı, Melda Saglam, Deniz Inal Ince, Ebru Calık Kutukcu, Derya Karakoc, Erhan Hamaloglu

National observational study of first mobilization after cardiac surgery
Elisabeth Westerdahl (Örebro, Sweden), Johanna Lilliecrona, Monika Fagevik Olsén
PA3395  Impact of cancer treatment on physical performance in early-stage non-small cell lung cancer
Kirsten Quadflieg (Hasselt, Belgium), Eva 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

PA3396  Symptoms experienced by people with lung, head and neck cancer during an exercise training program delivered as a complementary treatment to usual care

PA3397  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, Knut Stavem, Hege Holmo Johannessen

PA3398  Heart Rate Recovery and Chronotropic Response on Exercise in Colorectal Cancer Survivors
Mehmet Fatih Sanver (Kütahya, Turkey), Naciye Vardar Yaglı, Melda Saglam, Ebru Calik Kutukcu, Deniz Inal Ince, Saadettin Kilickap

PA3399  6MWT and ISWT: Levels of agreement between different in-person and remote testing procedures in lung transplant candidates
Lisa Wickerson (Toronto (ON), Canada), Manoela De Paula Ferreira, Dmitry Rozenberg, Sunita Mathur, Lianne Singer

PA3400  Patient experience with fully remote inspiratory muscle training device
Martin Dvořáček (Bouzov, Czech Republic), Pavla Horová

PA3401  Investigation of respiratory muscle strength and pulmonary functions in patients with neuropsychiatric disorder
Furkan Özdemir (Ankara, Turkey), Naciye Vardar Yaglı, Betül Tufanoğlu, Belda Çağlayan

PA3402  Dyspnea impacts right emotional cerebral blood flow
Kazuhiro Kimpara (hamamatsu, Japan), Shinichir Arizono, Yuichi Tawara, Natsumi Tanaka, Maki Takayama, Daiki Takahashi

PA3403  Remotely delivered pulmonary rehabilitation assessments - a quality improvement project to tackle long pulmonary rehabilitation waiting list at King’s College Hospital
Maria Kouloupoulou (London, United Kingdom), Victoria Meyrick, Michelle Johnson, Charles Reilly, Arun Shuressh Kumar, Peter Cho, Caroline Jolley, Savannah Ramos-Smith

PA3404  Development of theoretically informed audit and feedback to improve asthma self-management in UK primary care
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Kirstie McClatchey, Aimee Sheldon, Liz Steed, Jessica Sheringham, David Price, Stephanie Je Taylor

PA3405  Asthma in Brazil: an epidemiological analysis from 2008 to 2021
David Halen Araújo Pinheiro (São Paulo, Brazil), João Victor Hermógenes De Souza, Fabiano Francisco De Lima, Alberto Fernando Oliveira Justo, Vitoria Zacarias Cervera, Regina Maria Carvalho-Pinto, Celso R F Carvalho

PA3406  Respiratory Functions, Respiratory Muscle Strength, and Postural Abnormalities in Patients with Temporomandibular Joint Dysfunction
Seda Saka (Istanbul, Turkey), Musab Deniz, Deniz Tuncer

PS-15 in poster area  Session 346  16:00 - 17:30
Poster session: COVID-19 diagnostics and pathogenesis
Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory/critical care
Method(s) : Epidemiology, Public health, General respiratory patient care, Imaging, Pulmonary function testing, Cell and molecular biology, Respiratory intensive care
Tag(s) : Clinical
Chairs : Mattia Nigro (Opera (MI), Italy), Dumitru Chesov (Chisinau, Republic of Moldova)

PA3407  Breath of Health: Spectroscopy Breath Test for the Detection of SARS-CoV-2
Dan Padawer (Jerusalem, Israel), Mutaz Karameh, Abed Qadan, Aria Laor, Zvi G Fridlender

PA3408  Role of Artificial-Intelligence Powered Digital-Health in Reducing Strain on Health-Care-System: First of Its Kind experience in COVID-19 Pandemic.
Aman Ahuja (Vellore, India), Pawan Singh, Dhruva Chaudhry

PA3409  PCR PERFORMANCE FOR SARS-CoV-2 PRIOR TO RESPIRATORY FUNCTION TESTS AND THE RELATIONSHIP WITH CONTAGION RATES.
Maria Zuil Moreno (Lleida, Spain), Faty B.A. Seck-Mboup, Sally Santisteve, Maria Aguilá, Mar Malla-Bañeres, Iván D. Benítez, Rosa Sarrat, Adriana Sabaté, Adriana Fulga, Clara Gort-Paniello, Ferrán Barbé, Jessica González
<table>
<thead>
<tr>
<th>PA3410</th>
<th>Effect of a Functional Phospholipid Metabolome-Protein Association Pathway on the Mechanism of COVID-19 Disease Progression</th>
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<tbody>
<tr>
<td>Baoqing Sun (Guangzhou (Guangdong), China), Mingshan Xue, Teng Zhang, Zhangkai J Cheng, Baojun Guo, Yifeng Zeng, Runpei Lin, Petyun Zheng, Mengtiao Liu, Qi Zhao, Xiaoping Tang</td>
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<tr>
<th>PA3411</th>
<th>Single-cell RNA sequencing of bronchoalveolar lavage fluid reveals potential increase in antigen presentation pathways and cellular immunity in airways of pulmonary long COVID</th>
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<tbody>
<tr>
<td>Elizabeth Guinto (Vancouver, Canada), Firoozeh V. Gerayeli, Stephen Milne, Rachel L. Eddy, Tara Stach, Chen Xi Yang, Xuan Li, Chang Yan Cheung, Julia Shun-Wei Yang, Janice M. Leung, Don D. Sin</td>
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<tr>
<th>PA3412</th>
<th>NEBULIZATION AND COVID-19: THE RISK OF SPREAD DURING A NEBULIZATION SESSION IS ACTUALLY</th>
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<tr>
<td>Christophe Thibon (Bruxelles, Belgium), Laurent Vecellio, Leila Belkhir, Jean-Christophe Dubus, Annie Robert, Benoit Kabamba, Grégoire Reyehler</td>
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<tr>
<th>PA3413</th>
<th>Omicron BA.5 - 5 days of isolation during hospital admission, is it enough?</th>
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<tr>
<td>Ana Rita Ribeiro (Ansião, Portugal), Catia Saraiara, Marta Domingos, Daniela Louro, Domitília Faria</td>
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<tr>
<th>PA3414</th>
<th>Risk factors for COVID-19: A test-negative case-control study</th>
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<tr>
<td>Marjut Sarjomaa (Skien, Norway), Randi Eikeland, Chi Zhang, Yingvar Tveten, Harald Reiso, Carina Thilen, Svein Arne Nordbo, Kristine Karlsrud Berg, Ingeborg Aase S. Aaberge, Johny Kongerud, Neil Pearce, Hege Kersten, Jan P. Vandenbroucke, Anne Kristin Moller Fell</td>
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<tr>
<th>PA3415</th>
<th>Symptomatic prolonged viral shedding in long COVID - Our experience with remdesivir</th>
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<tr>
<td>Leng Cheng Sia (Kuala Lumpur, Malaysia), Yong-Kek Pang, Chee Kuan Wong, Chun Ian Soo, Nur Husna Ibrahim, Vijayan Munusamy, Thian Chee Loh, Ka Kiat Chin, Mau Ern Poh, Jiunn Liang Tan, Chong-Kin Liam</td>
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<tr>
<th>PA3416</th>
<th>Incidence of viral respiratory infections, excluding SARS-CoV-2, during COVID-19</th>
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<tr>
<td>Souid Fatima zahra (Alger, Algeria), Zeruiki Ali, Benarfa Noumaira, Tareb Djouher, Chaabani Madjid, Bensersa Doria, Aougoune Nadjet, Nemr Abdellkader, Nebih Mounir, Sebahi Hamza</td>
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<tr>
<th>PA3417</th>
<th>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</th>
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<tr>
<td>Jan Michael Lo (Dasmarinas City, Philippines), Jener De Castro, Jennifer Sison-San Luis</td>
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<tr>
<th>PA3418</th>
<th>Post COVID-19 HRCT features related to inpatient ward therapy history: A preliminary study</th>
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<tr>
<td>Laharsa Madision (Jakarta, Indonesia), Dianiai Kusumo Sutoyo, Fanny Fachrucha, Aziza Ghanie Icksan</td>
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<tr>
<th>PA3419</th>
<th>Clinical epidemiological study of hospitalized patients with severe COVID-19 – current data</th>
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<tr>
<td>Elena Borissova (Pleven, Bulgaria), Snejanka Ivanovska, Plamen Pavlov, Pavлина Glogvska</td>
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<th>PA3420</th>
<th>Healthcare associated infections on a respiratory ward in Athens during the Covid-19 pandemic</th>
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<tr>
<td>Iris-Theodora Vlachantoni (Athens, Greece), Romina Chatzipetrou, Anastasia Levounets, Erini Skontzou, Andrea Kyriacou, Lamprini Vlassi, Chrysia Kontogianni, Konstantinos Samitas, Zafeiris Sardelis, Evangelos Markozannes, Theoplogi Ghrigoratou, Eleftherios Zervas, Lykourgos Kolilekas</td>
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<tr>
<th>PA3421</th>
<th>Validity and reliability evidence of Fear of COVID-19 Scale in Greek people with Chronic Obstructive Pulmonary Disease.</th>
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<tr>
<td>Andreas Daskalakis (N. Smyrni - Athens, Greece), Stavroula Giannoulaki, Irini Patsaki, Maria Moutzouri, George Koundantakis, Aiakaterini Hantotou, Afroditi Evangelodimou, Irini Grammatopoulou</td>
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<tr>
<th>PA3422</th>
<th>Lung ultrasonography in post-COVID-19 follow-up in correlation with chest computed tomography.</th>
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<tr>
<td>Katazyna Zimna (Warszawa, Poland), Malgorzata Sobiecka, Dorota Wyrostkiewicz, Monika Szumtowicz, Witold Tomkowski</td>
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<tr>
<th>PA3423</th>
<th>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</th>
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<tr>
<td>Franck Rahaghi (Weston, United States), Estela Pineda, Mari Tesch, Farbod Rahaghi, Fernando Valerio-Pascua</td>
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<tr>
<th>PA3424</th>
<th>Late Breaking Abstract - Association with changes in pulmonary artery diameters and outcomes before, during and after COVID-19 hospitalization:Retrospective Study</th>
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<tr>
<td>Aybuke Selcuk (Berlin, Germany), Derya Kocakaya, Şehnaz Olgun Yildizeli, Sait Karakurt</td>
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<tr>
<th>PA3425</th>
<th>Late Breaking Abstract - Increased SARS-CoV-2 infection in asthmatic primary bronchial epithelial cells defined with single cell RNA-sequencing</th>
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<tr>
<td>Matt Johansen (Camperdown, Australia), Sobia Idrees, Fia Boedijono, Stefan Miemczyk, Duc Nguyen, Kristy Nichol, Peter Wark, Ailen Faiz, Philip Hansbro</td>
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</table>
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, Lieuwe Bos, W. Jost Wiersinga, Hessel Peters-Sengers, Tom Van Der Poll

PS-16 in poster area  Session 347  16:00 - 17:30
Poster session: Pleural malignancy at the cutting edge: clinical studies, translation, and mechanisms

Disease(s) : Thoracic oncology, Airway diseases
Method(s) : General respiratory patient care, Epidemiology, Endoscopy and interventional pulmonology, Surgery, Cell and molecular biology, Physiology, Palliative care, Imaging
Tag(s) : Translational
Chairs : Selina Tsim (Glasgow (Glasgow), United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom)

PA3427 Comparing the Success Rate of Pleurodesis with Thoracoscopic Talc Poudrage Combined with Indwelling Pleural Catheter versus Thoracoscopic Talc Poudrage in Patient with Malignant Pleural Effusion, A Randomized, Non-inferiority Clinical Trial
Jitamong Soorlek (Bangkok, Thailand), Vorawut Thanhitaweewat

PA3428 Symptom-guided drainage and autopleurodesis rates in patients with Indwelling Pleural Catheters (IPCs) for malignant pleural effusions
Isaac Fong (Singapore, Singapore), Wui Mei Chew, Kah Yee Tham, Marnie Tamayo Gutierrez, Aza Taha, Sandra Hui, Imran Bin Mohamed Noor

PA3429 Getting the basics right. Optimal catheter size for the pleurodesis of recurrent malignant pleural effusions
Dimitris Lioumpas (Athens, Greece), Evdokia Tzatzadaki, Konstantinos Stefanidis, Evangelos Fergadis, Stylianos Michelis, Ioannis Provatas, Georgios Gkantinas, Theodoros Fachouridis, Ioannis Stamatakis, Theoni Kiknadze, Antonios Katsantonis, Georgios Anagnostopoulos, Georgios Benakis, Antonios Antoniadis, Nikolaos Tzatzadakis, Efthathios Metaxas

PA3430 Ultrasonography-guided Pleural Biopsy for the Diagnosis of Pleural Effusion, An Observational Prospective Multicentric Study
Gang Hou (Beijing, China), Mingming Deng

PA3431 Cell block in malignant pleural fluids- a safe tool in the evaluation of histopathological predictive factors.
Daniela Xhemalaj (Tirana, Albania), Fatmir Caushi, Ilir Skenduli, Jonida Tula, Elona Hysenbelli, Jolanda Nikolla, Elvina Kozma, Elona Hila, Silva Bala

PA3432 Determining the clinical utility of a breath test to screen an asbestos-exposed population for pleural mesothelioma.
Kathleen Zwijsen (Wilrijk, Belgium), Joris Van Cleemput, Caroline Jonckheere, Tom Richart, Kristiaan Nackaerts, Veerle Surmont, Jan P. Van Meerbeeck, Kevin Lamote

PA3433 Cutting-edge tools for lung cancer-related pleural effusion detection
Tan Shu Feng (Serang, Malaysia), Ummi Nadira Daut, Jamalul Azizi Bin Abdul Rahaman, Mohammad Zulkarnain Bidin, Siti Hajar Binti Umar

PA3434 An update regarding the Meso-ORIGINS study: part of the PREDICT-Meso International Accelerator
Mark Neilly (Glasgow, United Kingdom), Selina Tsim, John Maclay, Rocco Bilancia, Anna Bibby, Timothy Gatheral, Alina Ionescu, Andrew Griffiths, Avisna Aujayeb, Najib Rahman, Janet Fallon, Christopher Craig, Michelle MacDougall, John Corcoran, Rakesh Panchal, Mahendra Chetty, Kevin Lamote, Gordon Cowell, Crispin Miller, Robert Rintoul, Jan Van Meerbeeck, Joshua Roche, Alexandrea Macpherson, Laura Alexander, Julie Roberts, Jacques Goulay, Joanne McGarry, Nicola Walker, Kevin Blyth

PA3435 Dactinomycin could prime immune cell therapy via activation of tumour cell STING
Yu Zhao (Headington, Oxford, United Kingdom), Nikolaos I Kanellakis, Yanchun Peng, Beibei Wang, Adan Pinto Fernandez, Megat Bin Abd Hamid, Xuan Yao, Elie Antoun, Simeon Draganov, Tao Dong, Najib M Rahman

PA3436 Patient-derived organoids of malignant pleural mesothelioma
Francesca Gonnelli (Ancona, Italy), Luca Volpini, Federica Monaco, Marco Tomasetti, Francesca Barbisan, Gaia Goteri, Lory Santarelli, Lina Zucatosta, Federico Mei

PA3437 Primary cilium associated BBsome gene expression during inflammatory stress in mesothelial cells and primary mesothelioma cells.
Erasmia Rouka (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Sotiris Sinis, Eleftherios Papazoglou, Rania Kotsiou, Chrissy Hatzoglou, Konstantinos Gourgouliannis, Sotirios Zarogiannis
PA3438 Phenotype and characterisation of the immunosuppressive mechanisms of malignant pleural effusion fluid
Nikolaos I. Kanellakis (Oxford, United Kingdom), Yu Zhao, Zheqing Zhang, Megat Abd Hamid, Yanchun Peng, Tao Dong, Najib M. Rahman

PA3439 Multicenter analysis of procedural burden and diagnostic delay in patients with malignant pleural effusions
Louis Yeung (Sydney, Australia), Simon Graffen, Jonathon Parker, Andrew Oaten, Vineeth George

PA3440 Seven year retrospective analysis of the pleural procedure service at Singleton hospital
Jennifer Park (Swansea, United Kingdom), Matthew Renwick, Mohammad Sanim Yasar, Narendrababu Rampura Chinnappa

PA3441 Understanding trends of malignant pleural effusion and ascites in metastatic intra-abdominal cancers
Beenish Iqbal (Oxford, United Kingdom), Anand Sundaralingam, Dinesh Addala, Poppy Denniston, Suzy Guo, Rob Hallifax, Najib M Rahman

PA3442 Prevalence and clinical significance of non-expandable lung in malignant pleural effusion in Asians
Charles Wong (Hong Kong, Hong Kong), Hei-Shun Cheng, Chun-Wai Tong, Pui-Hing Chiu, Flora Pui-Ling Miu, Loretta Yin-Chun Yam

PA3443 Clinical characteristics of pleural effusion with exudative and transudative borderline properties
Akiko Sano (Osaka, Japan), Hiroyuki Sano, Osamu Nishiyama, Yuji Tohda, Hisako Matsumoto

PA3444 The continued burden of pleural mesothelioma: a review of 10 years experience at this hospital Trust
Qasim Gohir (Telford, United Kingdom), Julia Mcadam, Emma Crawford, Olivia Boshier, Muhammad Saleem, Koothalai Srinivasan, Harmesh Moudgil

PA3445 Malignant pleural mesothelioma. Description of 70 cases in the last decade.
Fernando Garcia Prieto (Getafe, Spain), Sara Calero Pardo, María Teresa Rio Ramirez, Cristina Matesanz López, Jose Maria Diaz García, Beatriz Raboso Moreno, Araceli Abad Fernandez

PS-17 in poster area Session 348 16:00 - 17:30
Poster session: Comprehensive management in pulmonary fibrosis

Disease(s) : Interstitial lung diseases, Sleep and breathing disorders, Airway diseases
Method(s) : General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Physiology, Public health, Epidemiology, Imaging, Transplantation
Tag(s) : Clinical

Chairs : Martina Koziar Vasakova (Praha 10, Czech Republic), Thomas Skovhus Prior (Egå, Denmark)

PA3446 Trends in lung transplantation (L.Tx) in Spain among patients suffering or not from IPF (2016 -2020)
Ana Isabel Higes Diaz (Madrid, Spain), Belén Lopez-Muñiz Ballesteros, Christian Alonso Correa Gonzalez, Cristina Sánchez Fernández, Rodrigo Jiménez Garcia, Ana Lopez De Andres, Javier De Miguel Diez

PA3447 Dyspnea scale and 1-min sit-to-stand test can predict frailty status in interstitial lung disease patients
Keiji Oishi (Ube, Japan), Maki Asami-Noyama, Tasuku Yamanoto, Kazuki Hamada, Ryo Suetake, Syuichiro Ohata, Kenji Sakamoto, Yoriyuki Murata, Yoshikazu Yamaji, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

PA3448 Combined scores from cardiopulmonary exercise tests can predict mortality in patients with interstitial lung disease
Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng

PA3449 Lung dysbiosis index as a biomarker for interstitial lung disease
Kristel Sølland Knudsen (Bergen, Norway), Rune Nielsen, Xenia Roda, Gunnar Reksten Husebø, Andreu Paytuvi, Walter Sanseverino, Sverre Lehmann, Tomas Mikal Eagan

PA3450 Antacid and patient survival in idiopathic pulmonary fibrosis
Jin-Young Huh (Republic of Korea, Jin Woo Song

PA3451 Investigation of pepsin levels in bronchial lavage in patients with interstitial lung disease and chronic cough
Selen Ala (Samsun, Turkey), Nurhan Köksal, Bahattin Avci, Tibel Tuna, Yusuf Taha Güllü

PA3452 The eating and drinking experience in patients with IPF: a qualitative study
(, ), Chris Ward, Ian Forrest, Michael Drinnan, Joanne M Patterson

PA3453 NUTRITIONAL STATUS IN IDIOPATHIC PULMONARY FIBROSIS
Esther Sánchez Alvarez (Málaga, Spain), Eva B. Cabrera Cesar, Rocio Fernández Jiménez, Francisco Espildora Hernandez, José Manuel García Almeida, Jose Luis Velasco Garrido
Co-designing a Core Outcome Set for and with patients with Pulmonary Fibrosis (COCOS-IPF project): a joint patient-professional effort


PA3455 Trajectories of health-related quality of life (HRQL) in patients with idiopathic pulmonary fibrosis (IPF)
Amy Olson (Ridgefield, United States), Jamie L Todd, Laurie D Snyder, Peide Li, Megan L Neely

PA3456 Utility of EXACT®, a patient-reported outcome instrument, for idiopathic pulmonary fibrosis-related cough
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Thomas Sciascia, Toby Maher, Philip L. Molyneaux

PA3457 Cough monitoring and quality of life in patients with interstitial lung diseases measured by a smartphone application-based technique
Byoung Soo Kwon (Seoul, Republic of Korea), Dayeon Han, Catherine Song, Jiyoung Jung, Jong Sun Park

PA3458 Characteristics of idiopathic pulmonary fibrosis-associated cough. A case-control study
Eeva Saari (Kuopio, Finland), Minna Mononen, Hannele Hasala, Anne Lätti, Johanna Kaulamo, Hanna Nurmi, Riitta Kaarteenaho, Minna Purokivi, Heikki 0 Koskela

PA3459 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 Vujičić

PA3460 Effect of BI 1015550, a preferential PDE4B inhibitor, on FEV1/FVC ratio in IPF
Vincent Cottin (Lyon, France), Arata Azuma, Toby M Maher, Claudia Valenzuela, Marlies S Wijsenbeek, Yi Liu, Susanne Stowasser, Donald F Zoz, Luca Richeldi

PA3461 The extent of emphysema plays a role in morbidity-mortality in patients with CPFE and IPF
Filippo Gozzi (Modena, Italy), Jaume Bordas-Martinez, Naiara Santos-Erice, Guadalupe Bermuda-Peloche, Cristiano Tebé-Cordomi, Marta Lopez-Sanchez, Stefania Cerri, Enrico Clini, Salud Santos-Pérez, Maria Molina-Molina, Vanesa Vicens-Zygmun

PA3462 Comparison of emphysematous COPD patients with or without Combined Pulmonary Fibrosis and Emphysema (CPFE)
Muzaffer Onur Turan (Izmir, Turkey), Sebnem Karasu, Ceyda Anar, Bunyamin Sertogullarindan

PA3463 Win ratio approach to assessing the effect of nintedanib on a hierarchical composite endpoint in patients with progressive pulmonary fibrosis
Kevin R Flaherty, Yoshikazu Inoue, Dirk Koschel, Jin Woo Song, Corinna Miede, Michel Oldenburg, Martin Kolb

PA3464 Relevance of the systematic sleep study on idiopathic pulmonary fibrosis (IPF)
Jaume Bordas Martinez (barcelona, Spain), Neus Salord Oleo, Venesa Vicens Zygmunt, Rosana Blavia Aloy, Sandra Pérez Ramos, Eliseo Prado Gala, María D. Calvo Sánchez, Ana Montes-Worboys, Guadalupe Bermuda Peloche, Salud Santos Pérez, Carmen Monasterio Ponsa*, María María Molina Molina* (* Equal Contribution)

PA3465 Impact of air pollution on survival in idiopathic pulmonary fibrosis according to the MUC5B polymorphism
Lucile Sese (Paris, France), Raphaël Borie, Caroline Kammeiess, Vincent Cottin, Dominique Israel-Biet, Bruno Crestani, Jacques Cadranel, Cécile Chenivesse, Stéphanie Guillo-Dudoret, Dominique Valeyre, Isabella Annesi Maesano, Hilario Nunes
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 Castelli, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieude, Liam Galvin, Klaus Geissler, Clive Green, Joseph Jacob, Steve Jones, Andreas Krause, Preston Long, Britta Maurer, Erika Mosor, Toby M Maher, Polina Pchelnikova, Jef Van Rompay, Nelleke Tak, Jeska De Vries-Bouwstra, Claudia Valenzuela, Marlies Wijsenbeek, Anna Maria Hoffmann-Vold

Screening for ILD in RA: a survey of 1132 patients with RA
Anna Maria Hoffmann-Vold (Oslo, Norway), Katerina Antoniou, Jerome Avouac, Elisabeth Bendstrup, Graham Brown, Ivan Castelli, Santos Castañeda, Vincent Cottin, Bruno Crestani, Philippe Dieude, Liam Galvin, Joseph Jacobs, Steve Jones, Andreas Krause, Preston Long, Britta Krause, Erika Mosor, Toby M Maher, Polina Pchelnikova, Nelleke Tak, Jeska De Vries-Bouwstra, Claudia Valenzuela, Marlies Wijsenbeek, Michael Kreuter

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 (Taiichung, 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 Bjørkjerkaer, Cathrine Brunborg, Cosmino Bruni, Phuong Phuong Diep, Rucsandra 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
Sheila 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, Masataka Kuwana

The Feasibility of Home Spirometry and Oximetry Monitoring In Patients With Intersstitial Lung Disease
Wan Lin Ng (Dublin, Ireland), Anja Schweikert, Rebecca Borton, Donough Howard, Laura Durcan, Kiliain 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 Aaløkken, 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 Mák, Veronika Müller

Living with chronic cough: experiences, burden and management in ILD – a qualitative Study
Shirley Quach (Concord, Canada), Renata Mancopes, Dina Brooks, Ana Oliveira

Argentina: autoimmune and interstitial lung disease: EPIMAR 2 baseline data
Juan Ignacio Engelmayer (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 Otoola, Lilian Caponi, Gabriela Tabaj, Luciana Molinar, Federico Zenon, Eugenia Perticone, Joaquint Maritano, Marcela Usandivars, Fabian Caro, Matias Castro, Beatriz Gil, Fernando Piumatti, Javier Sebastiani, Diana Lancellotti, Federico Campins, Diego GoiFredo, Antonella Gamarra, Gabriela Manonelles, Jorge Garcia Gonzalez, German Arce, Raul Lisanti, Silvia Del Valle Escotorn, 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 Leung

Malaysian real-world data to describe progressive pulmonary fibrosis (PF) in a clinical setting
Suyatul Syakirin Sirol Allah (Kuala Lumpur, Malaysia), Noraishah Sulaiman, Mohd Syahin Shahira Lilah, Ming Yi Khoo, Woon 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 Białas, Wojciech Jerzy Piotrowski

Late Breaking Abstract - AI-powered decision support helps pulmonologists to diagnose ILD more accurately.
Julie Maes (Leuven, Belgium), Paul Desboerdes, Karolien Van Orshoven, Maarten De Vos, Markus Steinwender, Erich Helfenstein, Corina Marginean, Nicolas Henzi, Peter Cerkl, Patrick Heeb, Stephan Keusch, Gianluca Calderari, Paul Boetticher, Bernhard Baumgartner, Daiana Stolz, Marianna 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 Gundlan, 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
Use of pulmonary vasodilator therapy in anti-synthetase syndrome-associated pulmonary hypertension
Thomas Mason (London, United Kingdom), Chinthaka Samaranayake, Colm Mccabe, Kostas Dimopoulos, Vasilis Kouranos, John Wort, Laura Price

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, Jiming Liu, Ping Yuan

Pulmonary hypertension in patients with Progressive Fibrosing Interstitial Lung disease (PF-ILD) referred for Lung transplantation: Retrospective study from India
Manjunath M N (Hyderabad, India), 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), Reeto 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 Martin Ontiyuelo, Elena Gimenos 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 Águstin Rodríguez Chiaradia (Barcelona, Spain), Lucilla Piccari, Marta Arjona, Virginia Pérez-González, Isabel Blanco, Gregorio Pérez-Peña, Juan Antonio Domingo, Roberto Del Pozo, Ernest Sala, Raquel López, Xavier Pomares, Amaya Martínez, Cristina Sabater, Alberto García, Agueda Arunetxe, Leyre Chasco, Salud Santos, Andrés Tenes, Maria Asunció Nieto, Luis Jara-Palomares, Diego Rodríguez

Pulmonary Hypertension International Survey of Health Impacts (PHISH): a global patient questionnaire
Joseph Newman (Cambridge, United Kingdom), Isla Sanderman, Millicent Stone, Gergely Meszaros, Gerald Fischer, Joanna Pepke-Zaba, Pulmonary Vascular Research Institute: Patient Engagement And Empowerment Working Group

What role does the NLRP3 Inflammasome play in Systemic Sclerosis-Associated Pulmonary Arterial Hypertension (SScPAH)?
Jennifer Rossdale (Bristol, United Kingdom), Sergey Smirnov, Victoria Flower, Raveen Kandan, Kevin Carson, Oliver Watkinson, Daniel Augustine, John Graby, Sarah Skeoch, Gerry Coghlan, Rob Mackenzie Ross, John Pauling, Amanda Mackenzie, Jay Suntharalingam

Correlations between lung injury and peripheral vascular manifestations in patients with systemic sclerosis: a preliminary study
Barbara Ruaro (Trieste, Italy), Paola Confalonieri, Riccardo Pozzan, Stefano Tavano, Chiara Bozzi, Selene Lerda, Marco Confalonieri, Francesco Salton

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

PS-2 in poster area
Session 351 16:00 - 17:30
Poster session: COVID-19, infectious and interstitial pulmonary diseases from a primary care perspective
Disease(s): Interstitial lung diseases Airway diseases Respiratory critical care Pulmonary vascular diseases Thoracic oncology Sleep and breathing disorders
Method(s): Epidemiology General respiratory patient care Imaging Physiology Pulmonary function testing Public health Respiratory intensive care Pulmonary rehabilitation
Tag(s): Clinical
PA3507 RELATIONSHIP BETWEEN MATERNAL AGE OF FIRST BIRTH AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN
Ingrid Guerra Azevedo (São paulo, Brazil), Saionara Maria Aires Aires Da Câmara, Maria Do Socorro Luna Cruz, Mayra Quintana Villarroel, Alvaro Campos Cavalcanti Maciel, Elizabel De S. Ramalho Viana

PA3508 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

PA3509 Prevalence of interstitial lung disease (ILD) in symptomatic individuals with normal spirometry in primary care
Suhani Patel (London, United Kingdom), Anthony Sunjaya, Ethaar El-Emir, Jennifer Harvey, Elizabeth Fleming, Ingram Karen, George Edwards, Timothy Jenkins, Gillian Doe, Samantha Kon, Karl Sylvester, Toby Maher, Philip Molyneaux, William Man

PA3510 Service evaluation of a pilot healthcare scientist led OSA clinic in primary care
Rhodri Curtis (Cardiff, United Kingdom), Joleta Hooper-Lee, Alex Perkins

PA3511 Novel screening protocol for early detection of lung involvement in sero- and ACPA-positive rheumatoid arthritis
Frank Reichenberger (Munich, Germany), Martin Welecker, Martin Hoffmann, Werner Von Wulffen, Florian Popp

PA3512 BETA-LACTAMASE ACTIVITY IS A BIOMARKER FOR THE PREDICTION OF THE EFFICACY OF ANTIMICROBIAL THERAPY.
Farkhod Mukhsinov (Tashkent, Uzbekistan), Irina Liverko

PA3513 Pulmonary embolism during tuberculosis: clinical features and outcomes
Tarak Cherif (Ariana, Tunisia), Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Soumaya Ben Saad, Fatma Tritar

PA3514 COVID-19 pandemic: challenges, facts and risks of antibiotic resistance
Irina Liverko (Tashkent, Uzbekistan), Feruza Niyazova

PA3515 Post-COVID consultation at Winterthur Cantonal Hospital - follow-up over six months
Markus Hofer (Zürich, Switzerland), Swantje Beyer, Sarah Egli, Anne-Kathrin Rauh, Juergen Hetzel, Irina Nast, Markus Wirz

PA3516 Impact of post-covid-19 condition on health and activities of daily living: a population-based cohort study

PA3517 Prediction of the development of traction bronchiectasis and parenchymal bands in patients discharged after treatment for COVID-19
Rebecca Saray Marchesini Stival (Rio Grande (RS), Brazil), Ariele Haagsma, Rafaella Bernardelli, Bruno Pedrazzani, Karin Storrer, Nayanme Oliveira, Luisa Abbott, Maria Leticia Tebet, Maria Fernanda Vieira, Cristina Baena

PA3518 Long Covid (LC) is still unrecognized in Greece. A barrier to adequate treatment.
Paraskevi Katsaounou (Athens, Greece), Martha-Spyridoula Katsarou, Archontoula Antonoglou, Antonis Kontaxakis, Ioanna Kotsamidi, Vassiliki Yakoutsi, Maria Saroglou, Helen Iasonidou

PA3519 Patient care in the last days of life – Prescription patterns in a Pneumology Ward
Pedro Viegas (Vila Nova de Gaia, Portugal), Leonor Roseta, Eloisa Silva, Ana Cristina Ferreira, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

PA3520 Symptom management in the last days of life in a Respiratory Ward
Pedro Viegas (Vila Nova de Gaia, Portugal), Leonor Roseta, Eloisa Silva, Ana Cristina Ferreira, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

PA3521 Possible changes in diagnoses before and during Covid-19 with focus on the respiratory tract
Pia Lindberg (Tyresö, Sweden), Seita Lee, Gunnar Ljunggren, Asa Wheelock, Axel Carlsson

PA3522 Development of patient resources for chronic breathlessness: Needs analysis
Anthony Paulo Sunjaya (Sydney, Australia), Allisson Martin, Clare Arnott, Guy Marks, Christine Jenkins

PA3523 Predictors of successful separation from high flow nasal cannula oxygen therapy in severe COVID-19 patients admitted in a tertiary hospital in Bacolod City, Philippines
Rencel Beljera (Bacolod City, Philippines), Rock Jr. Camañña, Paolo Hilado

PA3524 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, Jennylyn Go
**Poster session: Imaging studies in COVID pneumonia and other lung diseases**

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

**Method(s):** Imaging, Physiology, Pulmonary function testing, Respiratory intensive care, Endoscopy and interventional pulmonology, Epidemiology, Public health, Surgery

**Tag(s):** Clinical

**Chairs:** Ádám Domonkos Tárnoki (Budapest, Hungary), Chair to be confirmed

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**PA3525**

**Comparison of Conventional Clinical and Laboratory Findings with 18F-FDG PET/CT and 68Ga Citrate PET/CT in terms of Diagnostic Utility and Disease Activity Among Sarcoidosis Patients**

Bahar Kubat (İSTANBUL, Turkey), Mehmet Cüneyt Tetikkurt, Haluk Burçak Sayman

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**PA3526**

**CT imaging differences between different Covid-19 strains**

Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

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**PA3527**

**CT findings as prediction of long covid**

Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

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**PA3528**

**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 Cicci, Angela Brancaforte, Marcello Intotero, Paolo ScarpaZZa

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**PA3529**

**Persisting radiological abnormalities following covid-19 are common and correlate with impaired Quality of Life**

Hannah Bayes (Glasgow, United Kingdom), Robert Sykes, Andrew J Morrow, Kenneth Mangion, Alex Mcconnachie, Alasdair McIntosh, Giles Roditi, Claire Rooney, Katherine Scott, David Stobo, Colin Berry, Colin Church

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**PA3530**

**Differences in CT presentation of covid 19 between vaccinated and unvaccinated patients**

Aleksandar Ivkovic (Niš, Republic of Serbia), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

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**PA3531**

**Computed tomography (CT) characteristics of vanishing lung syndrome in patients after severe COVID-19 pneumonia**

Svitlana Opimakh (Kyiv, Ukraine), Yuriy Feshchenko, Viktoria Ignatievea, Mykola Lynnyk, Galyna Gummeniuk, Mykola Gummeniuk, Maryna Polianska, Nataliia Musienko

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**PA3532**

**Multislice CT in the visualisation of thromboembolism of small branches of pulmonary arteries in COVID-19**

Elmira Chuvakova (Astana, Kazakhstan), Tamara Milosavljevic, Ivana Svilarov, Stevan Ivkovic, Dusan Ivkovic

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**PA3533**

**Incidentaloma in covid 19**

Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković

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**PA3534**

**Medical management strategies in epidemic**

Dušan Ivković (Niš, Republic of Serbia), Stevan Ivković, Aleksandar Ivković

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**PA3535**

**CT findings in asymptomatic patients with covid 19**

Stevan Ivković (Niš, Republic of Serbia), Dušan Ivković, Aleksandar Ivković

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**PA3536**

**Post COVID-19 HRCT Thorax sequelae, a one year follow up study**

Rajesh Agrawal ( Bareilly, India), Rajat Agarwal, Javed Ahmad Malik

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**PA3537**

**Thromboembolic complications during SARS-CoV-2 infection in the elderly**

Hamida Kwais (Gades, Tunisia), Sabrine Majdoub Fehri

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**PA3538**

**Pneumonectomy in the surgery of pulmonary Hydatid cysts: A therapeutic option that is sometimes unavoidable**

wifek SAIDANI (Ariana, Tunisia), Kaouther Ben Amara, Imen Bouassida, Hazem Zribi, Mehdi Abdennadher, Sarra Zairi, Imen Saïnoun, Adel Marghli

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**PA3539**

**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

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**PA3540**

**Changes in lung volumes during bronchoalveolar lavage according to bedside position. Case Series**

Ignacio Fernández Celbarros (Buenos Aires, Argentina), Julieta Gonzalez Anaya, Juan Martin Nuñez Silveira, Emilio Steinberg, Leiniker Navarro Rey, Gabriel Elias Vega, Ivan Hueses, Indalecio Carboni Bisso, Marcos Las Heras, Rodrigo Cornejo

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**PA3541**

**Severity and radiological score in nasal polyposis associated with asthma : comparison between asthmatic and non-asthmatic patients**

Rim Hammami (Sfax, Tunisia), Souha Kallel, Mohamed Amin Chaabouni, Omar Walha, Najla Bahloul, Sirine Ayedi, Sami Kammoun, Ilhem Charfeddine
PA3542  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

PA3543  Late Breaking Abstract - CT-based diaphragm analysis to evaluate the diaphragm configuration with increasing COPD severity  Jens Thomas Bakker (GRONINGEN, Netherlands), Jorine E. Hartman, Karin Klooster, David A. Lynch, Marieke C. Van Der Molen, Jean-Paul Charbonnier, Michail Tsiaousis, Rozemarijn Vliegenthart, Dirk-Jan Slebos

PA3544  Late Breaking Abstract - Deep learning-based outcome prediction in pulmonary fibrosos using synthetic HRCT  Simon Walsh (London, United Kingdom), Xiaodan Xing, John Mackintosh, Lucio Calandriello, Yingying Fang, Shiyi Wang, Sheng Zhang, Yang Nan, Mario Silva, Athol Wells, Guang Yang, Tamera Corte

PS-3 in poster area  Session 353  16:00 - 17:30
Poster session: Respiratory mechanics, structure-function, and modelling studies

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

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

Tag(s):  Translational

Chairs:  Raffaele Dellaca (Milano (MI), Italy), Katarzyna Górska (Warszawa, Poland)

PA3545  Improved gas exchange during high-frequency percussive ventilation: comparison of intratracheal and extrathoracic oscillations  Ferenc Peták (Szeged, Hungary), Walid Habre, John Diaper, Roberta Südy, Davide Bizzotto, Raffaele Dellacà, Álmos Schranc

PA3546  Effects of positive and negative end-expiratory pressures on gas exchange and haemodynamics during flow-controlled ventilation: an experimental study  Álmos Schranc (Geneva, Switzerland), John Diaper, Roberta Südy, Walid Habre, Gergely Albu, Philippe Bijlenga, Hervé Quintard

PA3547  Ventilation-perfusion matching assessed by volumetric capnography: differences between positive- and negative-pressure mechanical ventilation in rats  Bence Ballók (Szeged, Hungary), Gergely H. Fodor, Fruzsina Kun-Szabó, Ibolya Tóth, Petra Somogyi, József Tolnai, Barna Babik, Ferenc Peták

PA3548  Viscoelastic behavior of sheep respiratory system during mechanical ventilation  Camilla Zilianti (Milano (Mi), Italy), Fabio Acocella, Giuliano Ravasio, Roberto Galli, Anna Kyriakoudi, Matteo Pecchiari

PA3549  Establishing reference values for the end-expiratory lung volume (EELV) in a common model of respiratory research  Gergely H. Fodor (Szeged, Hungary), Ferenc Rárosi, Bence Ballók, Fruzsina Kun-Szabó, Ibolya Tóth, Petra Somogyi, Ferenc Peták

PA3551  Evaluation of the spatial spirometry indicators using electrical impedance tomography  Wang Chun Kwok (Hong Kong, Hong Kong), Fedi Zouari, Pak To Cheung, Adrien Touboul, Venice Sin, Eddie C. Wong, Iris Y. Zhou, Terence Chi Chun Tam, Russell W. Chan

PA3552  Distribution of regional lung ventilation in upright healthy subjects determined by electrical impedance tomography  Inez Frerichs (Kiel, Germany), Barbara Vogt, Kathinka Deuss, Victoria Hennig, Claas Strothoff

PA3553  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

PA3554  Computational fluid dynamic analysis of the effect of airflow vibration in nasal cavity  MASATO MIWA (TOKYO, Japan), Soichiro Fujimura, Nagisa Yanagi, Masahiro Nakamura, Fumihiko Matsumoto, Makoto Yamamoto

PA3555  Effects of breathing frequency on the capnogram shape factors in healthy subjects  József Tolnai (Szeged, Hungary), Gergely Fodor H., Ibolya Tóth, Petra Somogyi, Bence Ballók, Barna Babik, Ferenc Peták

PA3556  Understanding the determinants of CO gas-transfer test through a computational lung model  Christos Nikolou (London, United Kingdom), Wenjia Bai, Brody H Foy, Salman Siddiqui

PA3557  Examining the relationship between pulmonary vascular structure and function in chronic obstructive pulmonary disease: a cross-sectional analysis  Sophie Collins (EDMONTON, Canada), Miranda Kirby, Joshua Perka, Andrew Weinkauf, Gaurav Veer Singh, Stephanie Thompson, Benjamin M. Smith, Sean Van Diepen, Michael Stickland
Association of Forced Oscillation Technique measurements with respiratory system compliance and resistance in a 2-compartment physical model of the respiratory system
Laurent Plantier (Tours Cedex 9, France), Valentin Cerfeuillet, Laurine Allimonnier, Sandrine Le Guellec

Use of oscillometry in clinical practice
Elisabeth Edvardsen (Oslo, Norway), Ingvild Bjellmo Johnsen

The Utility of Forced Oscillation Technique in the Assessment of Obstructive Lung Disease among Adult Patients
Nikko John Dalisay (Angeles City, Philippines), Bernice Ong-Dela Cruz, Ma. Encarnita Limpin

Airspace diameter map - a quantitative measurement of all pulmonary airspace to characterize structural lung diseases
Sanja Blaskovic (Bern, Switzerland), Pinelopi Anagnostopoulou, Elena Borisova, Dominik Schitth, Yves Donati, David Haberthür, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampapani, Constance Barazzone, Johannes C. Schitth

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

Poster session: Intensive care unit settings and acute respiratory failure

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.
Yu-Cheng Wu (Taichung City, Taiwan), Pin-Kuei Fu

Decrease tissue oxygen saturation influenced acute skeletal muscle weakness in patients with critically ill patients
Ryujl Sugiya (Osakasayama, Japan), Shinichl Arizono, Yuta Kimoto, Masashi Shiraishi, Kazuyuki Tabra, Yuichi Tawara, Tamotsu Kimura, Yuji Higashimoto, Hironori Shigeoka

Risk factors associated with Hantavirus Cardiopulmonary Syndrome in Chile.
Ricardo Fritz (Santiago, Chile), Francisco Arancibia, Ruivtay 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
Nikita Simms-Williams (Birmingham, United Kingdom), Prasad Nagakumar, Rasithaytakaran, Nicola Adderley, Krishnarajah Niranrarah, Adel Mansur, Shamul Haroon

Development and validation of deep-learning-based sepsis and septic shock early prediction system in real-world ICU data
woo hyun cho (Yangentan, Republic of Korea), Taehwa Kim, Hye Ju Yeo, Kunwon Tae, Kyungjae Cho, Dongjoon Yoo, Yehe Lee

Expansion of anaerobic bacteria in the lung microbiome of critically ill patients is associated with altered immune landscape and worsened outcomes.
Jared Schlechte, Amanda Zucoloto, Ian-Ling Yu, Christopher Doig, Mary Dunbar, Christina Thornton, Braedon Mcdonald

Outcomes of lung cancer patients admitted to a medical intensive care unit (ICU)
Glenn Yong (Singapore, Singapore), John Abisheganaden, Sennen Lew
PA3573  A prospective study of circulating omentin-1 in critically ill patients with sepsis
Irene Karampela (Athens, Greece), Natalia Vallianou, Gerasimos-Socrates Christodoulatos, Dimitrios Tsilingiris, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga

PA3574  Thirty-one-month outcomes of utilizing business intelligence tool for data-driven decision support to enhance compliance with lung protective strategy
Yu-Chu Kuo (Taiwan), How-Yang Tseng, Chieh-Lung Chen, Wei-Cheng Chen

PA3575  Modeling using risk factors for delirium in elderly patients admitted to an intensive care unit.
SUNG WON CHANG (Seoul, Republic of Korea), Kyung Soo Chung, Chi Rayng Chung, Jong Min Lee, Je Hyeong Kim, Jae Jeong Shim, Young Seok Lee

PA3576  Impact of socioeconomic factors on pneumological emergency response
Klaas F. Franzen (Luebeck, Germany), Holger Maurer, Charlotte Söling, Daniel Drömann

PA3577  Prognostic value of serum omentin-1 in critically ill patients with sepsis
Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Natalia Vallianou, Dimitrios Tsilingiris, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga

PA3578  Association of breathing reserve with post-operative pulmonary complications in an elective surgical cohort
Matthew Knight (manchester, United Kingdom), Inbar Aberman, Manisha Shah, Rahulde Sarkar

PA3579  Association between early blood urea nitrogen-to-albumin ratio and one-year post-hospital mortality in critically ill surgical patients: a propensity score-matched study
Pei-Ya Liao (Taichung, Taiwan), Chao Wen-Cheng

PA3580  Prediction of healthcare-associated infection using Quantiferon monitoring in pneumonia patients
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Taehwa Kim

PA3581  Risk factors for long-term invasive mechanical ventilation: a retrospective longitudinal study using German health claims data
Franziska Trudzinski (Heiderberg, Germany), Julia D Michels, Benjamin Neetz, Jan Meis, Michael Müller, Axel Kempa, Claus Neurohr, Armin Schneider, Felix Herth, Joachim Szecsenyi, Elena Biehler, Thomas Fleischhauer, Michael Wensing, Simone Britsch, Janina Schubert-Haack, Thomas Grobe, Timm Frerk

PA3582  COPD Care Bundle in Emergency Department Observation Unit Reduces Emergency Department Revisits
Pierpaolo Maietta (mercogliano (AV), Italy)

PA3583  ICU experience of the Respiratory Syncytial Virus Season after 2 years into the COVID-19 pandemic in a single institution
Lurisha Coopoosamy (Pretoria, South Africa), Ameena Goga, Alicia Lazarus

PS-5 in poster area  Session 355  16:00 - 17:30
Poster session: From basic to translational sleep breathing disorders

Disease(s) : Sleep and breathing disorders, Airway diseases
Method(s) : General respiratory patient care, Imaging, Public health, Cell and molecular biology, Physiology, Epidemiology, Pulmonary function testing
Tag(s) : Translational
Chairs : Chair to be confirmed

PA3584  Intermittent hypoxia mediates cancer development and progression through HIF-1 and miRNA regulation
GIORGIA MORIONDO (Barletta, Italy), Piera Soccio, Mélanie Minoves, Giulia Scioscia, Maria Pia Foschino Barbaro, Jean-Louis Pépin, Anne Briancón-Marjollet, Donato Lacedonia

PA3585  Sleep apnoea indices associated with markers of inflammation and cardiovascular disease -A proteomic study in the MUSTACHE-cohort
Mirjam Elisa Ljunggren (Uppsala, Sweden), Xingwu Zhou, Jenny Theorell-Haglöw, Christer Jansson, Karl Franklin, Össur Emilsson, Eva Lindberg

PA3586  Association of obstructive sleep apnea hypopnea syndrome with brain iron deposition
Sotiriis Zariogiannis (Larisa, Greece), Dimitrios Raptis, Ioannis Lampropoulos, Olga Sinani, Dimitra Siachpázidou, Lamprini Pouliliou, Georgia Rapti, Chrysoula Marogianni, Eftychia Kapsalaki, Chaido Pastaka, Foteini Malli, Konstantinosourgoulianis, Georgia Xiromerisiou

PA3587  Intermittent hypoxia can induce apoptosis of macrophage
Yina Wang (Changsha (Hunan), China), Xiao Xiao, Silei Deng, Jingjie Kuang, Yuanguo Chen, Yayong Li
**PA3588**
Intermittent hypoxia up regulates mTOR expression in hepatic macrophages through CX3CL1/CX3CR1  
Yina Wang (Changsha (Hunan), China), Silei Deng, Xiao Xiao, Yuanguo Chen, Yayong Li

**PA3589**
Tracking of respiratory effort during hypopneas in sleep apnea patients by analysis of energy ratio of breathing sounds using PneaVoX sensor  
Martin Glos (Berlin, Germany), Songül Karaca, Jade Vanbuis, Margaux Blanchard, Paria Pouriahia, Meghna Jha, Ingo Fietze, Thomas Penzel

**PA3590**
Experience with the mandibular advancement device (MAD) in the sleep-disordered breathing clinic.  
Pablo Giménez Ruiz (Valencia, Spain), Alberto Martínez Aracil, Amparo Lluch Bispal, Judith Murillo Cortés, Rafael Navarro Iváñez, Estrella Fernández Fabrellas

**PA3591**
Two birds, one stone: a RCT investigating the efficacy of dexamfetamine for treating obesity and obstructive sleep apnoea  
Natalie Gauci (Kingswood, Australia), Hazer Khalifa, Donald Lee, David Coulshed, Emily Hibbert, Kaye Foster-Powell, Alison Poulton

**PA3592**
The effect of low dose CO2 on sleep quality in healthy subjects  
Shanfeng Liang (Guangzhou, China), Dongxiao Lu, Qishan Wei, Baiting He, Luguang Wu, Yingxin Wu, Joerg Steier, Andrew Wellman, Yuanming Luo

**PA3593**
Gender transition from female to male as a risk factor for sleep-disordered breathing  
Samuel Genzor (Olomouc, Czech Republic), Jan Mizera, Jakub Vanek, Jan Prasko, Petr Jakubec, Monika Zurkova, Jiri Kufa

**PA3594**
Obesity and self-reported symptoms as determinants of responses to atomoxetine and aroxybutynin for sleep apnea  
Ludovico Messineo (Boston, United States), Scott Sands, Andrew Wellman, Ali Azarbarzin

**PA3595**
TRANSCUTANEOUS NOCTURNAL CAPNOGRAPHY - AN UNDERUSED TOOL?  
Laura Abad Chamorro (Oviedo, Spain), Gemma Rubinos Cuadrado, Maria José Vázquez López, Irene Fernández Suárez, Patricia Rodríguez Menédez, Ina Iordanova Guerassimova, Pablo Lozano Cuesta, Ines Ruiz Álvarez, Juan Francisco Nieves Salceda, Laura Martínez Vega, Maria Rodil Riera, Eduardo Sánchez Vázquez, Isabel Martínez Gozález-Posada, Patricia Álvarez Álvarez, Angela Lanza Martínez, Ramon Fernández Álvarez

**PA3596**
Neck structures, risk factor for obstructive sleep apnea  
Norbert Wellmann (TIMISOARA, Romania), Alexandru Cătălin Motofelea, Monica Steluţa Marc

**PA3597**
Estimating obstructive sleep apnea endotypes from the oxyhemoglobin saturation signal  
Ludovico Messineo (Boston, United States), Ali Azarbarzin, Neda Esmaeeli, Atqiya Aishah, Daniel Vena, Gonzalo Labarca, Laura Gell, Hu Wen-Sin, Hyung-Chae Yang, Scott Sands, Andrew Wellman

**PA3598**
Gender difference in residual sleepiness at 1-year of CPAP treatment  
Pasquale Tondo (Foggia, Italy), Simone Sorangelo, Anela Hoxhallari, Giulia Scioscia, Matteo Siciliano, Rosa Lossetti, Matteo Bradicich, Giorgia Moriondo, Piera Soccio, Giuseppe Mansueto, Roberto Sabato, Maria Pia Foschino Barbaro, Donato Lacedonia

**PA3599**
Systematic Review and Pathway Analysis of differentially expressed microRNAs in Obstructive Sleep Apnea  
Barbara Santos (Coimbra, Portugal), Laetitia Gaspar, Ana Capitão, Alexandrina Ferreira Mendes, Claudia Cavadas, Irina S. Moreira, Ana Rita Álvare

**PA3600**
Late Breaking Abstract - Dysanapsis in adult obstructive sleep apnoea patients and its association with asthma.  
Masood Ur Rasool (HUNTINGDON, United Kingdom), Hina Qaim, Sadiyah Hand, Parsanna Sankaran

**PA3601**
Late Breaking Abstract - Association between obstructive sleep apnea syndrome (OSAS) and QRS duration in women  
Derlen Ozgec (Nicosia, Cyprus), Cenk Conkbayır, Mustafa Akansoy

**PS-6 in poster area**
**Session 356**  
16:00 - 17:30

**Poster session: Precision medicine considerations and inhalation efficacy in airway diseases**

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

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

**Tag(s):** Clinical

**Chairs:** Ellen Tufvesson (Lund, Sweden), Morten Hvidtfeldt (Lejre, Denmark)
PA3602 Absolute blood eosinophil counts among 3,763 healthy, asthmatic, and COPD subjects across India.

PA3604 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

PA3605 The impact of smoking history on baseline characteristic in patients with severe asthma in the German Asthma Net (GAN)
Leonie Biener (Bonn, Germany), Slagjana Stoshikj, Jonas Brugger, Roland Buhl, Eckard Hamelmann, Stephanie Korn, Christian Taube, Katrin Milger-Kneidinger, Christian Schulz, Hendrik Suhling, Margret Jandl, Rainer Ehmann, Olaf Schmidt, Marco Idzko, Dirk Skowasch

PA3606 The impact of pretreatment blood eosinophils count (BEC) in the efficacy of Allergen Immunotherapy (AIT)
Antonios Christopoulos (Patras, Greece), Maria-Elpida Christopoulou, Ioannis Christopoulos, Georgios Tsigriks, Panagiota Tsiri, Eva Theohari, Electra Koulousousa, Vasiliki Sotropoulos, Demetris Komninos, Argyrios Tzouvelekis

PA3607 Fractional exhaled nitric oxide as a biomarker in patients with uncontrolled asthma
William Busse (Madison, United States), Ian D. Pavord, Michael E. Wechsler, Ignacio J. Davila, Arman Altincatal, Megan Hardin, Xavier Soler, Harry Sacks, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe

PA3608 The effect of lung emptying on the airway deposition of aerosol drugs
Janos Tamas Varga (Budapeth, Hungary), Árpad Farkas, Gábor Tomisa, Georgina Szénási, Péter Czaun, Alpár Horváth

PA3609 Aerosol delivery during high flow nasal oxygenation: breath enhanced nebulization.
Gerald Smaldone (Stony Brook, United States)

PA3610 BDP/FF FDC protects against bronchospasm induced by PEG, a BNT162b2 COVID-19 vaccine excipient
Luigino Calzetta (Roma (RM), Italy), Alfredo Chetta, Marina Ariello, Annalisa Frizzelli, Josuel Ora, Enrico Melis, Francesco Fasciolo, Lorenzo Ippoliti, Andrea Margrini, Paola Rogliani

PA3611 The effect of lung emptying on the breathing parameters characterizing the inhalation of aerosol drugs
Botond Havadothi (Budapeth, Hungary), Izhida Réti, Norbert Ilyés, Arpad Farkas, Alpár Horváth, Balázs Sánta, Tamás Kovács, Péter Czaun, Gabriella Gálffy

PA3612 Anti-IL-5/5Ra biologics improve work productivity and activity in severe asthma.
Heppen (Rotterdam, Netherlands), Hanna Kuiper - Van Der Valk

PA3613 Improving access to biologic treatments for patients with severe asthma
Angela Cooper (Stoke on Trent, United Kingdom), Holly Minshall, Elfatih Idris

PA3614 Consistency of Medication Delivery with Breath Actuated Technology when Simulated with Differing Inhalation/Exhalation Ratios
Mark Nagel (London (ON), Canada), Rubina Ali, Cathy Doyle, Jason Suggett

PA3615 ORBE II study: clinical characteristics and outcomes after treatment with benralizumab according to baseline blood eosinophil count
Alvaro Martinez Mesa (Malaga, Spain), Jose Luis Velasco Garrido, Ismael Garcia Moguel, Carlos Martinez, Ruben Andujar, Carmen Cañete, Roceo Diaz Campos, Loles Arnau, Gabriel Niza, Javier Nuevo, Elisa Luzón Alonso, Alicia Padilla

PA3616 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 Sella, Maria Jose Escarpenter, Javier Nuevo, Elisa Luzón Alonso, Alicia Padilla Galo

PA3617 Can patients with FEV1 ≥80% achieve improvements with benralizumab treatment? An ORBE II study subanalysis according to lung function
Marina Blanco Aparicio (A Coruña, Spain), Eva Martinez Moragón, Andrea Trisán Alonso, Borja Valencia Azcona, PilarAusín Herrero, Eugenia Navarrete Rouco, Marta González Sierra, Javier Rivero, Elisa Luzón Alonso, Alberto Levy Naón

PA3618 Long-term efficacy and tolerability of dupilumab in patients with moderate-to-severe type 2 asthma stratified by baseline characteristics
Michael E. Wechsler (Denver, United States), Linda Rogers, Giorgio Walter Canonica, Arman Altincatal, Megan Hardin, Xavier Soler, Paul J. Rowe, Yamo Deniz, Harry Sacks, Juby A. Jacob-Nara
UNPRIMED ELECTROSTATIC PLASTIC BOTTLE SPACER DELIVERED MORE SALBUTAMOL AEROSOL TO AIRWAYS THAN ANTISTATIC VALVED HOLDING CHAMBERS

Hyok-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 TRIAL DATA ANALYSIS

Pierluigi L. Paggiaro (Pisa (PI), Italy), David Price, Nicolas Roche, Sebastian Moreira, Manish Verma, Shalini Girotra, Maximilian Plank, Sean Oosterholt, Oscar Della Pasqua

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

Balazs Antus (Budapest, Hungary), Csilla Paska, Imre Barta

Association between changes in thoracic muscle mass assessed by high resolution computed tomography and exacerbations in patients with COPD- 1-year follow-up

Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyman Alsted, Esben Bolvig Mark, Pernille Veiss-Pedersen, Rasmus Brath Christensen, Henrik Hojgaard Rasmussen, Jens Brøndum Frokjer, Lasse Rii Östergaard, 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, Rod Hughes, Pierre-Régis Burgel, 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

Martin MacDonald (Ferny Creek, Australia), Louis Chior, Stefan Saggese, Garun Hamilton

Association between weather and emergency department visits for acute exacerbation of chronic obstructive pulmonary disease patients with acute respiratory failure

Man-Ju Ting (New Taipei City, Taiwan), Yating Chen, Yeong-Long Hsu, Shih-Lung Cheng
PA3633  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

PA3634  Platelet count and platelet-to-lymphocyte ratio as biomarkers on the onset of a severe COPD exacerbation
Andreas Schönberg-Moe (EIKSMARKA, Norway), Balázs Csoma, András Bikov, Veronika Müller, Zsófia Lázár

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 Catanazzari, Clare Ghislà, Thao Le, Chantal Le Lievre, Ruth Murray, Kanchanamala Ranasinghe, Deb Stewart, Marie Van Melle, Rebecca Vella, Russell Wiseman, David Price

PA3636  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 Mehnoood, Kumar Utsav Samaria, Surya Kant, Nishtha Singh, Tejrjaj Singh, Aradhana Singh, Rajeev Gupta, Parvaiz Koul, Sundeep Salvi, Virendra Singh

PA3638  Biochemical markers as predictors of outcomes in COPD exacerbations
Ana Sofia Maciel Campos Da Silva (Sesimbra, Portugal), Rita Enriquez, Joana Duarte, Andreia Daniel, Inês Claro, Margarida Barata, Maria Alvarenga Santos, Teresa Martin, Nidia Caires, Filipa Todo Bom

PA3639  Pulmonary exacerbations in alpha-1 antitrypsin deficiency and usual COPD
Paul Ellis (Solihull, United Kingdom), Joshua De Soyza, Ketan Patel, John Ripollone, Alice Turner, Michael Newnham

PA3640  Predictive factors of intensive care unit admission in COPD exacerbations
Asma Knaz (Sousse, Tunisia), Aissia Sana, Benzarti Wafa, Benbdira Baraa, Inen Gargouri, Ahmed Abdelghani

Predictors of acute exacerbations in COPD: a systematic review
Marjolein Brusse-Keizer (Enschede, Netherlands), Charlotte Cecile Bucsán, Anke Lenferink, S H B Van Dijk, W J C Van Beurden, P D L P M Van Der Valk, C J M Doggen, J V Der Palen

PS-8 in poster area  Session 358  16:00 - 17:30
Poster session: Clinical aspects in asthma

Disease(s) : Airway diseases
Method(s) : Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology Pulmonary rehabilitation
Tag(s) : Clinical
Chairs : Pavol Pobeha (Košice, Slovakia), Antonio Spanevello (Milano, Italy)

PA3642  Sensitivity and Specificity of the 2022 European Respiratory Society (ERS) Guidelines for the Diagnosis of Asthma in Adults
Andrew Simpson (Hull, United Kingdom), Sarah Drake, Ran Wang, Laura Healy, Hannah Wardman, Miriam Bennett, Clare S Murray, Stephen J Fowler, Angela Simpson

PA3643  Medical care access and asthma-related hospitalization
Yossr Aloulou (Manouba, Tunisia), Hana Bibeche, Houde Snene, Marwa Bougacha, Rym Cheour, Amal Zemzemi, Nadia Mehiri, Sameh Belhadj, Nozha Ben Salah, Bechir Louzir

PA3644  Impact of protocolised care on difficult-to-treat asthma outcomes
Nicole Yu-Fang Sieow (Singapore, Singapore), Kundan Saripalli, Yong Huak Chan, Wilson Chan, Anthony Yii, Xue Ning Choo, Tunn Ren Tay

PA3645  Asthma frequent fliers: phenotypes, endotypes and current hospital healthcare utilisation – can we do better?
Charlotte Buchalter (Hertfordshire, United Kingdom), Rama Vancheeswaran

PA3646  Longitudinal lung function trajectories in adults with severe asthma.
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Julie Marsh, Brendan Cooper, Ali Bahrôn, Adel Mansur

PA3647  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 Opimakh (Kyiv, Ukraine), Yurii Feshchenko, Galyna Gumeniuk, Mykola Gumeniuk, Maryna Polianska, Viktoria Ignatieva, Inna Zvol, Svitlana Moskalenko, Nataliia Vlasova, Iryna Chumak, Liudmyla Halai

Identifying undiagnosed asthma in symptomatic adults with normal pre- and post-bronchodilator spirometry
Sheojung Shin (Ottawa, Canada), George Whitmore, Louis-Philippe Boulet, Marie-Eve Boulay, Andréanne Côté, Céline Bergeron, Catherine Lemière, M. Diane Lougheed, Katherine L. Vandemheen, Gonzalo 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 Cuypers, 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, María 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 Dhifallah (Ariana, Tunisia), Houda Rouis, Chirine Moussa, Donia Jridi, Chaima Turki, Oumayma Aggouni, Ibthiel 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

CONNECT3: design and rationale for a study of the BF Digihaler System in adult patients with asthma
Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Richard Costello, Job F.M. Van Boven, Jennifer K. Quint, Janwillem Kocks, Randall Brown, Guilherme Safioti

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, Choong-Sik Park, Joo-Hee Kim

Preserved ratio impaired spirometry: fewer small airway dysfunction than COPD
Yumi Fujita (Shizuoka, Japan), Toshio 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 airway responsiveness in patients with asthma
Nina Trepić (Novi Sad, Republic of Serbia), Marko Nemet, Ivan Kopitović, Marija Vukoja

Bayesian modelling of combined FEV1 and FVC vital lung function trajectories: relationship with airflow obstruction and PRISm
Núria Olvera Ocaña (Barcelona, Spain), Àlvar Agustí, James Ross, Rosa Faner

Detection of Small Airway Disease with Oscillometry in Asthmatics
Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Pasquale Pio Pompilio, Alessandro Gobbi, Raffaele Dellaca, Oway Sununata, 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 Antalffy

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 Garcia Esteban, Xunxiao Lin, Lucia Elsoua Prats, Patricia Ibiguez De Heredia Monforte, Jorge Luis Hurtado Ortega, Elena Borobia Irache, Ana Cristina Aguelo Velilla

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 oscillometry 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

17:30-19:00
INDUSTRY EVENING SYMPOSIUM

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
**No Room**  
Session 369  
07:00 - 08:00

Public: Take the Active Option @ Congress

**Aims:** Build awareness of the Healthy Lungs for Life campaign and help people to get active at congress

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**Amber 1+2**  
Session 374  
08:00 - 10:20

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 interpreting 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>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 Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>08:00</td>
<td>Clinical assessment of pulmonary hypertension</td>
<td>Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)</td>
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**Amber 3+4**  
Session 375  
08:00 - 10:40

Skills workshop: SW13 Thoracic ultrasound basic principles

**Aims:** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

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

**Tag(s):** Clinical

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

**Chairs:** Christian B. Laursen (Odense, Denmark)

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<td>08:20</td>
<td>Normal Thoracic Cavity</td>
<td>Helen Medill (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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Case studies
Najib M. Rahman (ABINGDON, United Kingdom)

Guided interventions
Søren Helbo Skaarup (Aarhus C, Denmark), Rahul Bhatnagar (Bristol, United Kingdom)

PS-1 in poster area
Session 376
08:00 - 09:30

Poster session: Critical care and management of chronic respiratory failure

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

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

Tag(s) : Clinical

Chairs : Natasha Smallwood (Melbourne (VIC), Australia), Chair to be confirmed

PA3755
The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure
Fangbo Zhao (Changchun (Jilin), China), Hongjing Lin

PA3756
A contemporaneous comparison of functional recovery in ECMO and non-ECMO survivors of acute respiratory failure
Andrea Levine (Baltimore, United States), Noel Britton, Mackenzie Snyder, Binta Njie, Sara Viola, Hatono Abbas, Waqas Bhatti, Ryan Lee, Siu Yan Yeung

PA3757
Delivering home mechanical ventilation: Evaluating a regional outreach service.
Laura Tregidgo (London, United Kingdom), Christopher Steward, Roy Enriquez, Nicholas Skipper, Sasha Fudio, Nicholas Hart, Georgios Kaltsakas, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eir-Sik Suh, Patrick B Murphy, Rebecca F D’Cruz

PA3758
Ventilatory support and telemonitoring in patients with neuromuscular disease: a prospective study.
Claudia Simeire Albertini (São Paulo (SP), Brazil), Diogo Fernandes Dos Santos, Ana Elizabith Cuinha Guimarães De Almeida, Laerte Honorato Borges Junior, Vinicius Oliveira, Maria Fernanda Prado Rosa, William Nicoleti Turazza Da Silva, Daniela Name Chaul Vidigal, Isabella Cristina Guimarães De Almeida

PA3759
Long term outcome of patients treated with home NIV according to pulmonary rehabilitation (PR) attendance
Lêa Razakamanantsoa (Paris, France), Typhaine Huchard, Jean-François Muir, Antoine Cuvelier, Tristan Bonnevie, Maxime Patout

PA3760
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 Luisa De Candia, Simone Rizzelli, Pierluigi Intigilletta, Alessandro Palumbo, Luciana Labate, Nicola Valerio, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Carpanzano

PA3761
Pilot clinical study on the safety, tolerance and comfort of thoracic vibratory therapy by electrostimulation. Phase 1. The ELECTROVEST study.
Maria Del Pilar Cejudo Ramos (Sevilla, Spain), Antonio Y. Méndez Alonso, Inmaculada Ortiz Molina, Rosa Vazquez Sanchez, Lola Nuñez Ollero, Fernando Diaz Guererro, Mar Elena, Sergio Tejero Garcia, Miguel Angel Giráldez Sánchez, Esther Quintana Gallego

PA3762
Breathlessness and exercise performance to predict mortality in long-term oxygen therapy
Filip Björklund (Karlskrona, Sweden), Andreas Palm, Iwan Abdulrazak Gorani, Zainab Ahmadi, Josefin Sundh, Jenny Theorell Haglöw, Mirjam Ljunggren, Ludger Groth, Karin Wadell, Magnus Ekström

PA3763
Evaluation of a novel domiciliary long term oxygen therapy assessment service
Kathleen McGee (Glasgow, United Kingdom), Michael McGettrick, Katherine Rooney, Christopher Wills, Hannah Bayes

PA3764
Enhancing advance care planning and palliative care for respiratory patients: A 4-year review of integrated respiratory palliative MDT
Muhammad Salman Rashid (Leeds, United Kingdom), Suzie Gillon, Mike Stockton, Ellie Kane, Ash Birtles, Alison Boland

PA3765
Advances in Telemonitoring of Home Mechanical Ventilation (Brazil): Outcomes and update
Claudia Simeire Albertini (São Paulo (SP), Brazil), João Paulo Silveira, Maria Clariane Bertó Hayashi, Vinicius Oliveira, Gerardo Ferrero, Debora Nunes Da Silva, Miguel Victor Deganutti Krause

PA3766
Title: Effects of exercises on lung function of NCFB and healthy subjects evaluated by impulse oscillometry system
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Daniele Oliveira Dos Santos, Ana Lara De Castro Rodrigues, Larisse Souza Reis, Jéssica Perossi, Sulamita Pereira Rosa, Larissa Perossi, Hugo Celso Dutra De Souza, José Antônio Baddini-Martinez
**PA3767** Determination of parameters associated with physical activity levels in spinal cord injury
Kubra Kardes (BAĞCILAR, Turkey), Yasemin Buran Cirak, Emine Atici, Barcu Isikci, Yunus Emre Tutuneken, Nurgül Durustkan Elbasi

**PA3768** Oropharyngeal dysphagia in COPD patients
Anne Sophie Malishchuk (Rouen, France), Armand Bonne, Riméh Ayari, Eric Verin

**PA3769** Pulmonary rehabilitation following hospitalised exacerbations in people with bronchiectasis
Jennifer Kilduff (London, Ireland), Claire Nolan, Suhani Patel, Anand Shah, Janet Stowell, William Man

**PA3770** Infant tracheostomy—consider the need for long term ventilation (LTV) in infants needing tracheostomy for airway issues
Siddhant Lalwani (Birmingham, United Kingdom), Swathi Sanapala, Channa Panagamuwa, Prasad Nagakumar, Isobel Brookes

**PA3771** Patients’ clinical and psychological status in different COVID-19 waves: a quanti-qualitative study
Marina Maffoni (Montescano, Italy), Martina Vigorè, Valeria Torlaschi, Alessandra Gorini, Maria Teresa La Rovere, Roberto Maestri, Maurizio Bussotti, Sergio Enea Masnaghi, Francesco Fanfulla, Antonia Pierobon

**PA3772** Building healthcare professionals consensus on non-pharmacological patient care priorities during hospitalisation and post-discharge phases following acute exacerbation of chronic obstructive pulmonary disease (AECOPD)
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sanjay Ramakrishnan, Sally Singh

**PA3773** Prehabilitation in lung cancer surgery: A review and meta-analysis of RCT studies
Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Evangelia Chatzimichali, Evangelia Liverakou, Aikaterini Katsandi, Ioannis Kalomenidis, Paraskevi Katsaounou

**PA3774** The Successful Procedures Of weaning from Tracheostomy (SPOT) study: preliminary analysis of predictive factors for failure and validation of the QsQ score
Dejan Radovanovic (Milano (MI), Italy), Marina Gatti, Debora Spitaleri, Stefano Pini, Marina Saad, Andrea Gramegna, Michele Mondoni, Stefano Aliberti, Fabiano Di Marco, Stefano Centanni, Francesco Blasi, Pierachille Santus

**PS-10 in poster area**
**Session 377** 08:00 - 09:30
Poster session: Monitoring in chronic airway disease (1)

**Disease(s)**: Airway diseases

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

**Tag(s)**: Clinical

**Chairs**: Marieann Högman (Uppsala, Sweden), Giuseppe Guida (ORBASSANO (TO), Italy)

**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, Yusuhito Suzuki, Atsuro Fukuhara, Tomoyoshi Lee, Ryuki Yamada, Riko Sato, Takumi Onuma, Hikaru Tomita, Natsumi Watanabe, Takaya Kawamata, Julia Morimoto, Ryuichi Togawa, Yuki Sato, Hiroyuki Minemura, Takefumi Nishikawa, 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 Pavor, Hiromasa Inoue, David Price, José Olaguibel, Huib Kerstjens, Maarten Van Den Berge

**Establishment of the alpha-1 research registry analyzing demographic and participant specific characteristics**
Jeanine D’Armento (New York, United States), Alison Keaveny, Laura Fonseca, CharlieStrange,JamesMichaelWells, Nadine Nuchovich, Randel Plant, MonicaGoldklang

**Recognizing asthma risk scenarios: individualized inhaler usage and inhalation parameter profiles from an electronic inhaler with integrated sensors**
Guilherme Safioti (Stigtomta, Sweden), Mark Levy, Flavia Hoyte, Giselle Mosnaim, Michael Wechsler, Nathalie Magnus, Katja Sagalovich, Sinthia Bosnic-Anticevich, Janwillem Kocks
PA3780 Preventing hospital readmissions of COPD patients: alerting rules on vital signs for remote patient monitoring
Yann Le Guillou (Cesson-Sévigné, France), Florian Tilquin, Sylvain Le Liepvre, Graziella Brinchault, Tiphaine Guy, Fanny Thépault

PA3781 COPD Screening and Ventilatory Function Assessment based on smartwatch sensor signals
Yibing Chen, Lu Cao, Dahui Zhao, Song Meng, Dan Li, Wenjuan Chen, Jing Li, Kailun Xia, Lixin Xie

PA3782 RS and PRISm: symmetric reductions in FEV1 and FVC?
Tobias Lorenz Mráz (Wien, Austria), Caspar Schifffers, Emiel Wouters, Marie-Kathrin Breyer, Otto Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

PA3783 Validation of the Obstructive Lung Disease Questionnaire in a primary care cohort, with additional focus on ACO in primary and tertiary care
Liz Cuperus (Rotterdam, Netherlands), Catheljine Van Zelst, Huib Kerstjens, Rudi Hendriks, Maureen Rutten-Van Molken, Jacqueline Muilwijk-Kroes, Gert-Jan Braunstahl, Hans In ‘t Veen

PA3784 Exploratory study of a risk prediction artificial intelligence model to diagnose asthma and COPD in Mexico
Ramses Hernandez (Mexico, Mexico), Roxana Rodriguez, Oscar Villalva, Joaquin Pimentel, Jose Luis Miguel, Miguel Angel Villasis

PA3785 Utility of the Oscillometer in the detection of small airways dysfunction (SAD) in patients with respiratory symptoms and normal lung function
Raja Dhar (Kolkata (West Bengal), India), Sushmeeta Chhowala

PA3786 Impulse oscillometry findings in subjects with preserved ratio impaired spirometry (PRISm)
Andrei Malinovschi (Uppsala, Sweden), Gunnar Engström, Suneela Žaigham, Johan Sundström, Christer Janson, Per Wollmer

PA3787 Double Pulmonary diffusing capacity for NO and CO (DLNO/CO) in patients with COPD: implications beyond traditional lung function assessments
Emilie Maufroy (Bruxelles, Belgium), Silvia Perez Bogerd, Kevin Forton, Corentin Scoubeau, Thomas Schaefer, Alain Michils, Alain Van Muylem, Vitalie Faoro

PA3788 Nutrition Risk Index: A predictive metric of severity and subsequent lung impairment in COPD
Warda Jelassi (Tunis, Tunisia), Chaima Habouria, Nidhal Belloumi, Imen Bechouch, Fatma Chermiti, Soraya Fenniche

PA3789 The effect of mobile health application on symptom control, self-efficacy and chronic disease management in COPD
Bilun Gemicioglu (Istanbul, Turkey), Neşe Özdemir, Nuray Enç

PA3790 Comparing testing parameters for forced oscillation technique among healthy Indians with published reference norms
Madhuri Batyala (Tirupati, India), Shantanu Tilak, Lancelot Pinto

PA3791 Predictors of Pulmonary hypertension in chronic obstructive pulmonary disease
Lamia Shaaban (Assiut, Egypt), Ashraf Zin El-Abdeen Mohamed, Amira Emad El-Din, Ali Mohamed Tohami, Waleed Gamal

PA3792 FeNO@Home: a proof of concept protocol for home monitoring fractional exhaled nitric oxide in patients with asthma
Enrico Marco Heffler (Milano, Italy), Giovanni Paoletti, Tim Harrison, Matthew J Martin, Kai-Michael Beeh

PA3793 How up-to-date is the Electronic Health Record?
Maarat Albers (Enschede, Netherlands), C.C. Bucsán, J. Van Der Palen

PA3794 Prevalence of subjects enrolled in CPASS who have peak flow rate: height ratio of < 2.2 liters/sec/meter2
Shane Villamonte (Manila, Philippines), Guinevere Agra, Celeste Mae Campomanes, Teresita De Guia, Helen Isaac, Lenora Fernandez, Rodolfo Pagcatipunan, Roland Panaligan, Tim Trinidad

PS-11 in poster area
Session 378
08:00 - 09:30
Poster session: Environment, occupation, and lung diseases
Disease(s): Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Public health, Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing, Physiology
Tag(s): Translational
Chairs: Christopher C. Huntley (Bromsgrove, United Kingdom), Benoît Nemery (Leuven, Belgium)
PA3795 Outcome of artificial stone silicosis in an Italian cluster of patients
Paola Mason (Padova (PD), Italy), Marco Biasioli, Filippo Liviero, Piero Maestrelli, Stefania Vio
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<td>Silicosis in rutilated quartz miners in Brazil</td>
<td>Lavinia Clara Del Roio (São Paulo (SP), Brazil), Jefferson Benedito Pires De Freitas, Rafael Futoshi Mizutani, Gustavo Corrêa De Almeida, Mario Terra-Filho, Ubiratan De Paula Santos</td>
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<td>Occupational trends in asbestos-related pleural disease (ARPD): data from the SWORD scheme</td>
<td>Ruth Wiggins (Manchester (Greater Manchester), United Kingdom), Rheanna Pereira, Laura Byrne, Ireny Y. K. Iskandar, Melanie Carder, Christopher Barber, Martie Van Tongeren</td>
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<td>Asbestos exposure, a cause of pleuroparenchymal fibroelastosis (PPFE)?</td>
<td>Christopher C. Huntley (Bromsgrove, United Kingdom), Sherwood Burge, Alastair Robertson, Madava Djeraman, John Reynolds, Gareth Walters</td>
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<td>PA3799</td>
<td>Decrease of DLCO and VC is associated with asbestos-related changes on TCT</td>
<td>Alexandra Marita Preisser (Hamburg, Germany), Lennart Ströker, Kersten Peldschus, Robert Herold, Volker Harth</td>
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<td>The Nintedanib in Progressive Pneumoniosis Study (NiPPs): early data from Australia.</td>
<td>Aruvi Thiruvanudchelvan (Lidcombe, Australia), Louise Hart-Brown, Mark Bloch, Deborah Yates</td>
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<td>PA3801</td>
<td>RELATIONSHIP BETWEEN AIR POLLUTION IN COMUNIDAD DE MADRID AND THE DEVELOPMENT OF CHRONIC RESPIRATORY FAILURE IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSI</td>
<td>Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Cristina Mariscal Aguilar, Carlos Carpio, Ester Zamarrón, Daniela Alloca, Isabel Esteban, Maria Fernández-Velilla, Gema Bonilla, Isabel Esteban, Rita Regojo, Concepción Prados, Rodolfo Alvarez-Sala</td>
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<td>Potential biomarkers for the diagnosis of patients with fibrotic hypersensitivity pneumonitis</td>
<td>Silvia Sánchez-Díez (Barcelona, Spain), Xavier Muñoz, David Espejo, Susana Gómez-Ollés, Iñigo Ojanguren, Christian Romero-Mesones, Maria-Jesús Cruz</td>
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<td>Sara Maio (Pisa (PI), Italy), Giuseppe Sarno, Sandra Baldacci, Anna Angino, Ilaria Stanisci, Sofia Tagliaferro, Patrizia Silvi, Giovanni Vieg</td>
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<td>Ahmet Sevik (Zuerich, Switzerland), Dominic Gilliand, Renaud Persoons, Benoit Champigneulle, Julien Brugniaux, Samuel Verges, Michael Furian</td>
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<td>Effects of hypobaric hypoxia on workers in a ski resort</td>
<td>Pedro José Romero Palacios (Pelígrros, Spain), Bernardino Alcázar Navarrete, Antonio Luis Arrebola Moreno, Juan Antonio Holgado Terriza, Maríá Weneceslalª Puya Pérez</td>
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<td>PA3806</td>
<td>Lung deposition patterns of anthracosis is related to air pollution environment by geolocalization in a temporal manner</td>
<td>Maria Julia Faci do Marco (Ribeirão Preto (SP), Brazil), Sabrina Setembre Batah, Heloisa Acurcio Zimerman, Mateus Magalhães Lage Moraes, Alexandre Todorovic Fabro</td>
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<td>PA3807</td>
<td>Soot particles induce cytotoxicity, oxidative stress and inflammatory responses in structural lung cells linked to adverse health effects from exposure to polluted air.</td>
<td>Anna-Karin Larsson-Callerfelt (Lund, Sweden), Nilofar Faruqui, Sofie Orell, Camilla Dondi, Jenny Rissler, Konstantina Vasilatu, Ian Mudway, Monica Karedal, Michael Shaw</td>
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<td>PA3808</td>
<td>Association between Covid-19 pandemic and shift work: the COVISTRESS online survey</td>
<td>Elvia Giovanna Battaglia (Milano (MI), Italy), Monica Puligheddu, Rosamaria Lecca, Matteo Figorilli, Maria Livia Fantini, Maëlys Clinchamps, Frédéric Dutheil, Pierluigi Cocco</td>
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<td>PA3809</td>
<td>Comparison of the immune response of respiratory healthcare workers to booster vaccination against SARS-CoV-2 and to a subsequent viral infection</td>
<td>Imre Barta (Budapest, Hungary), Viktória Szé, Imola Mán, Lilla Lőrinczi, Balázs Antus</td>
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<td>PA3810</td>
<td>Long-term risk of COVID-19 after extreme smoke exposure</td>
<td>Michael J. Abramson (Melbourne (VIC), Australia), Tyler Lane, Matthew Carroll, Brigitte Borg, Tracy Mcaffrey, Caroline Gao, Catherine Smith, David Brown, David Poland, Shantelle Allgood, Jillian Ikin</td>
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<td>PA3811</td>
<td>Exposures to air pollution and respiratory diseases in adults: an innovative multipollutant approach</td>
<td>Sara Maio (Pisa (PI), Italy), Salvatore Fasola, Alessandro Marcon, Anna Angino, Sandra Baldacci, Maria Beatrice Bilò, Roberto Bono, Claudio Gariazzo, Stefania La Grutta, Pierpaolo Marchetti, Pietro Pirina, Giuseppe Sarno, Patrizia Silvi, Camillo Silibello, Giulia Squillaciotti, Massimo Stafoggia, Ilaria Stanisci, Sofia Tagliaferro, Giuseppe Verlato, Giovanni Vieg</td>
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Clinical and inflammatory profile before and after specific inhalation challenge in individuals with suspected occupational asthma to persulfate salts

PA3812

MARIA SAEZ LOPEZ, Silvia Sánchez-Diez, Christian Romero Mesones, David Espejo, Iñigo Ojanguren, María Jesús Cruz, Xavier Muñoz

Lung function impairment and COPD in workers from production of chemical materials for construction and engineering

PA3813

Dragan Mijakoski (Skopje, North Macedonia), Sasho Stoletski, Jordan Minov, Aneta Atanassova, 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

PA3814

Artur Badyla (Warszawa, Poland), Piotr Dąbrowiecki, Agata Dąbrowiecka, Anna Piórkowska, Andrzej Chciałowski

PS-12 in poster area

Session 379 08:00 - 09:30

Poster session: Recent advances in behavioural science in chronic respiratory disease

Disease(s) : Respiratory critical care, Airway diseases, Thoracic oncology, Sleep and breathing disorders, Interstitial lung diseases, Pulmonary vascular diseases

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

Tag(s) : Clinical

Chairs : Marieke Verkleij (Amsterdam, Netherlands), Jeannette Jacobs-Peters (Nijmegen, Netherlands)

PA3815

The influencing factors of depressive symptom trajectories among COPD patients

Cui Wang (Beijing, China), Hongbo Chen, Peiyuan Liu, Ziqiu Zou, Shaomei Shang

PA3816

Impact of Shared Decision Making on medication adherence in patients with COPD and/or asthma: The ANANAS study.

María Achterboschm (Groningen, Netherlands), Priya Vart, Liset Dijk, Van, Job Boven, Van

PA3817

Improving depression symptoms in COPD patients through home-based pulmonary rehabilitation with health coaching

Maria Benzo (Rochester, United States), Madison Roy, Roberto Benzo

PA3818

COPD-related anxiety: A systematic review of patient perspectives.

Camilla Fischer Christiansen (Børkop, Denmark), Anders Løkke, Vibeke Bregnballe, Thomas Prior, Ingeborg Farver-Vestergaard

PA3819

COVID-19 vaccination hesitancy in the European population aged 50+

Anna Boros (Warszawa, Poland)

PA3820

The use of a questionnaire underpinning Capability, Opportunity, and Motivation to determine the psychological and behavioural barriers to adherence in patients with asthma (The COM-Behaviour asthma study).

Alice Munns (Kent, United Kingdom), Laura Wiffin, Daphne Kaklamanou, Ina Kostakis, Alessandra Fasulo, Thomas Brown, Anoop Chauhan

PA3821

Neurocognitive and Neuropsychiatric Sequelae of Long COVID (LC) patients (pts)

Paraskevi Katsaounou (Athens, Greece), Evniki Ntinopoulo, Maria Karytnou, Sofia Margariti, Sofia Sideri, Katerina Poprelka, Theodoros Fasilos, Panayiotis Patrikelis, Maria Stefanatou, Archodoula Adonoglou, Sofia Pappa, Stylianos Gatzonis

PA3822

Emotions associated with bouts of cough. A study in patients with refractory/unexplained chronic cough

Ebymar Arismendi Nunez (Vilassar de Dalt, Barcelona, Spain), Luis Puente-Maestu, Ignacio Dávila, Santiago Quirce, Francisco Javier González-Barcala, Luis Cea-Calvo, Marta Sanchez Jareño, Cristina Rivas-Pardinas, Christian Domingo-Ribas

PA3823

Measuring the stigma of long COVID: principles and practices transferrable to other stigmatizing respiratory conditions

Ronald Damant (Edmonton (AB), Canada), Liam Rourke, Ying Cui, Grace Lam, Maeve Smith, Desi Fuhr, Jacqueline Tay, Rhea Varughese, Cheryl Laratta, Angela Lau, Eric Wong, Mike Stickland, Giovanni Ferrara

PA3824

A qualitative study explaining family-management of children’s and young people’s asthma in the changing COVID-19 context

Grace Lewis (Leeds, United Kingdom), Linda Milnes, Alexandra Adams, Jürgen Schwarze, Alistair Duff
Non-Invasive Ventilation (NIV) in people affected by COVID-19 pneumonia: evaluation between acute and rehabilitation settings
Elenora Volpato (Milano (MI), Italy), Paola Pierucci, Valentina Poletti, Lavinia Di Palma, Alessandro Pilon, Giovanna Elisiana Carpagnano, Laura Fagetti, Paolo Banfi

Sleep disorders between COVID-19 survivors with different levels of fear of COVID
Alvaro Montañéz (Mexico City, Mexico), Liseth Sarai Castañeda Ordóñez, Viridiana Peláez Hernández, Diana Everanda Torres Gómez, Mauricio Reyes Franco, Adrián Rosas Trujillo, Fernando Casarin López, Ana Patricia Pedro Portillo, Nadia Hernández López, Mildred Corina De La Concha Duarte, Guiedani Galván Bautista, Arturo Rodríguez Medina, Luz Jiménez Gallardo, Rocio Sánchez Santillán, Arturo Orea Tejeda

The usefulness of relationships assessing between personality dimensions as an element differentiating patients with obstructive sleep apnea.
Paweł Kwiecień (Warsaw, Poland), Joanna Domagała-Kulawik

Effectiveness of brief referral methods for smoking cessation – a literature review
Mads Hansen (Odense C, Denmark), Ingeborg Farver-Vestergaard, Anders Løkke

Psychological affectation in caregivers of respiratory failure patients by age groups

Reassessing the mental health of Respiratory High Care Unit (RHCU) staff in the aftermath of the COVID-19 pandemic
Hannah Badawy (Solihull, United Kingdom), Catherine Salisbury, See Ling Tan, Abhimanyu Lal

Autonomic alterations measured by temperature in COVID-19 survivors with and without IMV
Adrian Rosas Trujillo (CDMX, Mexico), Viridiana Peláez Hernández, Mauricio Reyes Franco, Diana Everanda Torres Gómez, Fernando Casarin López, Ana Patricia Pedro Portillo, Mildred Corina De La Concha Duarte, Guiedani Galván Bautista, Arturo Rodríguez Medina, Luz Magdaly Jiménez Gallardo

Smoking behavior of the Tunisian physicians
Hana Mrassi (Tunis, Tunisia), Hanen Smadhi, Ines Akrout, 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 Saei, Morten Borg, Ole Hilberg, Anders Løkke
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<tr>
<th>PA3838</th>
<th>Balance between neutrophil extracellular trap formation and DNase activity in COVID-19 patients: a prospective cohort study</th>
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<tr>
<td>Renaud Prével (Bordeaux, France), Geoffrey Garcia, Sylvie Colomer-Labrouche, Alexandre Duvgiaud, Etienne Clequin, Charles Dussiau, David-Alexandre Tregouët, Denis Malvy, Julien Goret, Maria Mamani-Matsuda, Antoine Dewitte, Chloe James</td>
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<tr>
<th>PA3839</th>
<th>Levels of inflammatory and cardiac biomarkers as a predictor factor for complications and outcomes in hospitalized COVID-19 patients</th>
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<td>Nona Rovira Ribalta (Solsona, Spain), Catia Cilloniz, Ruben López-Aladid, Ana Motos, Josep Lluís Bedini, Alba Soler-Comas, Roberto Cabrera, Kasra Kiarostami, Blanca Llionch, Laia Fernández-Barat, Antoni Torres</td>
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<tr>
<th>PA3840</th>
<th>Altered red blood cell metabolism in COVID-19: A source of biomarkers to predict evolution</th>
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<td>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</td>
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<tr>
<th>PA3841</th>
<th>Altered peripheral blood neutrophil profiles are associated with persistent symptoms post-COVID-19</th>
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<tr>
<td>Chloe Hughes (Dundee, United Kingdom), Merete Long, Holly Keir, Yan Hui Giam, Thomas Pembridge, Amy Gilmour, Amelia Shoemark, David Connell, Faisal Khan, James Chalmers</td>
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<th>PA3842</th>
<th>Evaluating the utility of a serum calprotectin lateral flow test in acute lung infection</th>
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<td>Amy Gilmour (Dundee, United Kingdom), Chloe Hughes, Merete B Long, Holly R Keir, Yan Hui Giam, Hani Abo-Leyah, Thomas Pembridge, Lilia Delgado, Rebecca C Hull, Benjamin Jm New, Rebecca Dowey, Helena Turton, Alison M Condliffe, James D Chalmers, A A Rodger Thompson</td>
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<tr>
<th>PA3843</th>
<th>TSLP gene polymorphisms and alarmin protein levels in COVID-19</th>
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<tr>
<td>Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Wattie, Lesley Wiltshire, Jennifer Le Roux, Eric Cheng, Thivyra Srinathan, Terence Ho, Roma Sehmi, Mylinh Duong, Gail Gauvreau</td>
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<tr>
<th>PA3844</th>
<th>Phenotypic Characteristics of Hospitalized Patients with COVID-19 Pneumonia Using Machine Learning Consensus Clustering Approach</th>
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<tr>
<td>Nuttinan Nalnthsanai (Bangkok, Thailand), Dararat Eksombatchai, Viboon Boonsangsuks, Pongdhep Theerawit, Yuda Sutherasan, Detajin Junhasavasdikul, Som nuek Sangkunuparp, Tanapat Tassaneyasins, Rachainant Thammasudjarit, Tananchai Petnak</td>
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<tr>
<th>PA3845</th>
<th>Cytokine and chemokine signature of COVID-19 and predictive markers</th>
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<tr>
<td>Maral Ranjbar (Hamilton, Canada), Ruth Cusack, Christiane Whetstone, Shiraz Nawaz, Christopher Khoury, Jennifer Wattie, Lesley Wiltshire, Jennifer Le Roux, Eric Cheng, Thivyra Srinathan, Terence Ho, Roma Sehmi, Mylinh Duong, Gail Gauvreau</td>
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<tr>
<th>PA3846</th>
<th>Soluble Bradykinin as a clinical prognostic marker for SARS-CoV2?</th>
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<td>Pajanivel Ranganadin (PONDICHERRY (Tamil Nadu), India), Agiesz Kumar Balakrishnan, Vignesh Mariappan</td>
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<th>PA3847</th>
<th>COVID-19 pneumonia: when do eosinophils matter?</th>
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<td>Nicol Bernardinello (Trecenta (RO), Italy), Dylan Pasin, Giulia Grisostomi, Chiara Giraudo, Gioele Castelli, Elisabetta Cocconcelli, Anna Maria Cattelan, Paolo Spagnolo, Elisabetta Balestro</td>
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<tr>
<th>PA3848</th>
<th>miR-21-5p high expression levels in younger hospitalized COVID-19 patients are associated with mortality and critical disease</th>
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<tr>
<td>Ramés 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</td>
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<th>PA3849</th>
<th>Vitamin D values in post-COVID syndrome patients are lower than in control groups</th>
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<tr>
<td>Jens Bräunlich (Leipzig, Germany)</td>
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<th>PA3850</th>
<th>Procalcitonin to rule out early bacterial coinfection in COVID-19 critically ill patients</th>
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<tr>
<td>Francesco Bindo (Cusano Milanino, Italy), Flavia Galli, Anna Motos, Laia Fernandez-Barat, Enric Barbeta, Sofia Misuraca, Andrea Palomeque, Ferran Barbé, Antoni Torres</td>
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<tr>
<th>PA3851</th>
<th>Who gets persistent symptoms and why - analysing the plasma proteome in long COVID</th>
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<td>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</td>
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<th>PA3852</th>
<th>Predictors of mortality among COVID-19 patients in Shebin El Kom Chest Hospital</th>
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<tr>
<td>Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Sarah El-Sayed Zaki Zaki, Ahmed Abd El-Rahman Ali, Asmaa Metwally Abd El-Tawab</td>
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PA3853 Ferritin to Procalcitonin (F/P) ratio in patients with COVID19 pneumonia versus bacterial pneumonia. Do we have a reliable and challenging biomarker? Radmilja Dmitrovic (Belgrade, Republic of Serbia)

PA3854 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-14 in poster area Session 381 08:00 - 09:30
Poster session: Pleural and miscellaneous infections
Disease(s) : Airway diseases, Respiratory critical care
Method(s) : Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Respiratory intensive care, Public health, Imaging, Pulmonary rehabilitation, Surgery
Tag(s) : Clinical
Chairs: Eric Mortensen (Simsbury, United States), Chair to be confirmed

PA3855 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

PA3856 RAPID Score: Mortality and hospitalization risk stratification in pleural empyema Maria Joao Lúcio (linda a velha, Portugal), Eva Brysch, Margarida Guerreiro, Fernando Nogueira

PA3857 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 Stenehem, Y. C. G. Lee

PA3858 Intrapleural use of tissue plasminogen activator and DNase in management of pleural infection Prashanth Shetty (Aston Clinton, United Kingdom), Alex Francioni, Aedle Jafri

PA3859 Clinical features of pneumothorax associated with COVID-19: a single-centre retrospective analysis Kohei Fujita (Kyoto, Japan), Toshiyuki Iwata, Osamu Kanai, Hiroaki Hata, Masayuki Hashimoto, Hiroyuki Tanaka, Takao Odagaki, Tadashi Mio

PA3860 Association between time-to-treatment and prognosis of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients: A multi-centre, retrospective observational cohort study (RE-VISION-PCP) Haruka Fujioka (Kamogawa, Japan), Yuya Homma, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3861 Chronic non-infectious lung conditions in HIV-infected children at Chris Hani Baragwanath Academic Hospital. Kegode E1, Verwey C1, Sipambo N1. 1 University of Witwatersrand, South Africa everline kegode (johannesburg, South Africa)

PA3862 Prognostic factors of pneumocystis pneumonia in non-human immunodeficiency virus-infected immunocompromised patients: A multi-centre, retrospective, observational cohort study (RE-VISION-PCP) YUYA HOMMA (Chiba, Japan), Haruka Fujioka, Tatsuya Nagai, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3863 Efficacy and safety of low-dose versus conventional-dose trimethoprim-sulfamethoxazole treatment for pneumocystis pneumonia in non-human immunodeficiency virus-infected patients: A multi-centre, retrospective observational cohort study (RE-VISION-PCP) Tatsuya Nagai (Kamogawa, Japan), Haruka Fujioka, Yuya Homma, Ayumu Otsuki, Hiroyuki Ito, Kei Nakashima

PA3864 Impact of bronchoalveolar lavage on the management of immunocompromised hosts Kathleen Jahn (Basel, Switzerland), Meropi Karakioulaki, Desiree Schumann, Hans Hirsch, Karoline Leuzinger, Letizia Grise, Stefano Alberti, Giovanni Sotgiu, Michael Tam, Daiana Stolz

PA3865 Clinical outcomes of haematological patients undergoing bronchoscopy in a registry of immunocompromised patients evaluated for pulmonary infections. Eugene Gan (Singapore, Singapore), Brian Chua, You Xin Puan, Timothy Toh, Saripalli Kundan Reddy, Isaac Fong, Deshawn Tan, Yi Hern Tan

PA3866 Burden of hospitalized adult pertussis in France, 2008-2020 Denis Macina (LYON, France), Mickael Arnaud, Johanna Despres, Ana Antunes, Regis Verdier, Juan C Vargas Zambrano

PA3867 Antibiotic treatment strategies in a Danish cohort of patients with lung abscesses. Søren Sperling (Aarhus N, Denmark), Victor Næstholt Dahl, Jakob Kirkegaard Vaarst, Christian Borbjerg Laursen, Tina Nørregaard Gissel, Pia Holland Gjørup, Andreas Floe, Elisabeth Bendstrup
PA3868  **Pulmonary nocardiosis as an emerging infection in non-cystic fibrosis bronchiectasis**  
Mariapia Niceforo (Pisa, Italy), Miriam De Francesco, Roberta Gaeta, Federica Di Giorgi, Davide Chimera, Federico L. Dente, Roberta Pancani, Massimiliano Desideri, Francesco Pistelli, Laura Carrozzini

PA3869  **Biochemical parameters predicting diagnosis of melioidosis pneumonia: a retrospective observation analysis**  
Han Jia Chew (SARAWAK, Malaysia), Yee Yew Loong, Tung Ung John Tang, Cheng Foong Cheah

PA3870  **Impact of immune status on the clinical characteristics, treatment outcomes and mortality of pulmonary nocardiosis: A retrospective analysis in a tertiary care hospital from a low to middle-income country**  
Yasmin Rahim (Kettering, United Kingdom), Syed Muhammad Zubair, Muhammad Mustansir Mehdi Khan, Hamza Ahmed Ibah, Muhammad Irfan

PA3871  **Lung contusion due to military chest injury as a risk factor for bacterial pneumonia and other respiratory infections.**  
Oleh Yakovenko (Lutsk, Ukraine), Eduard Khodosh, Iryna Gritsiyk

PA3872  **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**  
Kelvin Mar Bartolome (Quezon City, Philippines), Ma.Encarnita Blanco-Limpin, Aileen Guzman-Banzon

PA3873  **Bacteriological spectrum and drug susceptibility in post tuberculosis bronchiectasis**  
Tehreem Ahmad (Karachi, Pakistan), Faisal Faiyaz Zuberi

PA3874  **The Neutrophil-to-Lymphocyte ratio as a biomarker of severity in bronchiectasis**  
Mariem Friha (Ariana, Tunisia), Ines Moussa, Hana Mrassi, Sarra Ben Sassi, Sarra Trimch, Chirine Zaier, Imen Sahnoun, Leila Douik El Gharbi

**PS-15 in poster area**  
Session 382  
08:00 - 09:30  
Poster session: Lung cancer challenges in real clinical settings

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

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

**Tag(s):** Clinical

**Chairs:** Armin Frille (Leipzig, Germany), Chair to be confirmed

Development and validation of a predictive score of venous thromboembolism in patients with lung cancer: Tunisian Survey  
Houda Rouis (Ariana, Tunisia), Chirine Moussa, Islem Mejri, Hela Kamoun, Soumaya Debiache, Nourchene Khalfallah, Linda Ben Hamida, Amiel Khattab, Zied Moetamri, Mohamed Amine Megdiche, Sonia Maâlej

Treatment with low-molecular-weight heparin negatively effects lung cancer patient survival  
Julia Held (Hannover, Germany), Marc A. Schneider, Tobias Welte, Sabina Janciauskiene, Thomas Muley

Thromboembolic events in lung cancer patients: what special features?  
Lenda Ben Hmida (Rades, Tunisia), Chaima Habouria, Nidhal Belloumi, Sirine Daoud, Hend Abid, Imen Bachouch, Fatma Chermiti, Soraya Fenniche

ETIOLOGICAL PROFILE OF SUPERIOR CAVE SYNDROME  
meryem zadi (CASABLANCA, Morocco)

The Assess Respiratory Risk in Surgical Patients in Catalonia (ARISCAT) score overestimates postoperative complications’ risk in thoracic surgery.  
Georgia Hardavella (Athens, Greece), Ioannis Karampinis, Maria Salomidou, Irma Bracka, Theodoris Daskalos, Antonia Zachariou, Ellï 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  
Lan 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 Sutrakdar, 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 Koegelenberg

The Impact of COVID-19 on Lung Cancer diagnoses and treatment at St George's Hospital, London
Praveen Natarajan (London, United Kingdom), Eunice Xing, Danyal Jajbhay, Jamie Arberry, Jessica Gates, Jon Panaguiton, Eilish Yarham, Hassan Ahmed, Roshan Siddique, Raminder Aul, Yee Ean Ong, Adrian Draper

Has the covid pandemic influenced the diagnosis of patients with lung cancer?
Imanol Gonzalez Muñoz (Barakaldo, Spain), Jone Solorzano Egurbide, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gonzalez Quero, Edurne Echevarria Guerrero, Laura Cortezon Garces, Teresa Bretos Dorronsoro, Larraitz Garcia Echeberria

Impact of coronavirus disease 2019 on the clinical course of thoracic malignancies
Osamu Kanai (Kyoto, Japan), Takamori Ito, 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 Intrathoracic Cancer who were admitted due to COVID 19 at Lung Center of the Philippines
IVARRÈNE 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

Impact of Bifidobacterium longum BB536 on nausea caused by pirfenidone in a mouse model of pellagra
Koji Kuronuma (Sapporo, Japan), Natsumi Susai, Takeshi Yoshi moto, Hiromasa Tachibana, Satoru Sawai, Tadashi Mio

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Impact of coronavirus disease 2019 on the clinical course of thoracic malignancies
Osamu Kanai (Kyoto, Japan), Takamori Ito, 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 Intrathoracic Cancer who were admitted due to COVID 19 at Lung Center of the Philippines
IVARRÈNE 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?
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Metastatic lung cancer: another symptom of Long COVID?
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Abnormal phosphorylation of Per2 induces myofibroblast transformation and promotes the development of pulmonary fibrosis
Mei Chen (Chengdu (Sichuan), China), Lian Liu

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Mari Nogami-Itoh (Ibaraki-shi, Japan), Masataka Kuroda, Yoshito Takeda, Yuya Shirai, Takatoshi Enomoto, Jun Adachi, Sadao Kurohashi, Eiji Aramaki, Toshiihro Takeda, Yasushi Matsumura, Masahiro Yanagawa, Yayoi Natsume-Kitatani, Kenji Mizuguchi, Naonori 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 Sococio, Elisabet Cantó, Ruben Osuna, Laura Bergantini, Paolo Cameli, Gaia Fabbri, Sara Croce, Giulia Scioscia, Giorgia Moriondo, Giusy Montuori, Matteo Fanetti, Fabrizio Mezzasalma, Diego Castilla, 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

A novel senolytic drug, ARV-825, ameliorates experimental lung fibrosis
Seidai Sato (Hamilton (ON), Canada), Kazuya Koyama, Hirohisa Ogawa, Kojin Murakami, Yuya Yamashita, Nandinder Danzan, Hiroki Bando, Keiko Haji, Nobuhiito Naito, Hiroshi Kawano, Eiji Haru, Yasuhiko Nishioka

Cecilia Bagnera (Pavia, Italy), Sara Bozzini, Eleonora Bozza, Matteo Della Zoppa, Silvia Mancinelli, Federica Briganti, Giulio Mellon, Federica Meloni

A clinical-stage RNAi therapeutic candidate for IPF mediates durable MMP7 silencing in nonhuman primates and human lung tissue
Chahoe 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

Hyaluronic acid decorated-liposome loaded with Imatinib (XHALIP): delivered intratracheally are effective in a Bleomycin model of lung fibrosis
Robert 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.
Sooyeong 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.
Chahoe Lee (Pohang, Republic of Korea), Seokyong Baek, Onyu Park, Xiaoxu Li, Alessia Demasi, Johan Auwerx, Gayeong Hur, Seung-Hyo Lee, Hoe-Yune Jung

Preclinical evaluation of Ezetimibe for repurposing to pulmonary fibrosis.
Chahoe 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
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<td>Characterization of fibrosis-associated pathways in human lung tissue samples in COVID-19 and fibrotic lung diseases</td>
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<td>Vasilis Grammeniatis (Athens, Greece), Marios Papadopoulos, Elisavet Arkoumani, Ethymia Alexopoulou, Kostas Priftis, Kostas Douros</td>
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<td>Adriana Petronela Fildan (Constanta (Constanta), Romania), Roxana-Elena Cirjaliu, Doina-ECaterina Tofolean, Elena Dantes, Oana Cristina Arghir, Laurenţiu-Tony Hangan</td>
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<td>Comparative study assessing the pulmonary function sequelae in post Covid-19 patients during 1st and 2nd wave.</td>
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<td>Katerina Emmanouela Dendropoulou (ATHENS, Greece), Athanasios Kondylis, Maria Christodoulou, Konstantinos Douros</td>
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<td>PA3934</td>
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<td>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</td>
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**PS-18 in poster area**

**Session 385** 08:00 - 09:30

**Poster session: New approaches in rare interstitial lung diseases**

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

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

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

**Chairs:** Cormac McCarthy (Dublin 4, Ireland), Chair to be confirmed

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<td>Efficacy of Jak inhibitors in children with intra-alveolar haemorrhage not related to COPA gene mutations</td>
<td>Anaïs LE (Paris, France), Thomas Perrin, Philippe Drabent, David Drummond, Philippe Reix, Marie-Louise Fremond, Alice Hadchouel</td>
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<td>Cyclic AMP-dependent up-regulation of surfactant protein B in differentiating alveolar basal cells</td>
<td>Petra Khan (Basel, Switzerland), Sabrina Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler</td>
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<td>Myeloid-dependent immunosuppressive features drive IPF progression</td>
<td>Dmytro Sirokha (Munich, Germany), Theodoros Kapellos, Valeria Viteri, Flavia Greiflo, Altana Namsaraeva, Lukas Heumos, Daniela Dietel, Marion Frankenberg, Oliver Eickelberg, Nikolaus Kneidinger, Ali Oender Yildirim, Herbert Schiller, Jürgen Behr, Isis Enlil Fernandez</td>
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<td>PA3939</td>
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<td>Hypomorphic mutation in SFTPB leads to adult pulmonary fibrosis</td>
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<td>PA3941</td>
<td>Induced pluripotent stem cell derived type 2 alveolar epithelial cells: A novel platform for exploring telomere biology in pulmonary fibrosis</td>
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<td>Efficacy and safety of CFTR modulators in patients with interstitial lung disease caused by ABCA3 transporter deficiency</td>
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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
Yasuhiro 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 fibrodyplasia ossificans progressiva (FOP) by respiratory oscillometry (Osc)
Anastasiia Vasileva (Toronto, Canada), Joyce K. Y. Wu, Lianne Tile, 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, Annalisa Allegorico, Velia Malizia, Anna Musucci, Stefania La Grutta, Renato Cutrera

Machine learned decision tree for diagnosis of ASMD among patients with unexplained ILD
Imre Noth (Charlottesville, United States), Francesco Bonella, Wim A Wynts, Pauline Guilmin, Margaux Törnqvist, Stefaan Sansen, Alexandre Dumitriu, Neha Shah, Maja Gasparic, Martin Montmerle

Interleukin-6 and krebs von den lungen 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, Yasuhiro 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 Zorroza, Eva Tabernerio Huguet, Francisco Javier Martinez Núñez, Vanessa Zorrilla Lorenzo, Beatriz Gonzalez Quero, Beatriz Gomez 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

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 Beausiais (Paris 18e Arrondissement, France), Athénaïs Bouchy, Marc Humbert, David Montani, Olivier Sitbon

PS-19 in poster area

Session 386
08:00 - 09:30

Poster session: Risk factors to guide pulmonary hypertension management

Disease(s) : Pulmonary vascular diseases, Interstitial lung diseases
Method(s) : Cell and molecular biology, Epidemiology, Pulmonary function testing, General respiratory patient care, Respiratory intensive care, Physiology, Public health
Tag(s) : Clinical

Chairs : Athénaïs Bouchy (Le Kremlin Bicêtre, France), Vasile Foris (Graz, Austria)

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| PA3958 | Four-strata risk assessment in pulmonary arterial hypertension (PAH) patients treated with selexipag in real-world settings: Insights from EXPOSURE |
| PA3959 | Biomarkers of angiogenesis in pulmonary arterial hypertension and pulmonary hypertension due to left heart diseases |
| PA3960 | Comparison between REVEAL Lite 2.0 and COMPERA 2.0 for risk stratification in Pulmonary Arterial Hypertension |
| PA3961 | Phenotyping vasodilator responsiveness in idiopathic pulmonary arterial hypertension: any role for the cardiopulmonary exercise test? |
| PA3962 | The MRC Dyspnoea scale may predict survival in pulmonary arterial hypertension. |
| PA3963 | Clinical and economic burden of patients with PH-LD and PH-ILD in France |
| PA3964 | Have Physicians Learned What’s New in the 2022 ESC/ERS Pulmonary Hypertension Guidelines? Areas of Improvement and Areas of Further Education Need |
| PA3965 | A patient preference study in pulmonary arterial hypertension (PAH): what matters most? |
| PA3966 | Concordance between physician and patient reported presence of symptoms in patients with pulmonary arterial hypertension in the US, Europe and Japan |
| PA3967 | Higher circulating prolactin associates with lower mortality in pulmonary arterial hypertension |
| PA3968 | Lowering of Mean Pulmonary Arterial Pressure is a Prognostic Marker in Pulmonary Hypertension Patients treated with Subcutaneous Treprostinil |
| PA3969 | Health related quality of life in pulmonary arterial hypertension in the US, Europe and Japan |
| PA3970 | Biomarkers for diagnosis and disease severity in precapillary pulmonary hypertension. |
| PA3971 | Prognostic impact of pulmonary diffusing capacity for carbon monoxide in pulmonary hypertension |
| PA3972 | Residual risk identified in routine non-invasive follow-up assessments in pulmonary arterial hypertension |
| PA3973 | Vasoreactivity in combined pre- and post-capillary pulmonary hypertension and survival |
| PA3974 | Role of 6-MWT and NT-proBNP in the evaluation of survival in Pulmonary Arterial Hypertension |

**PS-20 in poster area**

**Session 388**

**Poster session: Ongoing imaging-related clinical studies in chronic obstructive pulmonary disease, asthma, interstitial lung disease and other pulmonary diseases**
**Disease(s):** Airway diseases, Interstitial lung diseases, Thoracic oncology

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

**Tag(s):** Clinical

**Chairs:** Anna Kerpel-Fronius (Budapest, Hungary)

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**PA3994**
Side-specific assessment of lung function in children with congenital diaphragmatic hernia - functional matrix pencil decomposition MRI as a promising diagnostic tool
Carmen Streibel (Bern, Switzerland), C. Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Marion Curdy, Matthias Horn, Carmen Casaulta, Steffen Berger, Gabriela Marta Dekany, Elisabeth Kieninger, Andreas Bartenstein, Philipp Latzin

**PA3995**
Multisite Hyperpolarized 129Xe MRI Study of Pediatric Primary Ciliary Dyskinesia
Wallace Wee (Toronto (ON), Canada), Brandon Zanette, Samal Munidasa, Sharon Braganza, Daniel Li, Rachel Eddy, Jonathan Rayment, Felix Ratjen, Giles Santyr, Sharon Dell

**PA3996**
Seven years of functional lung MRI in children: experiences of more than 900 matrix-pencil decomposition (MP-)MRI measurements in clinics and research
Carmen Streibel (Bern, Switzerland), C. Corin Willers, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Enno Stranzinger, Ben Brabandt, Marion Curdy, Yasmin Salem, Carmen Casaulta, Insa Korten, Sophie Yammine, Philipp Latzin, Elisabeth Kieninger

**PA3997**
Higher pulmonary artery and vein volumes are associated with disease severity and mortality in smokers with and without COPD

**PA3998**
Radiologic features of COPD exacerbations: quantitative analysis of thorax computed tomography
Selin Ercan (Gothenburg, Sweden), Ali Canturk, Emre Ruhat Avci, Naciye Sinem Gezer, Salihin Selin Ozuygur Ermis, Gozde Tokatli, Gokcen Omeroglu Simsek, Pinar Balci, Aylin Ozgen Alpaydin

**PA3999**
Defining a CT phenotype of severe COPD patients who develop hypercapnia
Renzo Boersma (Groningen, Netherlands), Peter Wijkstra, Jorine Hartman, Marieke Duiverman

**PA4000**
Correlation between frailty and reduced cortical thickness in Chronic Obstructive Pulmonary Disease
Ayumi Fukatsu-Chikumoto (Ube-city, Japan), Tsunahiko Hirano, Shun Takahashi, Takuya Ishida, Tomihiro Donishi, Kazuyoshi Suga, Keiko Doi, Keiji Oishi, Shuichiro Ohata, Yoriyuki Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga

**PA4001**
Inter-disease variability in Dynamic Chest Radiography measurements and Pulmonary Function Tests in patients with Asthma, COPD and ILD
Rachel Burton (Liverpool, United Kingdom), Michael Cheung, Ryan Robinson, Fred Fyles, Thomas Fitzmaurice, Hassan Burhan

**PA4002**
Comparison of HRCT and SPECT in the estimation of emphysema heterogeneity for endoscopic lung volume reduction
Meropi Karakioulaki (Freiburg im Breisgau, Germany), Tim Jonas Hallenberger, Desiree Schumann, Michael Tamm, Daiana Stolz

**PA4003**
Optimized detection of pulmonary emphysema on CT scans of lung cancer screening patients
Hailan Liu (Groningen, Netherlands), Daiwei Han, Marleen Vonder, Marjolein Heuvelmans, Jaeyoun Yi, Zhaoliang Ye, Harry De Koning, Matthijs Oudkerk

**PA4004**
The clinical significance of CT-Thorax in the assessment of difficult to treat Asthma
AMER ALMAGHRABI (BIRMINGHAM, United Kingdom), Ali Bahron, Julie Marsh, Adel Mansur

**PA4005**
Needle based confocal laser endomicroscopy for real-time granuloma detection
Saska van Heumen (Amsterdam, Netherlands), Tess Kramer, Lizzy Wijmans, Christopher Manley, Sandeep Bansal, Dawn Jeannerat, Martijn D. Bruin, Peter Bonta, Jouke Annema

**PA4006**
Sensitivity of chest x-ray for visualisation of one brand of indwelling pleural catheter
Sophie Edgell (Newcastle, Australia), John Harrington, Vineeth George

**PA4007**
HRCT composite fibrosis score correlates with clinical and physiological parameters in IPF
Nils Hoyer (København NV, Denmark), Michael Brun Andersen, Lenne Collatz Lastrup, Saher Burhan Shaker

**PA4008**
Significance of FDG uptake in nodes of IPF patients undergoing PET imaging
Jagdeep Sahota (Letchworth Garden City, United Kingdom), Bulaji Ganeshan, Thida Win, Francesco Fraioli, Raymondo 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 Muthusami (Hereford, United Kingdom), Shiva Bikkamla, 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), Bruno Pedrazzani, Ariele Haagsma, Cristina Pellegrino Baena

Spirometry and chest HRCT abnormalities in symptomatic and asymptomatic patients with inflammatory bowel disease
Asmaa Mohammed Elshazly (Alexandria, Egypt), Rasha Dabees, Mahmoud Reda, Fahmy Hablas, Ahmed Samir, Nashwa Abdel-Wahab

Efficacy and safety of high flow nasal oxygen therapy compared to conventional oxygen therapy in postoperative pulmonary complications: a systematic review and metaanalysis
Jonni Fay Teves (Quezon City, Philippines), Noreen Ada Mangugan, Joann Kathleen Garcia

Ratio of oxygen saturation index and outcomes of high flow oxygen in post-extubated patients: a cohort study
THITI SRICHAROENCHAI (Bangkok, Thailand), Metanee 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 Piacucci, 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, Kaoany Moreira

Impact of HACOR Score and ROX index on Noninvasive Ventilation Failure in patients with acute hypercapnic respiratory failure
Dhouha Ben Braek (Sousse, Tunisia), Sourour Bel Haj Youssef, Yosri Ben Ali, Hend Zorgati, Azer Yaacoub, Nadine Boukadida, Arji Hammedi, Rihab Boubtane, Rahma Ben Jazia, Amen 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
PS-4 in poster area

**Session 390**

**Poster session: Novel insights in respiratory disease-related mechanisms**

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

**Tag(s):** Translational

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Serena Di Vincenzo (Palermo (PA), Italy)

**PA4034** Exploring the role of non-coding RNAs in alveolar epithelial damage in pulmonary fibrosis  
Chiara De Santis (Dublin, Ireland), Konstantinos-Dionysios Alysandros, Fiorella Calabrese, Killian Hurley

**PA4035** The effect of highly selective furin inhibition on matrix metalloproteinases in cystic fibrosis  
Bethany Montgomery (Belfast, United Kingdom), Lisa Douglas, Tatjana Ondrlji, Lorraine Martin

**PA4036** The emergence of myeloid-derived suppressor cells in a murine model of pulmonary fibrosis  
Saeed Kolahian (Marburg, Germany), Nora Vedder, Philipp Gercke, Nikoleta Lautenschlager, Chiel Van Geffen, Jakob Schieb, Tobias Brunn, Tim Lange, Charlotte Vetter, Harald Renz

**PA4037** The involvement of myeloid-derived suppressor cells in the pathogenesis and lung functional impairment in bronchiectasis  
Andreas M. Matthaiou (Drafi, Maroussi, Athens, Greece), Nikoleta Bizymi, Georgios Pitsidianakis, Nikolaos Tzanakis, Katerina M. Antoniou

**PA4038** IL-17A drive oxidative stress and cell growth in A549 cell line: potential protective action of Mediterranean diet  
Mirella Profita (Palermo (PA), Italy), Angela Marina Montalbano, Rosalia Paola Gagliardo, Giusy Daniela Albano

**PA4039** Loss of PTEN activity in COPD airway epithelial cells is modulated by miR-21  
Vanessa Ho (London, United Kingdom), Jonathan R Baker, Keith R 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 Scca1 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 Inguanta

The activity of the anti-inflammatory mediator lipoxin A4 in COPD

Natalia Habshydze (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, Pawel Antoni Kołodziejski, Ewa Pruszyńska-Oszmałek, 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 IncRNA HSALR1 enhances the non-classic signaling pathway of TGF-β1 in HBFs by binding to HSP90AB1

Erankg Yi (Guangzhou, China), Pixin Ran

Preclinical analyses reveal spleen tyrosine kinase as regulator of pulmonary vasoconstriction

Christoph Tabeling (Berlin, Germany), Julia Herbert, Ekaterina Boiarina, Andreas C. Hocke, Olga Danov, Katherina Sewald, Birgitt Gutbier, Martin Russ, Philipp A. Pickerodt, Claudia Spies, Mei Li, Laura Michalick, Jörg Scheffel, Marcus Maurer, Heinz Fehrenbach, Norbert Suttorp, Armin Braun, Norbert Weissmann, Wolfgang M. Kuebler, Martin 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 Lobberg, Geir Christensen, Ole Henning Skjønsberg, Camilla Udjus

AhR controls pulmonary inflammation from cannabis smoke

Emily Wilson (Montreal, Canada), David Eidelman, Carolyn Baglole

LSC - 2023 - Transcriptomic analysis suggests susceptibility to lung diseases post Sars-Cov-2 infection

Deepesh Dhakad (Munich, Germany), Theodore S Kapellos, Gregor Ebert, Thomas M Conlon, Ali Önder 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 Padey, Markus Hengstschläger, Georg Stary, Thomas Weichhart

Anthracosis particulate matter causes changes in macrophages inflammatory response and in expression of genes related to xenobiotics metabolism in co-culture of macrophages with BEAS-2B airway cells
Daniela Perroni Frias (São Paulo (SP), Brazil), Gabriela Lima Vieira, Juliana Smelan, João Paulo Amorim De Lacerda, Thais Mauad, Marisa 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 Wecke, Marius Hengstschläger, Georg Stary, Thomas Weichhart

Population pharmacokinetic (pop-PK) model of GB0139 as a tool to characterise the biomarker response in patients with idiopathic pulmonary fibrosis (IPF)
Vassilios Aslanis (Copenhagen, Denmark), Darius Schweinoch, Alison Mackinson, Nikhil Hirani, Jie Wang-Jairaj, Brigitta Bodák, Ann Kühnel

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, Jérémie Poschmann, Maziar Divangahi

Michelliclode exerts immunomodulatory effect by reducing Oxidative Stress-Induced mitochondrial dysfunction in acute lung injury
WenHua 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
Xiwei Zhang (Headington, Oxford, United Kingdom), Shuailin Li, Wojciech Lason, Sophie Morgan, Paul Kleenerman, 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), 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 Bhattacharai, 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 bronchial asthma(BA)
Tamar Saralidze (Tbilisi, Georgia), Tamara Svanidze, Marina Nonishvili, 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 Huang

Late Breaking Abstract - The Distinct Role of Itaconate in the Activation of Bone Marrow-derived Macrophages and Tissue-resident Alveolar Macrophages
Mengtian Shan (Shanghai, China), Linyu Ran, Huimin Wan, Quan Zhou, Shengjie Deng, Zhongliang Guo, Feilong Wang

Late Breaking Abstract - Large scale phenotyping of long COVID inflammation reveals mechanistic subtypes of disease.
Felicity Liew (London, United Kingdom), Claudia Efstathiou, Sara Fontanella, William Greenhal, 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 ssp1+ macrophages
Jin Jing (Chengdu, China), Hou Wang, Li Shiyue

Identifying the common denominator: Dectin-1 as a promising marker for macrophage modulation in lung cancer and fibrosis
Safaa Naiel (Burlington, Canada), Anna Dvorkin-Gheva, Megan Vierhout, Anmar Ayaub, Takuma Isshiki, Pareesa Ali, Spencer Revill, Amir Reihani, Pavithra Parthasarathy, Hemisha Patel, Ashgar Naqi, Martin Kolb, Kjetil Ask
Evaluation of sleep disordered breathing (OSA/OHS) service during the covid-19 pandemic in a west of ireland tertiary hospital
Katherine Fínan (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 Pedroso (Vila De Prado, Portugal), Joana Naia, Marta Silva, Diana Pimenta, Ana Luisa Vieira, Lurdes Ferreira

Are OSA patients really inclined to use telemedicine services? A single centre Italian survey
Francesco Fanfulla (Pavia (PV), Italy), Irene Risi, Paola Crotti, Elena Robbi, Simona Arcovio

Initiating CPAP with automatic modalities have no differences with conventional clinical practice
Ignacio Vicente (Sabadell, Spain), Aida Muñoz-Ferrer, Borja Domnigo Cardenal, Cristina Esquinas López, Susana Pou Serramia, Juan Treviño Benavente, Toni Zapata Comas, Jorge Abad Capa

A retrospective review of the impact of virtual CPAP set-up on outcomes
Jo Leng Lum (London, United Kingdom), Chevanthy Gnanalingam, Sandip Banerjee

TELEMONITORING SLEEP APNEA TREATMENT Telemonitoring sleep apnea treatment
María Aguado Agudo (Zaragoza, Spain), Jorge Rodriguez Sanz, Teresa Martín Carpi, Luisa Cabrera Pimentel, Marta Miranda

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
Fedérica Di Giorgi (Caltavuturo (Palermo), Italy), Francesco Gambino, Massimiliano Desideri, Vanessa Lo Nano, Claudia Meschi, Alessandra Castrogiovanni, Chiara Cappiello, Marta Amata, Eva Palano, Laura Carrozz, Maria Rosaria Bonsignore

Telemonitoring of obstructive apnoea (OSA) patients on positive airway pressure (PAP) therapy in Malaysia
Mei Ching Yong (Kuching (Sarawak), Malaysia), Yik Hon Ho, Caryn Sujean Lim, Nga Hung Ng, Chan Sin Chai, Swee Kim Chan, Sze Shyang Kho, Siew Teck Tie

Acceptance and cost-effectiveness of telemedicine in patients with obstructive sleep apnea: a single-center randomized controlled trial
Qiong Ou (Guangzhou, China), Guo Pei, Miaochan Lao, Longlong Wang, Yanxia Xu, Jiaoying Tan, Gaihong Zheng

EFFECT OF TELEREHABILITATION ON SLEEP DISORDERS IN OBESE CHILDREN AND ADOLESCENTS DURING THE COVID-19 PANDEMIC: A QUASI-EXPERIMENTAL STUDY WITH FOLLOW-UP
Evelin Gomes (São Paulo (SP), Brazil), Jossiane Luiz, Manoella Andrade, Luciana Sampaio, Dirceu Costa

Quality assessment of sleep studies – comparison between face-to-face teaching and video demonstration
Joana Vieira Naia (Porto, Portugal), Diana Pimenta, Elisabete Santa Clara, Filipa Carriço, Daniela Rodrigues, Mafalda Van Zeller, Marta Drummond

Inline inspiratory infrasound detection during bilevel mask ventilation
Neil Skjodt (Lethbridge (AB), Canada)

CORRELATION BETWEEN CONNECTED BRACELETS AND POLYSOMNOGRAPHY IN SLEEP ASSESSMENT
Maha Ezziine (Fes, Morocco), Salma Animi. HALIMA ELBOUJAMAI, Mohamed Elbiaze, Mohamed Elbiaze, Amara Bouchra, Serraj Mounia, Mohamed Chakib Benjelloun

Model for the selection of candidate patients for respiratory polygraphy
Javier Sánchez Masa (Palencia, Spain), Maria Angeles Escobar Valero, Ana Pérez Dublang, Inés Salazar Lozano, Esther Alonso Sastre, Daniel Alvarez Gonzalez, Sara Barakat Fernández, Maria Covadonga Alonso Payo, Alba Daniela García Molina, Bea Martín Sánchez, Maria Irene Alaejos Pascua, Enrique Alonso Mallo, Ana Isabel Garcia Gonzalo, Francisco Javier Pagán Buzo, Ana Maria Andrés Porras, Jesús Andres De Llano, Andrea Crespo Sedano

In what body positions do people with OSA sleep?
Belinda Rose Miller (Melbourne (VIC), Australia), Christiaan Yu, Renel Cuesta, Eldho Paul, Teanau Roebuck
**PA4088** Night-to-night short-term variability in apnea-hypopnea index: analysis of the associated conditions
Renaud Tamisier (Grenoble, France), Jean-Benoit Martinot, Jean-Louis Pépin, Sébastien Bailly, Nhat-Nam Le-Dong

**PA4089** Drug induced sleep endoscopy in obstructive sleep apnea
IGNACIO JARA (Madrid, Spain), Sara González, Ana Victoria Castillo, Maria Ponte, Winnifer Briceno, Ana Retegui, Diego Durán, Camen Rodriguez, Alberto Carreño, Rafael Barberá, Antonio Pedrera, Lourdes Montes, Andrea Pérez, Aldara García, Irene Cano, Eva Mañas

**PA4090** Evaluation of anxiety and depression in patients with obstructive sleep apnea syndrome
Yosra Braham (Monastir, Tunisia), Imen Touil, Elhem Chaouch, Soumaya Bouchareb, Soumaya Boujneh, Maha Ben Mechilia, Leila Boussofara, Jalel Kneni, Nadia Boudawara

**PA4091** PSG differences in sleepy versus non-sleepy obstructive sleep apnea (OSA) patients
Izolde Bouloukaki (Heraklion (Crete), Greece), Theofilis Vouis, Antonios Velidakis, Violeta Moniaki, Eleni Mavroudi, Giorgos Stathakis, Michail Fanaridis, Sophia Schiza

**PA4092** Obstructive sleep apnoea during rapid-eye movement sleep is predictive for response to treatment in patients with parasomnia
Fatima Saqib (Manchester, United Kingdom), Saad Aleem, Bryn Morris, Andras Bikov

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**PS-7 in poster area**  Session 393  08:00 - 09:30
Poster session: Unravelling the potential of interleukin-5 pathways in asthma

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Chairs:** Asger Sverrild (Valby, Denmark), Zuzana Diamant (Lund, Sweden)

**PA4093** Mepolizumab improves small airway disease in severe eosinophilic asthmatics
Francesca Cefaloni (Rome, Italy), Cristina Boccabella, Luca Richeldi, Matteo Bonini

**PA4094** A retrospective cohort study to determine if Interleukin 5 inhibitors reduce oral corticosteroid burden in Severe Asthma in real life
Zoe Chan (Leeds, United Kingdom), Dinesh Saralaya, Janice Ting

**PA4095** Mepolizumab for the treatment of Eosinophilic Granulomatosis Polyangiitis(EGPA) at Jersey General Hospital: A case review series; clinical features, diagnostic tests and management.
Kesavaperumal Vijayarath (Birmingham, United Kingdom), Duarte Vieira, Karen Hughes, Elisabete Da Silva

**PA4096** Mepolizumab and Benralizumab: new therapeutic perspectives for Severe Eosinophilic Asthma and Eosinophilic Granulomatosis with Polyangiitis
Paola Scarano (Roma, Italy), Cecilia Cisternino, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Alessia Steffanina, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elsa Graziani

**PA4097** Long-term effectiveness of Mepolizumab in patients with refractory severe eosinophilic asthma.
Víctor García García (Sevilla, Spain), BELEN Muñoz Sánchez, Francisco Javier Alvarez Gutiérrez, Juan Francisco Medina Gallardo, Auxiliadora Romero Falcon, Maria Victoria Maestre Sánchez, Ana Gomez Basoro Fernández, Stefan Cimbollek, Julio Delgado Romero, Ana Ruiz Bernal, Marta Ferrer Galvan

**PA4098** Real-world effectiveness and characteristics of Super-Responders to Mepolizumab and Benralizumab in severe eosinophilic asthma and EGPA
Andrea Portacci (Taranto, Italy), Raffaele Campisi, Enrico Buonamico, Santi Nolasco, Corrado Pelaia, Nunzio Crimi, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiffa, Giulia Scioscia, Aikaterini Detoraki, Giuseppe Valenti, Francesco Papia, Alessandra Tomasello, Nicola Scichilone, Girolamo Pelaia, Claudia Crimi, Giovanna Elisiana Carpanagno

**PA4099** Disease remission in severe asthma patients on mepolizumab treatment and its duration after treatment discontinuation.
Piotr Damiński (Lodz, Poland), Piotr Kuna, Maciej Kupczyk

**PA4100** Switching things up: experience of second line anti-interleukin-5 therapy for severe asthma
Fred Fyles (Liverpool, United Kingdom), Amy Nuttall, Hannah Joplin, Laura Watkins, Hassan Burhan

**PA4101** The experience of reslizumab treatment for frequent relapsing chronic eosinophilic pneumonia accompanying asthma: a case series
Seung-Eun Lee (Seoul, Republic of Korea), Won-Jin Lee, Eun-Jeong Son, Tae-Hwa Kim, Doo-Soo Jeon, Yun-Seong Kim
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 Garcia 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), Antonio Caso, Ferdinando Damato, Alessandra Bruno, Lorena Gallotti, Anna Agnese Stanziola

Outcomes of blocking IL-5 in severe asthma elderly patients
David Bahas Conejero (Madrid, Spain), Eva Martinez Moragon

Benralizumab effectiveness in patients with severe asthma regardless of prior biologic use: A real-world Canadian experience
Sheena Kayaniyil (Mississauga, Canada), Parameswaran Nair, Charles St. Pierre, Katherine Osenenko, Tina Li, Karissa Johnston, Gina Lacuesta, Irfan Khan, Syed Anees, Yew Hon Lai, Parisa Rahimi, Vivek Dhawan, Delbert Dorscheid, Andreanne Coté

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 Cändia (Naples, Italy), Francesco Coppa, Maria D'Amato, Debora Paris, Annabella Tramice, Pasquale Ambrosino, Antonio Molino, Antonino Di Stefano, Andrea Motta, Mauro Maniscalco

Asthma outcomes in patients (pts) with severe eosinophilic asthma (SEA), with and without comorbid chronic rhinosinusitis with nasal polyps (NP), treated with benralizumab in the real-world XALOC-1 study
Alicia Padilla Galo (Malaga, Spain), Girolamo Pelaia, Claudia Loureiro, Justin Kwiatek, Tran 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 Galo, Cecilia Cisternino, Paola Scarano, Arianna Sanna, Francesca De Filippis, Alessia Steffanina, Paolo Falange, Elda Graziani

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 RAMSES cohort.

Early effects of anti-IL4R on cognitive functions in patients with severe asthma.
Charlotte Bernhoff (Copenhagen, Denmark), Andreas Elleby Jespersen, Nanna Dyhre-Petersen, Emilie Johanning Bari, Kamilla W Miskowiak, Celeste M Porsbjerg

Dupilumab is effective in real-life severe asthma patients with smoking history
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Robab Breyer-Kohansal, Wolfgang Pohl

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, Pimehanok Patanayindee, Pitchayapa Ruchiwit, Orapan Poachamoon

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 (Pikermi, 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-Wrobleski, Rosirene Paczkowski, Lydia Lee, Phani Veeranki, Mary Johnson, Afisi S Ismaila, Emmeline Igboekwe, Julie Nack, 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 (Pikermi, Greece), Konstantinos Kostikas, Paschalis Steiropoulos, Nikolaos Kareklas, Panagiotis Boglou, Polyantchi Papastasiou

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 Kjargsgaard, Chynnna Huang, Katherine Radford, Nicola Calma, Carmen Venegas, Sarah Svenningsen, Manali Mukherjee, Anurag Bhalla, Huifang Lim, Michael Surette, Susan Waserman, Gerard Cox

Biologic agents licensed for severe asthma: A systematic review and meta-analysis of randomised controlled trials
Dimitrios Petonos (Ioannina, Greece), Chris Kyriakopoulos, Athena Gogali, Georgios Markozannes, Vanesa Bellou, Georgios Nitritos, 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 Scarano, 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, Kaouthar 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 Astrand, David Cohen, Maria Jison, Vivian Shih, Viktoria Werkström, Yuhui Yao, Yajuan Zhang, Wenyiing Zheng, Nan Shan 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 (Tiriolo (CZ), Italy), David J. Jackson, Parameswaran Nair, Benjamin Emmanuel, Trung N. Tran, Andrew Menzies-Gow, Michael Watt, Sheena Kayaniyl, 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 (Liege, Belgium), Marie-Astrid Albert, Natacha Rocks, Najate Ait Mahmoude, Ludivine Petit, Paul Maes

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 effect of different diet styles on mortality in chronic obstructive pulmonary disease

Jiun-Long Wang (Taichung, Taiwan), Yi-Ting Tsai, Chia-Lin Lee

The CCQgraphic: a solution for patients with COPD with adequate or limited health literacy.

Erlijn Tiel Groenestege (Willemstad, Curaçao), Bea Sloothaak, Iris Van Geer, Aimee Van De Maat, Naomi Coenaad, Ellen Van Heijst, Natascha Huijzer-Van Reenen, Kaying Kan, Marjan Kerkhof, Cindy Lentjes, Thys Van Der Molen, Maret Zonneveld, Johannes In ‘t Veen, Janwillem Kocks

CT indices of airway wall thickness in chronic bronchitis, COPD and healthy controls

Huai Chen (Guangzhou, China), Hongjia Meng, Tingting Xia, Xuefei Li, Tianjian Liu, Sarah Lee, Chenjuan Gu, Shuling Hu, Nanshan Zhong, Paul Jones

Dynapenia and sarcopenia are two different phenotypes in patients with COPD: a prospective cohort study

Shih-Yu Chen (Hsinchu, Taiwan), Jung-Yien Chien, Chong-Jen Yu

Anxiety and depression in Chronic Obstructive Pulmonary Disease: a systematic review and meta-analysis

Alina Miah (READING, United Kingdom), Ruihua Hou

Initial findings from two US-based early COPD cohorts: MAP COPD and SOURCE


Al-text mining for the identification of informative COPD subtypes

Florent Baty (St. Gallen, Switzerland), Laura Rechsteiner, Martin Brutsche

Distance covered in the six-minute walk test in COPD patients as a predictor of mortality: A cohort study

Audrey Borthi Silva (São Carlos (SP), Brazil), Izadora Dourado, Cássia Goulart, Aldair Darlan Santos-De-Araújo, Renan Shida Marinho, MURILO OLIVEIRA, Renata Mendes

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’Keeffe, 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 FEV1


Etiotypes of persistent airflow obstruction in the general population in different age bins

Marie Grasl (Wien, Austria), Alvar Agusti, Caspar Schieffers, Owat Sunanta, Marie-Kathrin Breyer, Sylvia Hartl, Robab Breyer-Kohansal

Validation of the Smart Air spirometer and screening for chronic obstructive pulmonary disease

Abir Bouhamdi (Fes, Morocco), Nassiba Bahra, Yassine Chechaou, Rajae Amiali, Btissam Essabahi, Mounia* Serraj, Mohamed Chakib Benjelloun, Karima Elghazi, Bouchra Amara, Mohamed Elbraz

Differences in drinking habits and educational level in men with and without COPD in a Danish rural population

Line Bjørrehave 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, Bulten Kilic

CAT versus mMRC to allocate COPD patients to clinically relevant phenotypes identified using Classification and Regression Trees

Nicolas Roche (Paris, France), El-Hassane Ouallaya, Jean-Louis Paillasseur, Pierre-Régis Burgel

Preserved ratio but impaired spirometry (PRISm): Are these subjects different?

Lancelot Pinto (Montreal, 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 Magn, Melanie Berger, Tim Mathes, Sarah Schwarz, Wolfram Windisch

**Gold**

**Session 396** 08:30 - 10:00

Endoscopy session: Cutting-edge concepts for diagnosis of peripheral lesions: the future is here!

**Aims**: to present a practical demonstration of the novel and rapidly evolving techniques in the diagnosis of peripheral pulmonary opacities; to provide a step-by-step guide for performing the techniques and technologies demonstrated.

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

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

**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)

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<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>08:35</td>
<td>Augmented fluoroscopy</td>
<td>Amir Abramovich (Hasolelim, Israel)</td>
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<tr>
<td>08:50</td>
<td>Cone beam</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
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<td>09:05</td>
<td>Robotic bronchoscopy</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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<tr>
<td>09:20</td>
<td>Bronchoscopic tumour ablation</td>
<td>Kelvin Lau (London, United Kingdom)</td>
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<td>09:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Silver**

**Session 397** 08:30 - 10:00

State of the art session: Paediatric
**Aims**: to discuss important topics in paediatric respiratory medicine such as: 1) treatment options for severe paediatric asthma, 2) an insight into neutrophilic inflammation following preterm birth and other relevant lung diseases, 3) management of persistent obstructive sleep apnoea (OSA) in children and 4) high-flow nasal cannula therapy in paediatric respiratory insufficiency;

**Disease(s)**: Paediatric respiratory diseases, Respiratory infections, Sleep and breathing disorders

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

**Tag(s)**: Clinical

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

**Chairs**: Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

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<tr>
<td>08:30</td>
<td><strong>Therapeutic strategies in paediatric severe asthma</strong></td>
<td>Marielle W.H. Pijnenburg</td>
<td>Rotterdam, Netherlands</td>
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<tr>
<td>08:45</td>
<td><strong>Neutrophilic inflammation throughout the ages</strong></td>
<td>Rory Morty</td>
<td>Heidelberg, Germany</td>
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<tr>
<td>09:00</td>
<td><strong>Management of persistent OSA in children</strong></td>
<td>An Boudewyns</td>
<td>Edegem (Antwerp), Belgium</td>
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<tr>
<td>09:15</td>
<td><strong>High-flow nasal cannula (HFNC) therapy for bronchiolitis and in continuous treatment for respiratory insufficiency</strong></td>
<td>Padmanabhan Ramnarayan</td>
<td>London, United Kingdom</td>
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<tr>
<td>09:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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**Coral 4+5**

**Session 398**

**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)

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<th>Speaker</th>
<th>Location</th>
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<tr>
<td>08:30</td>
<td><strong>Management of pulmonary embolism in pregnancy</strong></td>
<td>Cécile Tromeur</td>
<td>Brest, France</td>
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<tr>
<td>08:45</td>
<td><strong>Distinctive feature of lung cancer-associated thrombosis</strong></td>
<td>Luis Jara-Palomares</td>
<td>Sevilla, Spain</td>
</tr>
<tr>
<td>09:00</td>
<td><strong>Obstructive sleep apnoea and pulmonary embolism: what do we know and what do we need to know?</strong></td>
<td>Alberto Garcia Ortega</td>
<td>Valencia, Spain</td>
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<tr>
<td>09:15</td>
<td><strong>Role of residual pulmonary vascular obstruction in VTE recurrences and CTEPH</strong></td>
<td>Olivier Sanchez</td>
<td>Paris, France</td>
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<tr>
<td>09:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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**Coral 3**

**Session 399**

**08:30 - 10:00**

**Symposium: The organ-wide reach of exercise in chronic respiratory disease**

**A holistic approach**

**Aims**: to explain the role of inter-organ crosstalk and cellular communication in relation to exercise; to describe the beneficial effects of exercise training on skeletal muscle; to explain how to identify persons with chronic respiratory disease (CRD) that need additional support during exercise training to have optimal organ-wide effects; to allow participants to engage in discussion on the controversial idea that exercise can regenerate the lung.

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

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

**Tag(s)**: Translational

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs**: Silke Ryan (Dublin, Ireland), Matteo Bradicich (Zollikerberg, Switzerland), Jana De Brandt (Umeå, Sweden)

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>08:30</td>
<td>Exercise: the role of inter-organ crosstalk and cellular communication</td>
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<tr>
<td>08:45</td>
<td>Effect of exercise training on the muscle in CRD: success guaranteed!</td>
<td>Lorna Latimer (Rugby (Warwickshire), United Kingdom)</td>
</tr>
<tr>
<td>09:00</td>
<td>Helping out the muscle-brain axis during exercise in fibrosing interstitial lung disease: we are on our way!</td>
<td>Mathieu Marillier (Echirolles, France)</td>
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<tr>
<td>09:15</td>
<td>Patient's perspective</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:20</td>
<td>Effect of exercise training on lung regeneration in CRD: an illusion or a future reality?</td>
<td>Ulrik Winning Iepsen (Copenhagen, Denmark)</td>
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<td>09:35</td>
<td>Discussion and Q&amp;A</td>
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**Coral 1**

**Session 400**

**08:30 - 10:00**

**Symposium: Prevention of tuberculosis**

**Aims**: to present the latest evidence on the use of immunodiagnostic methods (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)

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<tr>
<td>08:30</td>
<td>Patient's perspective</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>08:35</td>
<td>How we prevent transmission once the case has been identified</td>
<td>Cécile Magis-Escurra (Nijmegen, Netherlands)</td>
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<tr>
<td>08:50</td>
<td>IGRAs or tuberculosis skin test? How do they compare for identification of individuals at risk of developing tuberculosis?</td>
<td>Francesca Saluzzo (Milano, Italy)</td>
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<tr>
<td>09:05</td>
<td>Effectiveness of tuberculosis preventive therapy by age and Mycobacterium tuberculosis infection status</td>
<td>Ibrahim Abubakar (London, United Kingdom)</td>
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<td>09:20</td>
<td>The global roadmap for a new tuberculosis vaccine</td>
<td>Helen McShane (Oxford (Oxfordshire), United Kingdom)</td>
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<td>09:35</td>
<td>Discussion and Q&amp;A</td>
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**Coral 2  Session 401  08:30 - 10:00**

**Hot topics: Preconception origins of respiratory disease and allergy: what about immunity and infections?**

**Aims:** to provide an overview of the concept of preconception origins of respiratory disease and allergy with a specific focus on immunity and infectious disease; to provide an overview of the current epidemiological evidence and to provide insights into possible mechanisms; to provide an overview of the field and explain how exposures and individual factors may be able to affect respiratory health and allergy in future generations.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Medical Student, Respiratory critical care physician, Paediatrician, Scientist (basic, translational), Journalist

**Chairs:** Rafael E. de la Hoz (New York, United States), Ane Johannessen (Bergen, Norway)

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<tr>
<td>08:30</td>
<td>A general overview of the concept of preconception origins of respiratory disease: what is the epidemiological evidence so far?</td>
<td>Cecilie Svanes (Bergen, Norway)</td>
<td>4181</td>
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<td>08:45</td>
<td>The experimental view of how infections may impact health and disease across generations</td>
<td>William Hornell (Cape Town, South Africa)</td>
<td>4182</td>
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<tr>
<td>09:00</td>
<td>Transgenerational epigenetic impacts of parental infection on offspring health and disease susceptibility</td>
<td>Antony J Hannan (Melbourne, Australia)</td>
<td>4183</td>
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<tr>
<td>09:15</td>
<td>Can COVID-19 and tuberculosis influence epigenetic signalling in a way that can impact immunity of the next generation?</td>
<td>Maria Lerm (Linköping, Sweden)</td>
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<td>09:30</td>
<td>Discussion and Q&amp;A</td>
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**Mini symposium: Complex pleural disease: management in the critically ill patient**

**Aims:** to present most common problems that surgeons, chest physicians, intensivists and even radiologists can face for diagnosis and treatment in the critically ill patients; to emphasize the need of multidisciplinary approach to these patients; to clarify diagnosis and treatment of patients with pneumothorax and patients on mechanical ventilation, patients with pulmonary disease listed for lung transplantation and pneumothorax after a bronchoscopic procedure, surgical procedure or talc pleurodesis (to distinguish ‘true’ pneumothorax from the residual air space); to distinguish free empyema and complex empyema and try to create a protocol for critically ill patients (intrapleural fibrinolytic therapy, dornase alfa, additional drainage tubes, medical thoracoscopy and surgical procedures); to discuss chylothorax after surgical procedures, spontaneous chylothorax, conservative treatments, surgical options and bronchopleural fistulas (fistulas after lung transplantation, fistulas after cancer surgery, conservative treatments, bronchoscopic treatments and surgical options).

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

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

**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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<tr>
<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 403  08:30 - 08:45**

**News from the studio: News from the studio**
**Discussion and Q&A**

*All Speakers*

08:30

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**Studio (White) Session 404 09:10 - 10:00**

Experts interview: Making sense of chronic cough/An update on environmental and occupational exposure in interstitial lung diseases

*Tag(s): Clinical*

**Chairs**:
Arzu Yorgancıoğlu (Konak, Turkey), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

09:10 **Making sense of chronic cough: hypersensitivity, hyper-reactivity or idiopathic patient phenotypes?**

*Lorcan McGarvey (Belfast, United Kingdom)*

09:25 **Discussion and Q&A**

*All Speakers*

09:35 **Environmental and occupational exposure in interstitial lung diseases: an update**

*Francois Huaux (Bruxelles, Belgium)*

09:50 **Discussion and Q&A**

*All Speakers*

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**Red 1+2 Session 405 09:30 - 10:45**

Oral presentation: Unravelling pulmonary fibrosis mechanisms

*Disease(s): Interstitial lung diseases*

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

*Tag(s): Clinical, Translational*

**Chairs**:
Phil Molyneaux (London, United Kingdom), Michael Gerckens (München, Germany)

OA4195 **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, Muhunthan Thillai, Alex West, John Westoby, John M Maher, Jaclyn A Smith*

OA4196 **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, Jacobo Sellares, Rosa Fairer*

OA4197 **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*

OA4198 **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 Deluluis, Naftali Kaminski, Sara Tomassetti, Venerino Poletti*

OA4199 **STING inhibitor ameliorates senescence via inhibiting cGAS-STING pathway in Idiopathic Pulmonary Fibrosis**

*Lorena Rosas (Columbus, United States), Natalia-Del Pilar Vanegas, Madeline Riley, Erica L Dale, Victor Peters, Sean D Stacey, Marc Kaeble, Peter Seither, Ana L Mora, Mauricio Rojas*

OA4200 **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*

OA4201 **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 Cacciator, Sara Lettieri, Silvia Arpicco, Federica Meloni*

OA4202 **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), Jamal Bousamaki, Laura Jul Andersen, Denise Oró, Jonas Damgård Schmidt, Yaohui Nie, Jordan Butts, Manuel Roqueta-Rivera, Henrik Björk Hansen, Michael Feigh*
OA4203  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, Jazmin Calyceca, Victor Peters, Marc Kaestle, Peter Seither, Ana L. Mora, Mauricio Rojas

OA4204  A 3D organoid model mimicking honeycomb cysts in idiopathic pulmonary fibrosis
Petra Khan (Basel, Switzerland), Šárabín Blumer, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark P. Kuehnel, Michael Tamm, Katrin E. Hostettler

OA4205  Discussion and Q&A
All Speakers

Brown 3  Session 406  09:30 - 10:45
Oral presentation: Interactions at the host-environment interface governing the scale and phenotype of airway inflammation
Disease(s): Airway diseases
Method(s): Cell and molecular biology  Pulmonary function testing  Physiology
Tag(s): Basic science, Translational
Chairs: Robert Snellgrove (London, United Kingdom), Chair to be confirmed

OA4206  Late Breaking Abstract - Carnitine palmitoyltransferase IA and its fatty acid oxidation as a protector of airway epithelial barrier
Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li

OA4207  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

OA4209  Epithelial alarmins enhance mast cell-dependent contractions of isolated human small bronchi
Maria Belikova (Stockholm, Sweden), Jesper Säfholm, Mandomh Al-Ameri, Ann-Charlotte Orre, Sven-Erik Dahlén, Mikael Adner

OA4210  Epithelium-derived cystatin SN inhibits HDM protease activity in allergic asthma
Xin Yao (Nanjing (Jiangsu), China), Lei Yao, Ian Adcock

OA4211  Neutrophilic responses in a subacute and chronic mouse model of pollutant-aggravated allergic asthma
Tania Maes (Ghent, Belgium), Joyce De Volder, Annelies Bontinck, Katrien De Grove, Guy Joos, Guy Brusselle

OA4212  Respiratory effects of cold air and diesel exposure in exercise-induced bronchoconstriction in mice
Nora Marain (Leuven, Belgium), Marieke Colemont, Dominique Bullens, Lieven Dupont, Jeroen Vanoirbeek

OA4213  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

OA4214  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 Pearman, Alexander Mathioudakis, Geoffrey Lowman, Shruti Sarda, Altan Topkoglu, Loni Pickle, Michelle Toro

OA4215  Patients on mepolizumab, benralizumab, or dupilumab have diminished post-vaccination antibody and B cell responses to SARS-CoV-2.

OA4216  Discussion and Q&A
All Speakers

Brown 1+2  Session 407  09:30 - 10:45
Oral presentation: Updating pulmonary rehabilitation outcomes and chronic management
### Disease(s) :
- Pulmonary vascular diseases
- Airway diseases
- Respiratory critical care

### Method(s) :
- Pulmonary rehabilitation
- General respiratory patient care
- Physiology
- Public health
- Respiratory intensive care

### Tag(s) :
- Clinical

### Chairs :
Ana Oliveira (Aveiro, Portugal), Chair to be confirmed

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<tr>
<th>Session</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>OA4217</td>
<td>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</td>
<td>Tessa Schneeberger (Schönau am Königsssee, Germany), Inga Jarosch, Daniela Leitl, Rainer Gloeckl, Clancy John Dennis, Andreas Rembert Koczulla</td>
</tr>
<tr>
<td>OA4218</td>
<td>Symptom burden in COPD: a clustering approach</td>
<td>Sarah Houben-Wilke (Horn, Netherlands), Qichen Deng, Daisy Janssen, Frits Franssen, Martijn Spruit</td>
</tr>
<tr>
<td>OA4219</td>
<td>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</td>
<td>Ronaldo Aparecido Da Silva (São Paulo (SP), Brazil), Thiago Fernandes, Rafael Stelmach, Alberto Cukier, Regina Maria Carvalho-Pinto, Celso R. F. Carvalho</td>
</tr>
<tr>
<td>OA4220</td>
<td>Functional capacity testing in patients with pulmonary hypertension (PH) using the one-minute sit-to-stand test (1-min STST)</td>
<td>Christina Kronberger (Vienna, Austria), Roya Mousavi, Begüm Öztürk, Robin Willixhofer, Brigitte Litschauer, Roza Badr Eslam</td>
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<tr>
<td>OA4221</td>
<td>Feasibility of personalised health behaviour coaching to support symptoms and activities of daily living in those with Long COVID-19</td>
<td>Matthew Armstrong (Bournemouth, United Kingdom), Rebecca Owen, Ioannis Vogiazis</td>
</tr>
<tr>
<td>OA4222</td>
<td>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</td>
<td>Adriana C. Lunardi (São Paulo (SP), Brazil), Fabiana Kim, Jaqueline Rocha, Denielli Bos, Eloise Santos, Cibele Marques Da Silva, Alberto Cukier, Celso Carvalho</td>
</tr>
<tr>
<td>OA4223</td>
<td>Inspiratory muscle training, with or without concomitant pulmonary rehabilitation, for COPD: state of the evidence from a Cochrane review</td>
<td>Omar Ammous (Göttingen, Germany), Walid Feki, Tamara Lotfi, Assem M Khamis, Rik Gosselink, Ahmed Rebai, Samy Kammoun</td>
</tr>
<tr>
<td>OA4224</td>
<td>Post-hospitalisation COVID-19 healthcare pathways and 1 year health-related quality of life (HRQoL): effect of clinical assessment and rehabilitation</td>
<td>Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Andrew Ibbetson, Linzy Houchen-Wolloff, Archie Walters, Michael Marks, Andrew Briggs</td>
</tr>
<tr>
<td>OA4225</td>
<td>Minimally important differences based on baseline for clinical outcomes of pulmonary rehabilitation</td>
<td>Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Miriam Groenen, Anouk Vaes, Daisy Janssen, Emiel Wouters, Frits Franssen, Martijn Spruit</td>
</tr>
<tr>
<td>OA4226</td>
<td>Long-term effectiveness of a Pulmonary Telehabilitation in Post-COVID-19 patients.</td>
<td>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 Ceccato, Julian Furtado Silva, Lucieni De Oliveira Conterno, Pedro Maximink Esteves Villar, Lígia Dos Santos Roceto Ratti, Mônica Corso Pereira</td>
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#### Blue 1+2

**Session 408**

09:30 - 10:45

**Oral presentation: Selected tobacco and nicotine research**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Airway diseases</th>
</tr>
</thead>
</table>

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

### Tag(s) :
- Clinical

### Chairs :
Elif Dagli (Istanbul, Turkey), Stamatoula Tsikrika (Athens, Greece)

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<tr>
<th>Session</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>OA4227</td>
<td>Late Breaking Abstract - Alpha-1 Antitrypsin deficiency and risk of cancer: A Nationwide cohort study</td>
<td>Nanna Korsbæk (Køge, Denmark), Eskild Landt, Sarah Marott, Børge Nordestgaard, Morten Dahl</td>
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ERS International Congress 2023

DETAILED PROGRAMME

TUESDAY 12 SEPTEMBER, 2023

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25.07.2023
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 Boztan, Pinar Ay, Murat Ceyhan, Fusun Yildiz, Murat Gurer

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), Natalia Kravchenko, Tetiana Kireieva, Tetiana Pertseva

Acute vascular effects following e-cigarette inhalation

Amelie Brynedal (Umeå, Sweden), Mikael Kabéle, 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, Ovat Sunanta, Sylvia Hartl, Marie-Kathrin Breyer, Caspar Schiffers, 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

All Speakers

**Yellow 1+2+3**

**Session 409** 09:30 - 10:45

**Oral presentation: New basic insights into the mechanisms of acute and chronic lung diseases**

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

**Method(s):** Cell and molecular biology, Imaging, Transplantation

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

**Chairs:** Audrey Joannes (RENNES, France), Olivier Burgy (Dijon, France)

**Late Breaking Abstract - Factor inhibiting HIF (FIH) as a metabolic switch in lung fibroblasts**

Siuyan Wang (southampton, United Kingdom), Liudi Yao, Yilu Zhou, Franco Conforti, Nullin Divecha, Jonathan Swann, Charlie Birts, Donna Davis, Mark Jones, Yihua Wang

**Association between airway MMP-12 and DNA methylation in BAL cells in COPD**

Jonas Eriksson Ström (Umeå, Sweden), Simon Kebede Merid, Robert Linder, Jamshid Pourazar, Anders Blomberg, Anne Lindberg, Annelie F Behndig, Erik Melén

**Fucosyltransferase-2 improves the COPD phenotype through its regulation of E-cadherin**

Venkataramana Siddhaye (Baltimore, United States), Carter Swaby, Shreeti Thapa, Bonnie Yeung-Luk, Sahana Ramaswamy

**Mettl3-mediated m6A modification of FSP1 mRNA induces ferroptosis by diminishing the FSP1 level in COPD**

Yan Wu (Wuxi, China), Yue Yang, Weiyu Shen, Tao Bian

**Blocking CXCR4 improves pulmonary and cardiac outcomes in a mouse model of early COPD**

Isabelle Dupin (Bordeaux, France), Pauline Henrot, Elise Maurat, Reshed Abolahla, Sébastien Chaigne, Dounia El Hamrani, Édmée Eyraud, Renaud Prevèl, Pauline Estèves, Marilyne Campagnac, Marielle Dureuil, Guillaume Cardouat, Clément Bouchet, Olga Ousova, Jean-William Dupuy, Thomas Tram, Matthieu Thumerel, Hugues Bégueret, Pierre-Olivier Girodet, Roger Marthan, Maëva Zysman, Véronique Freund-Michel, Patrick Berger

**Airway dysbiosis disturbs lung clock gene expression in a chronic smoke-exposed murine model**

Wei Xiao, Wei Su, Juan-Juan Fu, Ti-Wei Miao, Bing Miao
OA4245 “Super Survivor” after Lung Transplantation – Protective Role of Macrophages?
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

OA4246 Tissue-specific gene expression of immune-related genes in different COVID-19 severities
Alberto Gómez Carballa (Santiago de Compostela, Spain), Irene Rivero-Calle, Jacobo Pardo-Seco, Jose Gómez-Rial, Ana Dacosta-Urbietra, Xabier Bello, Sara Pischedda, María José Currás-Tuala, Sandra Viz-Lasheras, Federico Martínón-Torres, Antonio Salas

OA4247 Identification of the mesenchymal subpopulation responsible for lung tumorigenesis by using single-cell RNA-seq
Shigeisa Yanagi (Miyazaki, Japan), Hironobu Tsubouchi, Taiga Miyazaki

OA4248 A primary ciliary dyskinesia model of static cilia for research application
Claire L Jackson (Southampton (Hampshire), United Kingdom), Janice Coles, Katie Horton, Regan Doherty, Gemma Fryatt, Jane S Lucas

OA4249 Discussion and Q&A
All Speakers

Gold Session 411 10:15 - 11:45
Endoscopy session: Innovative interventions in pulmonology: freeze, fry or fume?
Aims: to demonstrate the performance of a variety of interventional procedures, including tips and tricks from experts; to explain the details of the new techniques and technologies demonstrated.

Disease(s): Thoracic oncology Airway diseases Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology
Target audience: Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Thoracic surgeon, Respiratory critical care physician

Chairs: Mohammed Munavvar (Preston (Lancashire), United Kingdom), Amanda Dandanell Juul (Odense S, Denmark)

10:15 Introduction
All Speakers

10:20 Rheoplasty and cryo spray
Konstantina Kontogianni (Heidelberg, Germany)

10:35 Endoscopic lung volume reduction
Michela Bezzi (Brescia, Italy)

10:50 Indwelling pleural catheter placement and troubleshooting
Mª Rosa Cordovilla Perez (Salamanca, Spain)

11:05 Cryobiopsy
Sara Tomassetti (Florence, Italy)

11:20 Discussion and Q&A
All Speakers

Silver Session 412 10:15 - 11:45
Clinical cases: Lungs on fire: paediatric respiratory diseases
Aims: to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

Disease(s): Paediatric respiratory diseases
Chairs: Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

Discussants: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), David Drummond (Paris, France)

10:15 Case 1 incl. panel discussion and Q&A - Author: J. N. Eze (Nigeria)
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

10:37 Case 2 incl. panel discussion and Q&A - Author: M. Cameron (Australia)
David Drummond (Paris, France)
**Session 413 10:15 - 11:45**

**Respiratory medicine meets other disciplines: Pulmonary hypertension related to heart and lung disease**

**ERS(ESC joint session**

**Aims:** to define the different physiological and clinical characteristics of pulmonary hypertension (PH) associated with different forms of heart or lung diseases; to explain the up-to-date treatment approach for PH associated with heart or lung disease; to explain the different physiological responses of the right ventricle in different types of PH and its impact on the correct treatment and its efficacy; to describe the up-to-date treatment of PH associated with heart failure, with an emphasis on HFpEF-PH.

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

**Tag(s):** Clinical

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

**Chairs:** Yochai Adir (Haifa, Israel), Pilar Escribano-Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)

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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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<tr>
<td>11:00</td>
<td>Any progress in the management of PH in heart failure?</td>
<td>Jean-Luc Vachier (Bruxelles, Belgium)</td>
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<tr>
<td>11:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Session 414 10:15 - 11:45**

**Hot topics: Precision medicine in obstructive sleep apnoea**

**Aims:** to describe the road map for implementing precision medicine in obstructive sleep apnoea (OSA); to explain that deep phenotyping is a perquisite for precision medicine in OSA; to describe the endotypes or pathophysiological traits allowing to indicate personalised therapy; to perform risk stratification by describing OSA-specific metrics that were designed to capture the hypoxic burden, intensity of respiratory arousal events and cardiac autonomic response to acute events; to explain how to identify continuous positive airflow 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 (Zollikberg, Switzerland), Silke Ryan (Dublin, Ireland), Jana De Brandt (Umeå, Sweden)

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<tr>
<td>10:15</td>
<td>Clinical and sleep phenotypes</td>
<td>Stefania Redolfi (Cagliari, Italy)</td>
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<tr>
<td>10:30</td>
<td>Physiological phenotypes/ endotypes and treatable traits</td>
<td>Danny Eckert (Bedford Park (SA), Australia)</td>
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<tr>
<td>10:45</td>
<td>OSA risk stratification beyond the apnoea-hypopnea index and its relevance to patient-reported outcome measures</td>
<td>Raphael Heinzer (Lausanne, Switzerland)</td>
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<tr>
<td>11:00</td>
<td>Detection of CPAP treatment failures by telemonitoring platforms and proposal of early interventions</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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<tr>
<td>11:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Coral 1
**Session 415 10:15 - 11:45**

**Symposium: UNITE4TB: tuberculosis renewed**

**European Union project**

**Aims:**
- to explain how to use and discuss the methods used to diagnose tuberculosis (TB) and identify resistance;
- to describe the different drugs and regimens being studied for TB treatment;
- to explain the advances and challenges in the development of biomarkers;
- to explain the importance of treatment adherence and the different interventions in use.

**Disease(s):** Respiratory infections

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

**Tag(s):** Clinical

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

**Chairs:** Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)

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<th>Speaker</th>
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<tr>
<td>10:15</td>
<td>Patient's perspective</td>
<td>Speaker to be confirmed</td>
<td>4270</td>
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<td>10:20</td>
<td>New developments in tuberculosis diagnosis</td>
<td>Daniela Maria Cirillo (Milano (MI), Italy)</td>
<td>4271</td>
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<tr>
<td>10:35</td>
<td>Tuberculosis treatment monitoring and outcome measures</td>
<td>Derek Sloan (ST ANDREWS, United Kingdom)</td>
<td>4272</td>
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<tr>
<td>10:50</td>
<td>New drugs, new regimens and new ways to design clinical trials</td>
<td>Christoph Lange (Borstel, Germany)</td>
<td>4273</td>
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<tr>
<td>11:05</td>
<td>Interventions to enhance treatment adherence</td>
<td>Raquel Duarte (Porto, Portugal)</td>
<td>4274</td>
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<tr>
<td>11:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Coral 2
**Session 416 10:15 - 11:45**

**Symposium: Occupational and environmental determinants of common respiratory diseases**

**From Epidemiology to the Clinic and Back**

**Aims:**
- to present updates and interesting and challenging cases underscoring the important (and often missed) role that occupational and environmental exposures play in the aetiology, diagnosis, treatment and prevention of common and well-known chronic respiratory diseases;
- to highlight the influence of early life determinants and diet on the risk of chronic obstructive pulmonary disease (COPD), the added value of association studies based on the exposome concept and the impact of diet in adulthood for prevention of asthma and COPD and improvement of lung health.

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

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

**Tag(s):** Clinical

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

**Chairs:** Rafael E. de la Hoz (New York, United States), Ane Johannessen (Bergen, Norway)

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<tr>
<td>10:15</td>
<td>Updates on occupational COPD: towards an expanded view of causation for better prevention</td>
<td>Sara De Matteis (Cagliari, Italy)</td>
<td>4276</td>
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<tr>
<td>10:30</td>
<td>Diet: an underappreciated but promising approach to COPD prevention</td>
<td>Raphaëlle Varraso (Villejuif, France)</td>
<td>4277</td>
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<tr>
<td>10:45</td>
<td>Impact of work-related risks on diagnostics and treatment of asthma</td>
<td>Irmeli Lindström (Helsinki, Finland)</td>
<td>4278</td>
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<tr>
<td>11:00</td>
<td>Hypersensitivity pneumonitis: multiple exposures and one disease</td>
<td>Martina Koziar Vasakova (Praha 10, Czech Republic)</td>
<td>4279</td>
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<tr>
<td>11:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</table>
## 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

**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>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:15</td>
<td>Patient's perspective</td>
<td>John Solheim (Sætre, Norway)</td>
<td>4281</td>
</tr>
<tr>
<td>10:20</td>
<td>Management of dyspnea in ILD</td>
<td>Yet Hong Khor (Melbourne (VIC), Australia)</td>
<td>4282</td>
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<tr>
<td>10:35</td>
<td>Pathophysiology and treatment of cough in ILD</td>
<td>Zhe Wu (London, United Kingdom)</td>
<td>4283</td>
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<tr>
<td>10:50</td>
<td>Fatigue in ILD: a major problem for patients and physicians</td>
<td>Karen Moor (Rotterdam, Netherlands)</td>
<td>4284</td>
</tr>
<tr>
<td>11:05</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4285</td>
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### INDUSTRY SKILLS LAB WORKSHOP

#### Session 420
**10:30 - 11:30**

**Public:** Coffee and Clean Air - 3

**Studio (White):** Session 421
**10:30 - 11:15**

**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

**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)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Pro: Are β-blockers beneficial in COPD?</td>
<td>Alan Kaplan (Stouffville (ON), Canada)</td>
<td>4289</td>
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<tr>
<td>10:30</td>
<td>Con: Are β-blockers beneficial in COPD?</td>
<td>Daiana Stolz (Freiburg, Germany)</td>
<td>4288</td>
</tr>
<tr>
<td>11:00</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4290</td>
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### Amber 1+2
**Session 422**
**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.
**Introduction**

All Speakers

**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)

**Late Breaking Abstract - Early improvement in asthma small airway dysfunction after one dose of SAR443765, a novel bispecific anti-thymic stromal lymphopoietin/anti-IL-13 nanobody molecule**

Annemie Deiteren (Gent, Belgium), Emmanuel Krupka, Karine Imberdis, Naimish Patel, Heribert Staudinger, Selcuk Bas, Benjamin Suratt

**Autologous transplantation of P63+ lung progenitor cells for chronic obstructive pulmonary disease therapy**

Wei Zhao (Shanghai, China), Yujia Wang, Zili Meng, Ming Lu, 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), Dunen Cunoosamy, Jørgen Vestbo, Dave Singh, Andrew Higham

**A novel senotherapeutic approach for COPD via activating autophagy-lysosome axis**

Sachi Matsubayashi (Tokyo, Japan), Yusuke Hosaka, Saburo Ito, Jun Araya, Yuta Hirano, Shota Fujimoto, Hironori Kawamoto, Naoki Watanabe, Tsukasa Kadota, Yu Fujita, Daisuke Takekoshi, Shunsuke Minagawa, Takanori Numata, Hiromochi 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 Khalekow, Andy Lan, Maarten Van Den Berge, Djoke Van Gosliga, Martijn Nawijn, Judith Vonk, Gerard Koppelman

**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, Naghneh Radhakrishna, Paul Reynolds, Janet Rimmer, Pathmanathan Sivakumar, John Upham, Peter Wark, Ian Yang, Peter Gibson
Effect of in vitro azithromycin treatment on epithelial antiviral immunity in eosinophilic and non-eosinophilic asthma phenotypes
Muzhda Ghanizada (Copenhagen, Denmark), Sofia Malm Tillgren, Nihaya Mahmoud Said, Helle Frost Andreassen, Louise 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
All Speakers

Brown 3 Session 424 11:00 - 12:15
Oral presentation: Physical activity, exercise, and rehabilitation in lung disease

Disease(s) : Airway diseases
Method(s) : Pulmonary rehabilitation, Transplantation, General respiratory patient care
Tag(s) : Clinical
Chairs : Deniz Inal-Ince (Ankara, Turkey), Daniel Langer (Leuven, Belgium)

Late Breaking Abstract - Group-based Tele-Yoga improves exercise capacity, respiratory and cognitive function and quality of life in obstructive sleep apnea syndrome
Naciye Vardar-Yagli (Ankara, Turkey), Filiz Eyuboglu, Deniz Inal-Ince, Berna Karamancioglu, Naciye Vardar-Yagli, Defne Kaya-Ultu, Orhan Dalkilic, Goksel Sonay

A randomized trial of three months physical activity telecoaching in patients post lung transplantation
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuysts, 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 Wuysts, 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 Maria Oliveira (Londrina, Brazil), Ariele Pedroso, Natielly Soares Correia, Denner Ildemar Feitosa Melo, Caroline Sydloski Bidoia, Fabio Pitta, Manuela Karloh, Thiago Sousa Matias, Fabiano Francisco Lima, Marieta Cabral Amaral Da Cunha, Celso R F Carvalho, Karina Couto Furlanetto

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 Aurélia Mendes, André Teixeira, Rodolfo Pinto, Dina Brooks

Is improving physical activity after pulmonary rehabilitation in COPD left to chance?
Joana Antão (Aveiro, Portugal), Patricia Rebelo, Frits Franssen, Martijn Spruit, Alda Marques

Physical Activity coaching in people with COPD: a systematic literature review
Nicola Sante Diciolla (Madrid, Spain), María 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), Marthe Van Overbeke, Lucas Vanden Bossche, Astrid Blondeel, Sofie Breuls, Marieke Wuysts, Lode Claes, Vsys Denutte, Andreas Von Leupoldt, Wim Janssens, Thierry Troosters

Pulmonary telehabilitation vs. Conventional pulmonary rehabilitation – Secondary responder analysis
Henrik Hansen (Dragør, Denmark), Andre Torre, Thomas Kallemose, 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 Olivera

Discussion and Q&A
All Speakers
Oral presentation: Best abstracts in clinical problems

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

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

**Tag(s):** Clinical

**Chairs:** Georgios Kaltsakas (Athens, Greece), Anne Orholm Nielsen (Gentofte, Denmark)

**OA4318**
Late Breaking Abstract - Obstructive sleep apnea and chronic cough: is there really a link?
Laurent Guilleminault (Toulouse Cedex, France), Jérémie Riou, Sandrine Pontier, Kamila Sedkaoui, Frédéric Gagnadoux, Trzepizur Wojciech

**OA4319**
Prevalence of abnormal oscillometry among ambulatory Long COVID patients
Anthony Byrne (Allambie Heights, Australia), Nick Lees, Eili Asgary, Emma Stumbles

**OA4320**
Effect of treatment with tobramycin on the airway microbiota and resistome in bronchiectasis patients chronically colonised with Pseudomonas aeruginosa: iBEST study
Michael M Tunney (Belfast (Belfast), United Kingdom), Gisli G Einarsson, Andrew J Lee, Aya Alkhatab, Jack Carson, Andrew Marshall, Stephen Carson, Deirdre F Gilpin, Gerhild Angyalosi, Vincent Malaterre, James D Chalmers, Michael R Loebingr, Francesco Blasi, Charles S Haworth, J Stuart Elborn

**OA4321**
Effects of saline nebulisation on SARS-CoV2 spreading and exhaled bio-aerosol particles in COVID-19 patients
Francesca BUTTINI (Parma, Italy), Leonardo Gori, Fabio Morecchiato, Andrea Bartolini, Gian Maria Rossolini, Alessandro Bartoloni, Jessica Mencarin, Ruggiero Bettini, Federico Lavorin

**OA4322**
Two-year cohort study after GM-CSF inhalation therapy for autoimmune pulmonary alveolar proteinosis
Koh Nakata (Niigata, Japan), Ryushi Tazawa, Page Research Group, Nobutaka Kitamura

**OA4323**
Correlation between endothelial dysfunction and Left ventricular global strain in patients with COVID-19 (from the TUN ENDCOV Study)
oussama Tabka (Evry courcouronnes, France), Imen Touil, Ibn Haj Amor Hassen, Charfeddine Salma, Kraiem Salma, Tabka Oussama, Hammami Rania, Mahmoud Anis, Torjmen Slim, Knani Jalel, Abdesslem Salem, Abid Leila

**OA4324**
Prevalence and associated factors to post-COVID-19 functional respiratory complaints (FRCs) identified by the Nijmegen questionnaire (NQ)
Thomas Gille (Bobigny, France), Lucile Sesé, Simon Chauveau, Bénédicte Giroux-Leprieur, Aurélie Hervé-Carrega, Morgane Didier, Gary Silvera, Mannelle Mokrani, Yousra Coulibaly, Marcilia Da Silva, Anabel Moreno, Stéphanie Groutteau, Emeline Saïmon, Hilarion Nunes, Yurdagül Uzunhan, Carole Plati

**OA4325**
One year health-outcomes in adults hospitalised with COVID-19 who received systemic corticosteroid treatment: prospective cohort study
Richard Russell (Leicester, United Kingdom), Olivia Leavy, Steven Kerr, Ewen Harrison, Annemarie Docherty, Nazir Lone, Louise Wain, Aziz Sheikh, Chris Brightling, Rachael Evans

**OA4326**
Hyperventilation syndrome (HVS) after COVID 19 pneumonia: what are the predisposing factors?
Hela Cherif (Tunis, Tunisia), Mariem Friha, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaous Yangui, Mohamed Ridha Charfi

**OA4327**
How is lung function affected in children with long-COVID?
Zeynep Reyhan Onay (Istanbul, Turkey), Sinem Can Oksay, Deniz Mavi, Gulay Bilgin, Yetkin Ayhan, Ferit Durankus, Sanjib Ghir

**OA4328**
Discussion and Q&A
All Speakers

Oral presentation: Mechanisms underlying the influence of obesity on respiratory diseases

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

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

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

**Chairs:** Niki Ubags (Epalinges, Switzerland)
Late Breaking Abstract - Perinatal obesity induces premature alveolar aging by AT2 cell depletion via IL-6-driven transcripational 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-Arnendiariz, Baktybek Kojonazarov, Peter Tessarz, Susanne Herold, Norbert Weißmann, Werner Seeger, Jörg Dötsch, Leo Kurian, Björn Schumacher, Miguel A. Alejandre 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 Eliassen, 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 Welsner, Sivagurunathan Sutharsan, Christian Taube, Michael Forsting, Felix Nensa, Rene Hosch, Marcel Optiz

Specific association of extracellular vesicles-derived miRNA-17 and -106a clusters with pathomechanisms of obesity-associated type-2 asthma
Holger Garm (Marburg, Germany), Fahd Alhamdan, Timm Greulich, Christian Daviaud, Leigh M. Marsh, Frauke Pedersen, Clemens Thöllken, Petra I. Pfeiferle, Thomas Bahrner, Daniel P. Potaczek, Jörg Tost

Allergic inflammation modulates the adiponectin/adiponectin receptor 1 axis in lung regulatory T cells in vivo
Patricia Ramos-Ramirez (Glassboro, United States), Carinna 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, Rasihja Tmayakaran, Krishnarajah Nirantarukumar, Shamil Haroon, Prasad Nagakumar, Adel Mansur

Adipocyte-fibroblast bidirectional crosstalk promotes features of fibrosis
Noua Jalaleddine (Beirut, Lebanon), Melissa Gaudet, Qutayba Hamid, Saba Al Healy

Intermittent hypoxia exposure increases adipose insulin resistance and lipolysis in healthy humans: a randomized cross over trial.
Renaud Tamisier (Birmingham, France), Anne Briançon-Marjollet, Marie Netchitaïlo, Fanny Fabre, Elise Belaidi, Claire Arnaud, Anne-Laure Borel, Patrick Levy, Jean-Louis Pépin

Adipokines in cachexia of patients with lung cancer
Lukas Hofmann (Berlin, Germany), Charlotte Frommelt, Malte Ossenberg, Jonas Oberhuber-Kurth, Johanna Pappisch, Teresa Kerkhoff, Nicolas Linder, Harald Busse, Thomas Ebert, Anke Tönjes, Sebastian Krämer, Hartmut Kuhn, Hubert Wirtz, Armin Frille

Discussion and Q&A
All Speakers

Yellow 1+2+3 Session 427 11:00 - 12:15

Oral presentation: Highway one to chronic lung allograft dysfunction

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology
Method(s): Transplantation, Cell and molecular biology, Imaging, Pulmonary function testing
Tag(s): Clinical

Chairs: Michael Perch (Copenhagen, Denmark), Berta Saez Gimenez (Barcelona, Spain)

Late Breaking Abstract - Functional prediction of post-operative lung physiology should really include diffusing capacity.
Sylvia Verbanck (Bruxelles, Belgium), Karolien Vekens, Dirk Smets, Shane Hanon, Eef Vanderhelst

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 Bagnara, 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), H De Loor, Tessa Goeminne, Nilufer Acet Öztürk, Saskia Bos, Pieterjan Kerckhof, Janne Kaes, Vincent Geudens, Emanuela Cortesi, Céline Aelbrecht, Astrid Vermaut, Lynn Willems, Marie Vermant, Timne Goos, Gitte Aerts, Charlotte Hooft, Youssry Mohamady, Xin Jin, Jan Van Slambrouck, Laurens Ceulemans, Laurent Godinas, Maarten Naeens, Bart Vanaudenaerde, Robin Vos

### Prediction of Chronic Lung Allograft Dysfunction by Serum KL-6 Levels
Marta Arjona Peris (Barcelona, Spain), Alberto Mendoza-Valderrey, Victoria Ruiz, Berta Saez-Gimenez, Marta Zapata-Ortega, Manuel Lopez-Meseguer, Maria Deu, Susana Gomez-Olles, Carlos Bravo, Cristina Berastegui

### 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, Yousry Mohamady, Laurent Godinas, Laurens De Sadeleer, John Mdonough, Laurens Ceulemans, Robin Vos, Bart Vanaudenaerde, Yildrim Önder, 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
All Speakers

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### Amber 3+4 Session 428 11:10 - 14:00
Skills workshop: SW14 Thoracic ultrasound basic principles
**Aims**: To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

**Tag(s)**: Clinical

**Chairs**: John Wrightson (Oxford, United Kingdom)

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<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>11:10</td>
<td>Introduction</td>
<td>John Wrightson (Oxford, United Kingdom)</td>
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<tr>
<td>11:40</td>
<td>Normal Thoracic Cavity</td>
<td>Morten Bendixen (Skejby, Denmark)</td>
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<td>11:40</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Giovanni Volpicelli (Torino (TO), Italy), Pia Iben Pietersen (Odense C, Denmark)</td>
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<td>11:40</td>
<td>Case studies</td>
<td>Radhika Banka (Mumbai (Maharashtra), India)</td>
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<tr>
<td>11:40</td>
<td>Guided interventions</td>
<td>Gilles Mangiapan (Creteil, France), Dinesh Addala (Oxford, United Kingdom)</td>
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### Studio (White) Session 429 11:45 - 13:20
Year in review: Scientific year in review
**Aims**: To provide an overview of basic and translational scientific highlights and major achievements in the respiratory field within the past year, focusing on abnormal lung tissue damage and repair; to provide an overview of various key publications that are expected to have a major impact on the respiratory field and with high clinical relevance based on promising results in preclinical models; to cover a variety of pulmonary diseases; to discuss the potential of novel therapeutic strategies to be translated into the clinic.

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

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

**Tag(s)**: Translational

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Paediatrician, Pathologist, Scientist (basic, translational)
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)

Novel insights into the defective alveolar niche in chronic lung disease
Speaker to be confirmed

Discussion and Q&A
All Speakers

Novel proregenerative and antiageing targets for the treatment of fibrotic lung disease
Melanie Konigshoff (Pittsburgh, United States)

Tissue barrier dysfunction as a therapeutic target in pathogen-associated respiratory failure
Wolfgang M. Kübler (Berlin, Germany)

Discussion and Q&A
All Speakers

Comparison of functional status in patients who have post-COVID lung injury or idiopathic pulmonary fibrosis
Deniz Kızılirmak (Manisa, Turkey), Secil Sari, Fatma Can, Yavuz Havlıçu

Can biomarkers predict survival in idiopathic pulmonary fibrosis?
Abdullah Kayıkçı (Eskisehir, Turkey), Fusun Alatas, Huseyin Yıldırım

Characteristics in patients with Progressive Fibrosing Interstitial Lung Disease (PFILD) treated with Nintedanib: data from a specialist centre
Janet Johnston (Manchester, United Kingdom), Lachlan Stranks, Kate Newman, Theresa Garfoot, Laurence Pearmain, Stefan Stanel, Conal Hayton, Colm Leonard, Greaves Melanie, Pilar Rivera-Ortega

COPD assessment test (CAT) in patients with COPD and compensated heart failure
Bohdana Basina (Dnipropetrovsk, Ukraine), Nataliia Sanina, Tetyana Pertseva, Tamara Turlyun

Unexplained or refractory chronic cough and mental health disorders: review of this relationship and response to pregabaline 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, Sammy 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, Zartasht Carmichael, Kyle Cromey
PA4388  Responder rates in patients with acute cough treated with ivy leaves dry extract clearly exceed placebo response  
Ralph Mösges (Köln, Germany), Esther Raskopf, Andreas Völpé

PA4389  A Composite Screening Method to maximise the Detection-Rate of Obstructive Sleep Apnoea in Train Drivers  
Syeda Nafisa (Nottingham, United Kingdom), Lanre Ogunyemi, Tanya Stacey, Milind Sovani

PA4390  Rigorous cardiac assessment helps clarify causes of recurrent admission in patients with COPD  
Joseph Kibbler (Carlton, United Kingdom), Eduwin Pakpahan, David Ripleys, Stephen C Bourke, John Steer

PA4391  Efficacy of Blonanserin Transdermal Patch on Terminal Delirium in Patients with Respiratory Diseases  
Katsutoshi Ando (Meguro, Japan), Ayumi Suzuki, Azumi Motosaku

PA4392  Knowledge of COPD among Adults in Saudi Arabia's Eastern Province: An interim Results  
Jaber S. Alqahtani (Dammam, Saudi Arabia), Areej Hassan Alamri, Roaa Saleh Bajahlun, Afrah Fahad Alanazi, Asalah Ahmed Hakami

PA4393  Factors associated with treatment failure in an adult population of chronic coughers  
Alessia Catalisano (Firenze, Italy), Mariangela Cascio Mariana, Claudia Mannini, Guja Bernacchi, Giovanni Colapietro, Giovanni Fontana, Federico Lavorini

PA4394  Respiratory symptoms (RS) and pulmonary function (PF) in patients (pts) with chronic lymphoproliferative diseases (CLPD)  
Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko

PA4395  Characterisation of progressive fibrosing phenotype (PF-ILD) in patients with hypersensitivity pneumonitis (HSP)  
Ahmed Suleman Haque (Gillingham, United Kingdom), Katherine Brignall, Shanthi Paramothayan, Vijayakumar Ganesh

PA4396  Bronchiolitis obliterans syndrome after hematopoietic stem cell transplantation - single center experience  
Özlem Isik (Ankara, Turkey), Gülthane Cengiz Seval, Serhat Erol, Selami Koçak Toprak, Özlem Özdemir Kumbasar

PA4397  Biologic agents in idiopathic hypereosinophilic syndrome: a case series  

PA4398  Blood biomarkers in patients with Alpha-1 Antitrypsin Deficiency from the EARCO CRC Registry  
Cristina Aljama Vizcarra (Reus, Spain), Alexa Nuñez, Cristina Esquinas, Hanan Tanash, Eva Bartošovská, Gerard Orriols, Georgina Farago, Galo Granados, Miriam Barrecheguren, Marc Miravitlles

**PS-10 in poster area Session 436 12:30 - 14:00**

**Disease(s)**: Airways disease

**Method(s)**: Cell and molecular biology  Imaging  Endoscopy and interventional pulmonology

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

**Chairs**: Susanne Krauss-Etschmann (Borstel, Germany), Patricia Ramos-Ramírez (Glassboro, United States)

**Claudin-3 deficiency attenuated ovalbumin-induced airway hyperresponsiveness and eosinophilic airway inflammation in mice**  
Ayaka Shiota, 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 lysosome**  
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**  
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, Xufei Du, Yan Zhang, Songmin Ying

**Biased signaling of chemokine receptor CCR1 in asthma**  
Zhehua Shao (Hangzhou, China), Qingya Shen, Yingpeng Yao, Songmin Ying, Yan Zhang, Huahao Shen
PA4404 Airway inflammation alters mast cell-related responses in isolated guinea pig intra-lobular bronchi
Jielu Liu (Vallentuna, Sweden), Yujiao Xiang, Mu Nie, Anthony Wong, Jesper Säfholm, Mikael Adner

PA4405 Defining the prostanoid component in mast cell-dependent constriction of isolated human small airways
Jesper Säfholm (Solna, Sweden), Sven-Erik Dahlén, Mikael Adner

PA4406 Biological and biochemical analysis of T cell derived bronchoconstriction
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Koyama, Akemi Ohtomo-Abe, Yuichiro Kawasaki, Maki Iwata, Yuto Nakamura, Yuto Hamada, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Takayuki Ohtomo, Osamu Kaminuma

PA4407 Peripheral innate lymphoid cell and T cell phenotypes are associated with treatable traits in young adults with asthma
Maura Kere (Stockholm, Sweden), Sophia Björkander, Christopher Andrew Tibbitt, Jenny Mjösberg, Erik Melén

PA4408 IgE+ PCs arise in lung draining lymph nodes during HDM exposure, acquire distinct phenotype over time and accumulate in the bone marrow after chornic allergic inflammation
Andrea Vecchione (Tarrytown, United States), Navneet Kaur, Li-Hong Ben, Andrew Murphy, Matthew Sleeman, Andre Limander, Seblewongel Asrat, Jamie Orengo

PA4409 NLRP3 affects airway responsiveness in an OVA and ozone-induced asthma model with neutrophil infiltration through regulation of IL-1β
Yishu Xue (Shanghai, China), Yilin Pan, Lei Zhao, Huijuan Hao, Min Zhang, Wuping Bao

PA4410 Development of OVA induced allergic airway inflammation emerge with gut inflammatory manifestations
Balachandar Selvakumar (Sharjah, United Arab Emirates), Mariam Wed Eladham, Shirin Hafezi, Narjes Sahebsharif-Askari, Ola Salam Bayram, Fatemeh Sahebsharif-Askari, Saleh Ibrahim, Rabih Halwani

PA4411 The role of Gln27Glu polymorphism of the β2-adrenoreceptor gene in asthma development
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa

PA4412 Early-life dysbiosis increases airway hyperresponsiveness in mice
Schmaiel Shirdel (Lübeck, Germany), Jaclyn W. Mcalees, Adrienne N. Wilburn, Yves Laumonnier, Jan Rupp, Simon Graspentüner, Peter König, Ian P. Lewkowich, Inken Schmudde

PA4413 The role of mTOR in Particulate Matter induced steroid-resistant asthma mouse model
Hyun Seung Lee (Seoul, Republic of Korea), Heung-Woo Park, Kyoung-Hee Lee

PA4414 Loss of small airway attachments during ageing in healthy subjects
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Dave Singh

PA4415 Late Breaking Abstract - Effect of inhaled triple therapy on small airway remodeling in patients with moderate to severe COPD accessed by endobronchial optical coherence tomography
Guo Zuyuan (Guangzhou, China), Zhou Ziqing, Li Shiyyue, Zhong Nanshan

PA4416 Profiling of B cell signatures and eosinophils in COPD lung tissues
Julia Mercier (Lund, Sweden), Renan Marrichi Mauch, Premkumar Siddhuraj, Manar Alyamani, Jimmie Jönsson, Caroline Lindö, Caroline Sandén, Hodan Abdshill, Daisy Bornesund, Jonas Sten Ejerfält

PA4417 Profiling of CD4 and CD8 T cells in relation to eosinophil infiltration in COPD lungs
Renan M. Mauch (Lund, Sweden), Julia Mercier, Manar Alyamani, Premkumar Siddhuraj, Jimmie Jönsson, Johan Ahlgren, Caroline Lindö, Caroline Sandén, Daisy Bornesund, Hodan Abdshill, Jonas S. Ejerfält

PA4418 Association of Th1/Th2 phenotype with changes in the frailty status among COVID-19 older survivors
Daniela Catanoe (Mexico City, Mexico), Leslie Chavez-Galan, Ranferi Ocaña-Guzman, Armando Caostra-H-Maldonado, Ivette Buendia-Roldán

PS-11 in poster area Session 437 12:30 - 14:00
Poster session: Chronic cough, bronchitis, and major chronic respiratory diseases

Disease(s) : Airway diseases Thoracic oncology
Method(s) : Public health Epidemiology General respiratory patient care Pulmonary function testing
Tag(s) : Clinical
Chairs : Vanessa Garcia-Larsen (Baltimore, United States), Imran Satia (Hamilton, Canada)

Is refractory chronic cough a genetic disease?

PA4419 Laurent Guilleminault (Toulouse Cedex, France), Pauline Chazelas, Boris Melloni, Corinne Magdelaine, Thomas Villeneuve, Danielle Brouquières, Anne-Sophie Lia, Laurent Magy
A register-based study: Chronic Cough in the adult population in Sweden
Lotta Walz (Linkoping, Sweden), Össur Emilsson, Kristoffer Illergård, Henrik Johansson

Comparison of differences in refractory and unexplained chronic cough patients in Germany: VICHAS study
Christina Jannowitz (Haar, Germany), Peter Kardos, Heinrich Worth, Martin Horack, Ulrich Köhler, Barbara Karmann, Adrian Gillissen

Heterogeneity in reporting respiratory symptoms: a global survey
Alexander Müller (Wien, Austria), Hazim Abozid, Emiel Wouters, Sylvia Hartl, Daisy Janssen, André Amaral

Heritability of cough across two generations: the RHINESSA study
Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ano Johannessen, Christe Janson, Andreas Palm, Karl Franklin, Anna Oudin, Francisco Gomez Real, Mathias Holm, Thorarinng Gislaon, Rain Jogi, Vivi Schlüllnsen, Andrei Malinovschi, Cecile Syanae, Magnus Ekblom

The association between indoor airborne bacteria and allergic respiratory diseases – a Northern European study
Christine Cramer (Aarhus, Denmark), Hesham Amin, Christe Janson, Rain Jogi, Tejs Ehlers Klug, Henrik Albert Kolstad, Dan Norback, Torben Sigsgaard, Tina Sant-Temkiv, Hulda ThorarinssDOTT, Randi Jacobsen Bertelsen, Vivi Schlüllnsen

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

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 Licski, 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 Winna Lindmark (Luleå, Sweden), Caroline Stridsman, Linnea Hedman, Nikolai Stenfors, Tori Myerberg, Anne Lindberg, Eva Rönmark, Helena Backman

Characteristics of severe asthma patients included in the French Palomb Cohort.
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouanolay, Anamg Oizer, 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 Guillemainault, Chantal Raherison-Semjen

Adults with a history of severe childhood asthma compared to the background population: A registry-based study
Osman Savran (Hvidovre, Denmark), Charlotte Suppli Ulrik, Klaus Bonnellyke

Risk factors associated with symptoms of asthma in India
Nishtha Singh (Jaipur (Rajasthan), India), Sheetu Singh, Meenu Singh, Sundeep Salvi, Daya Krishan Mangal, Shally Awasthi, Padukudru Anand Mahesh, Sushil K. Kabra, Sabir Mohammed, Thevaruparambil U. Sukumaran, Alok G. Ghoshal, Monica Barne, Sanjeev Sinha, Sanjay K. Kochar, Udaiveer Singh, Kamlesh Kumar Patel, Arvind Kumar Sharma, Bhushan Girase, Anil Chauhan, Niranjan Sit, Jayaraj B. Siddaiah, Virendra Singh

Prevalence and Epidemiological Characteristics of Incidental Pulmonary Nodules in China: A Prospective Multicenter Trial of 10,560 Cases
Wenhua Liang (Guangzhou, China), Bo Wang, Jian Zhang, Dan Liu, Minhua Peng, Jianxing He, Jianbing Fan, Nanshan Zhong, - On Behalf Of The Nct 03651986 Trial Investigators

Estimation of RSV-attributable hospitalizations and deaths in Spain between 2015–2019
Marina Haekerer (ALCOBENDAS, Spain), Antoni Torres, Robin Bruyndonckx, Aleksandra Polkowska-Kramek, Charles Nuttens, Francesca Lemme, Thao Mai Phuong Tran, Caihua Liang, Cristina Mendez Diaz, Bradford Gessner, Elizabeth Begier
Clinical Characteristics of Non-Malignant Effusions: Results from the ERS International Collaborative Effusion (ICE) Database
Hugh Welch (Bristol, United Kingdom), J Kerkhoff, J Janssen, S Bielsa, C Civit, J Porcel, K Fjaellegaard, J Petersen, U Bodtger, E Grabczak, R Krenke, M Ellayah, D Addala, R Hallifax, J Wrightson, N Rahman, K Jackson, E Pellas, R Bhatnagar, N Maskell

PS-12 in poster area
Session 438 12:30 - 14:00
Poster session: Epidemiology in pulmonary function and sleep-disturbed breathing in children

Disease(s): Sleep and breathing disorders
Method(s): General respiratory patient care, Physiology, Epidemiology, Public health, Pulmonary function testing, Imaging, Cell and molecular biology, Respiratory intensive care
Tag(s): Clinical

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 apnea in children
Refika Hamutcu Ersu (Ottawa, Canada), Henrietta Blinder, Naomi Dussah, Vid Bijelic, Nick Barrowman, Sherri Lynne Katz

Home sleep studies in children with neurodisabilities: any impact on clinical decision making?
Mihaela Diaconu (London, United Kingdom), Andrew Bush, Hui-Leng Tan

Evaluation of sleep disordered breathing in children with allergic rhinitis
Zeynep Reyhan Onay (Istanbul, Turkey), Sinem Toprak, Deniz Mavi, Sinem Can Oksay, Gulay Bilgin, Yasemin Mocan Caglar, Begum Yoruk, Ozge Ulgen, Saniye Girit

Reproducibility of home spirometry in children with neuromuscular disease
miriam 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 Grdosic, Naomi Hemy, Graham Hall, Shannon Simpson

**Investigating the relationship between inflammatory biomarkers and lung function in survivors of very preterm birth**
Denby Evans (Nedlands, Australia), Jake Puglia, Rhea Urs, Tiffany Bradshaw, Naomi Hemy, Elizabeth Smith, Shannon Simpson

**Do childhood cancer survivors have reduced pulmonary function compared to healthy individuals?**
Elisabeth Edvardsen (Oslo, Norway), Mari Bratteteig, Norunn Iren Matthews, Thomas Halvorsen, Ellen Ruud, Trine Stensrud

**Could chronic obstructive pulmonary disease be a pediatric condition?**
Amani SAYHI (tunis, Tunisia), Khansa Derbel, Soumaya Khaldi, Balsam Barkous, Yosra Abdelhedhi, Arwa Yahyaoui, Mariem Abdesslem, Fatma Guezguez, Ines Ghannouchi, Sonia Rouabti

**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 Ietho, Peter Lochoro, Raffaele L. Dellacà

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**Poster session: Non-cystic fibrosis bronchiectasis and other chronic lung infections in children**

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

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

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

**Chairs:** Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

**Is it time to change diagnostic criteria for paediatric bronchiectasis?**
Aisha Mir (Edinburgh, United Kingdom), Kirstin Unger, Alan Quigley, Stefan Unger

**Paediatric non-CF bronchiectasis: a cross-sectional study**
HELEANNE VAN KUIJK (Leicester, United Kingdom), Manisha Ramphul

**International consensus statement on core outcomes for clinical trials in children and adolescents with bronchiectasis – Child-BEAR-net ERS CRC**
Carolina Arez Constant (Lisboa, Portugal), Jeanette Boyd, Andrew Bush, Adam T Hill, Zena Powell, Angela Zacharasiwicz, Efthymia Alexopoulou, Andrew J Collaro, James D Chalmers, Kosten Dauros, Rebecca Fortescue, Matthias Griese, Jonathan Grigg, Andreas Hector, Bulent Karadag, Oleksandr Mazulov, Fabio Midulla, Alexander Möller, Marjike Proesmans, Christine Wilson, Stephanie Y. Yerkovich, Keith Grimwood, Ahmad Kantar, Anne B Chang

**Predictive factors of bad outcomes in pediatric bronchiectasis**
Sabrine Louhaichi (Ariana, Tunisia), Besma Hamdi, Ella Nems, Tarek Cherif, Khouloud Chaibi, Jamel Ammar, Agnès Hamzaoui

**Do distinct etiologies cause clinical differences in non-CF bronchiectasis in children?**
Meltem Akgül erdal (ANKARA, Turkey), Halime Nâyr Büyükşahin, İsmail Güzelkâş, Birce Sunman, Didem Alboğa, Hanife Avci, Nagehan Emiralioglu, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özlü

**Does timing of diagnosis effect outcome in primary ciliary dyskinesia?**
Dvir Gatt (Toronto, Canada), Michelle Shaw, Fiona Kritzinger, Melinda Solomon, Sharon Dell, Felix Ratjen

**Nasal Mucociliary Clearance of 99mTc-albumin colloid: a quantitative test of nasal ciliary function and potential outcome parameter in primary ciliary dyskinesia**
June Kehlet Marthin (Bagsvaerd, Denmark), Kim Gjerum Nielsen, Jann Mortensen

**Use of Immunofluorescence Staining in Primary Ciliary Dyskinesia Diagnosis**
Mine Kalyoncu (Istanbul, Turkey), Rim Hjeij, Müruvvet Yanaz, Ayun Gulev, Merve Selçuk, Şeysda Karabulut, Neval Metin Çalış, Pınar Ergenekon, Ela 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 Poirrier, Marie-Christine Seghaye, Renaud Louis, Philippe Lefebvre, Celine Kempeneers
Genomics of Haemophilus influenzae strains in a paediatric Primary Ciliary Dyskinesia cohort
Klara Schmidthaler (Vienna, Austria), René Gaupmann, Magda Diab-El Schahawi, Birgit Willinger, Zsolt Szépfalusi, Eleonora Dehlink

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, Lyzzeta Garcia Bonila, Andrew Zikic, Shaima Alkhouri, Rawan Aloufazan, Kate Gent, Jackie Chiang

A novel pediatric polycystic lung disease caused by CCR2 deficiency
Bruce Trapnell (Cincinnati, United States), Anna-Lena Neehus, Marija Landekic, Darawan Rinchai, Patricia Panikulam, Quentin Philippot, Tom Le Voyer, Masato Ogishi, Jérémie Rosain, Mana Momenilandi, Carlos Andrés Arango Franco, Marta Martin-Fernandez, Taushif Khan, Jonathan Bohlen, Jeremy Manry, Ji Eun Han, Alexandre Deslys, Tania Gajardo-Carrasco, Camille Soudée, Melanie Migaud, Yoann Seeleuthner, Eirini Nikolouri, Simin Seyedpour, Hugues Begueret, Chantal Brouzes, Pablo Vargas, Nico Lachmann, Raphael Boire, Nico Marr, Dusan Bugonovic, Mohammadreza Modaresi, Larry Nogee, Daniel Craven, Iraj Mohamadzadeh, Nima Rezaei, Mohammad Shahrooei, Stephanie Boisson-Dupuis, Fernando Sepulveda, Vivien Bézat, Nathalie Aladjidi, Laurenz 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 Mussaffi, 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 Baldo, Irene Bruno, Andrea Magnolato, Egidio Barbi, Massimo Maschio

Late Breaking Abstract - Management of RRTIs in children with the Trained Immunity-based Vaccine MV130: A retrospective study
Laura Conejero Hall (Madrid, Spain), Karla Montalbán, Ana Cogollo, Patricia Girón De Velasco, Raquel Caballero, Miguel Casanovas, José Luis Subiza

Late Breaking Abstract - Bronchiolitis epidemiology and clinical features: a retrospective analysis
Luigi Matera (Rome, Italy), Raffaella Nenna, Enea Bonci, Antonella Frassanito, Laura Petrarca, Maria Giulia Conti, Greta Di Mattia, Enrica Mancino, Chiara Moriano, Fabio Midulla

Central versus peripheral adaptations after lung transplantation in patients with end-stage chronic obstructive pulmonary disease
Jacob Peter Hartmann (København V, Denmark), Camilla Koch Ryrso, Thomas Kromann Lund, Michael Perch, Pia Thanning, 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 Martín Nuñez Silveira, Emilio Steinberg, Julieta Gonzalez Anaya, Indalecio Carboni Bisso, Graciela Svetliza, Maria Laura Orazi, Enrique Beveraggi, Marcos Las Heras, Gabriel Elias Vega

The association between neutrophil-lymphocyte ratio and short-term survival after lung transplantation.

Hyeon Kyeong Bae (seoul, Republic of Korea), Eun Young Kim, A La Woo, Moo Suk Park, Ha Eun Kim, Jin Gu Lee, Su Hwan Lee

MI-Edon study: the role of respiratory physiotherapy as a tool for the optimization of the lung donor.

Gonzalo Ballesteros Reviriego (Algeciras, Spain), Irene Bello Rodríguez, Eduardo Miñambres, Jose Maria Mancinno, Bernat Planas Pascual, Joan Daniel Martí, Angela Suarez, Joan Márcoval, Ano Gómez Brey, Christopher Mazo, Maria Deu, David Paredes, Gerard Sanchez, Marc Boada, Alba Gómez Garrido, Belén Garcés, Meritxell Peñalver, Adriana Martín, Andrea Pérez, Alberto Sandiunmegue Camps

Survival of idiopathic pulmonary fibrosis patients treated with antifibrotics versus lung transplantation


Peripheral airway monitoring in lung transplant recipients using IOS and MBW

Madeleine Driskel (Manchester, United Kingdom), John Blaikley, Karthik Santhanakrishnan, Catherine Fullwood, Rajamiyer Venkateswaran, Alex Horsley

Nezulcitinib (TD-0903), an inhaled JAK inhibitor reduces ConA-induced lung inflammation and lung injury in mice

Elad Kaufman (South San Francisco, United States), Reuben Sana, Joseph Chen, Matthew Frates, Ilaria Badagnani, Glenmar Obenedico, David Bourdet, 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 Correa, Francine Almeida, Priscila Carvalho, Maria Guido, Paulo Pego-Fernandes, Raul Maranhao, 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 Ceils, Iris Coosemans, 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

Functional pattern of baseline lung allograft dysfunction after lung transplantation.

Martin Bon (Cenon, France), Guillaume Verdy, Claire Bon, Elodie Blanchard, Julie Macey, Hadrien Golhen, Clement Boisselier, Benjamin Repusseau, Régis Seramondi, Patrick Reynier, Eline Bonnardel, Christelle Pellerin, Jerome Ridolfo, Eloise Gillo, Pierre Khan, Hadrien Roze, Arnaud Rodriguez, Yaniss Belaroussi, Benjamint Chevalier, Frederic Delambre, Matthieu Thumerel, Jacques Jougon, Xavier Demant

Donor-derived cell-free DNA levels in combined heart-lung transplant recipients using a novel PCR-based assay.

Owais Tisekar (Bangalore, India), Md Moiz Lalani, Vijil Rahulan, Samuel Devi, Manjunath N, Menander M, Manish Sharma, Prabhut Dutta, Sandeep Attawar

Longitudinal monitoring of LCI in spirometrically stable lung transplant recipients

Madeleine Driskel (Manchester, United Kingdom), John Blaikley, Karthik Santhanakrishnan, Catherine Fullwood, Rajamiyer Venkateswaran, Alex Horsley

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

Perspectives of an uncontrolled donation after circulatory death lung transplantation program

Alessandro Palleschi (Milano (MI), Italy), Valeria Musso, Alberto Zanella, Letizia Corinna Morlacchi, Valeria Rossetti, Marco Sacchi, Elena Benazzi, Tullia De Feo, Giuseppe Piccolo, Mario Nosotti

Machine-learning based BAL cytology of lung transplant patients

Michael Gerckens (München, Germany), Carlo Muemmeler, Johannes Strodel, Gerald Burgstaller, Jürgen Behr, Nikolaus Kneidinger
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 Damaro, Mario Nosotti, Roberto Ercole Moroni Grandini, Francesco Blasi

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 Fihn-Wikander, Rod Hughes, Jim Wild

Effects of adopting GLI reference equations on lung volumes interpretation
Danny Brazzale (Macleod, Australia), Warren Ruehland, 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 Baunme

Nebuliser characterisation with saline results in inaccurate methacholine PD20 values.
James Dean (Holmes Chapel, United Kingdom), Dave Singh

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 (Daegjeon, 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
Jason Burge (Wolverhampton, United Kingdom), Joanna Shakespeare, Sarah Shuker, David G. Parr

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 (Ljipnden, 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 Baumle, 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, Yuanning Luo

Investigation of Respiratory Physiopathology by Determination of Pulmonary Gas Exchange and Ventilation Dynamics in Chronic Lung Diseases
Necmiye Funda Coşkun (Bursa, Turkey), Fadıl Özyener, Aslı Görek Dilektaşlı, Dane Ediger

Poster session: Novelties in respiratory physiotherapy for health and COVID-19

Session 442
12:30 - 14:00
PS-16 in poster area

Disease(s) : Airway diseases  Respiratory critical care  Interstitial lung diseases
Method(s) : General respiratory patient care  Pulmonary function testing  Pulmonary rehabilitation  Respiratory intensive care  Public health  Epidemiology
Tag(s) : Clinical

Chairs : Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Maria Kouloupoulou (London, United Kingdom)

PS-16 in poster area

Reliability of kinetics-on and kinetic-off oxygen uptake during six-minute step test in male
Cássia Goulart (São Carlos, Brazil), MURILO OLIVEIRA, Shida Marinho, Aldair Araújo, Izadora Dourado, Meliza Rosciani, Renata Mendes, Audrey Borghi-Silva

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

Reference values for maximal respiratory pressures in Spanish population: a multicentre study
Ana Lista Paz (A Coruña, Spain), Margarita Barral Fernández, Luz González Doniz, Sonia Souto-Camba, Alejandro Quintela Del Rio, Daniel Langer, Ana B Varas De La Fuente, Cristina Serrano Veguillas, Ane Arbillaaga-Excarri, Elena Gimeno-Santos, Jordi Vilaró, Rodrigo Torres-Castro, Pilar Bravo Cortés, Esther García Delgado, Concepción Martín Cortijo, Marina Francín-Gallego, Beatriz Herrero-Cortina, Yolanda Sanesteban Hermita, Esther Giménez Moolhuysen, Rocio Martín-Valero, Jorge Álvarez Rivas, José Luis Valera Felices, Carolina González Montañez, Antonio Tomás Rios-Cortés, Guilherme Fregonezi

Clinical definition of respiratory muscle weakness based on reference values for maximal respiratory pressures
Ana Lista Paz (A Coruña, Spain), Daniel Langer, Margarita Barral Fernández, Luz González Doniz, Sonia Souto-Camba, Alejandro Quintela Del Rio, Elena Gimeno-Santos, Ane Arbillaaga-Excarri, Beatriz Herrero-Cortina, Rodrigo Torres-Castro, Jordi Vilaró, Pilar Bravo Cortés, Ana B Varas De La Fuente, Cristina Serrano Veguillas, Concepción Martín Cortijo, Esther García Delgado, Carolina González Montañez, Yolanda Sanesteban Hermita, Esther Giménez Moolhuysen, José Luis Valera Felices, Rocio Martín-Valero, Marina Francín-Gallego, Jorge Álvarez Rivas, Antonio Tomás Rios-Cortés, Guilherme Fregonezi

Virtual Reality Rehabilitation for Improving Exercise Performance and Mental Well-being in Post-Acute Sequelae of COVID-19 Patients
Sebastian Rutkowski (Opole, Poland), 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 Sepúlveda-Loyola, Josiane M Felcar, Carrie C R Galvan, Vanessa S. Probst

Effectiveness of Post-COVID rehabilitation and impact of frailty in Post-COVID Syndrome
Kola Akinlabi (London, United Kingdom), Binny Patel, Ana-Maria Barfa, Patrick Mallia, Radoslav Trojan, Gavin Sandercocck

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-García, 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 Espenhaug, Kiri Lovise Njøten, Eirik Søfteland, Bernt Bøgvald Aarli, Gerd Kvale

Association of dyspnea and physical activity level in adult patients with CF during COVID-19
Aydan Aslı Aksel Uylar (Ankara, Turkey), Naciye Vardar-Yاغلي, Merve Firat, Melda Şaglam, Ebru Calık-Kutukcu, Ebru Damadoglu
Factors affecting participation of long COVID-19 patients in pulmonary rehabilitation programmes
Christiana Lekka (Athens, Greece), Nikolaos Chynkiamis, Angelos Vontetsianos, Christina Anagnostopoulou, Stavrina Zaneli, Zoi Sotiropoulou, Georgios Kaltsakas, Andriana Papaoannou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Respiratory, mental and physical aspects in people following COVID-19 infection: a six-month follow-up
Karina Marcela Morro Pozo (Presidente Prudente, Brazil), Isis Grigoletto, Paloma Borges, Matheus Pedroso, Elaine Maldonado Bertacco, Thamirys Serafim, Vinicius Cavalheri, Rafael Mesquita, Ercy Mara Cipulo Ramos

Effectiveness of physical activity counseling in patients with COVID-19
Zeliha Celik (Ankara, Turkey), Nihan Kafa, Nevin A. Guzel, Nurdan Kokturk

Functional recovery over 1 year after hospitalization for COVID-19: results from waves 1 and 2 of the pandemic
Marla Beauchamp (Hamilton, Canada), Renata Kirkwood, Andrew Costa, Mylinh Duong, Terence Ho, Rebecca Kruisselbrink, Aaron Jones, Parminder Raina

Is the endothelial dysfunction in patients with exacerbation of COPD and COVID-19 comparable?
Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Naíara Tais Leonardi, Alessandro Domingos Heubel, Erika Zavaglia Kabbach, Nathany Souza Schaufauer, Débora Mayumi Kawakami, Stephanie Nogueira Linares, Ariane Viana, Vanessa Teixeira Do Amaral, Gustavo Yudi Orikassa De Oliveira, Audrey Borghi-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 Martin 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 Volekaerts (Edegem, Belgium), Kirsten Quadflieg, Chris Burtin, Kevin De Soomer, Ella Oostveen, Ella Roelant, Iris Verhaegen, Michiel Thomeer, Maarten Criel, David Rutten, Thérèse S. Lapperre, Dirk Vissers

Cardiac Hemodynamics and Functional Capacity After Covid-19: Case Series
Larissa Nascimento (Natal, Brazil), Emily 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 Yaglı, Melda Saglam, Deniz Inal Ince, Lale Özisik, Nursel Calik Basaran, Gulay Sain Guven

Effect of tuberculosis preventive treatment on household contacts of rifampin-resistant tuberculosis patients: A nationwide investigation
Kang-Mo Gu (Seoul, Republic of Korea), Sun-Young Jung, Jae-Eun Lee, Joo-Hyeon Eom, Kyungun Lee, Yong-Joon Park, Yunhyung Kwon, 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 García 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

Poster session: What is new in treatment of drug-susceptible tuberculosis, drug-resistant tuberculosis and tuberculosis infection?

Effect of tuberculosis preventive treatment on household contacts of rifampin-resistant tuberculosis patients: A nationwide investigation
Kang-Mo Gu (Seoul, Republic of Korea), Sun-Young Jung, Jae-Eun Lee, Joo-Hyeon Eom, Kyungun Lee, Yong-Joon Park, Yunhyung Kwon, Youmi Kim, Jae Chol Choi

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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
Characterization of tuberculosis drug resistance patterns in the early days of XDR-TB
André Filipe Santos Nunes (Ponta Delgada, Portugal), Sofia Fontão Alves, Luís Mateus, Maria Cavaco, Ricardo Cordeiro, Carina Rolo Silvestre, Joana Ferra, Daniel Duarte, Carla Cardoso, Aurora Bragança, Paula Raimundo, Natália André, António Domingos, Teresa Falcão

Side effects of 2nd line anti-tuberculous drugs: impact on compliance and therapeutic efficacy
Soumaya Ben Saad (Ariana, Tunisia), Issraa EL WHADHANE, Amani Ben Mansour, Azza Slim, Hafaoua Dagfhous, Fatma Tritar

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), Jalloulou Nour Lahbib, Slim Azza, Ben Saad Soumaya, Dagfhous Hafaoua, Fatma Tritar

Study of Moxifloxacin and Silver Nanoparticle Composite Efficacy on pre-XDR Mycobacterium Tuberculosis Strains
Teona Avaliani (Tbilisi, Georgia), Nino Kiria, Giorgi Phichkhaia, Nino Bablishvili, Nana Kiria

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 O'ttewill (Dublin 4, Ireland), Tobias Maharaj, Maria Kane, Lorraine Dolan, Joseph Keane, Anne Marie Melaughlin

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 Matviienko, Olena Rekalova, Viktoria Zhadan, Oksana Panasiukova, 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, Olekss Solodiankin

Dexamethasone Reduces Metabolic Function and Subsequent Activation of Human Macrophages to Mycobacterium Tuberculosis.
Lorraine Thong (Co. Cork, Ireland), Donal Cox, Joseph Keane

Does pre-existing respiratory disease affect 3-month outcome following severe COVID: a matched prospective cohort across 4 waves
Olivia Vandekerckhove (Sint-Pieters-Rode, Belgium), Eveline Claeys, Nele Steyaert, Walter De Wever, Wim Janssens, Lieven Dupont, Pascal Van Bleyenbergh, Greet Hermans, Natalie Lorent
PA4556  Risk factors for secondary organizing pneumonia in patients with COVID-19 pneumonia
Alisa Aikwanich (Pathum-Thani, Thailand), Dararat Eksombatchai, Tananchai Petnak, Tanapat Tassaneyasin, Viboon Boomsangsuks

PA4557  Long-term outcomes of COVID-19 patients admitted to a tertiary care hospital in Peshawar, Pakistan.
Muhammad Imran (Peshawar, Pakistan), Azhar Uddin, Zafar Iqbal, Yousaf Ali, Abdul Jalil Khan

PA4558  12-Month follow-up study of patients after hospitalization for COVID-19
Ivan Rosas (Houston, United States), James A. McKinnell, Reena Shah, Michael Waters, Bradley Hunter, Robert Jeanfreau, Alejandro Benitez, Larry Tsai, Margaret Neighbors, Ben Trzaskoma, Rita De Cassia Castro, Fang Cai

PA4559  Applying machine learning algorithms to predict outcomes in hospitalised COVID-19 patients
Ahmed Dhia El Euch (Sfax, Tunisia), Soumaya Triki, Nour Kallel, Rahma Gargouri, Nesrin Kallel, Walid Feki, Imed Gargouri, Samy Kammoun

PA4560  A close respiratory follow-up after acute COVID-19 – is it necessary?
Amir Bar-Shai (Tel-Aviv, Israel), Ophir Freund, Anna Breslavsky, Rotem Givoli-Vilensky, Evgeni Gershman, Avraham Unterman, Nadav Zacks, Ori Wand, Natalya Bilenko

PA4561  Persistent symptoms, lung function and imaging abnormalities at 1-year follow-up for severe COVID-19
Arturo Cortes-Telles (Merida (Yucatan), Mexico), Luis Alberto Solís-Diaz, Heideger Norberto Mateos-Toledo, Esperanza Figueroa-Hurtado, Diana Lizbeth Ortiz Farias, Yuri Noemi Pou-Aguilar, Saul Vazquez-Lopez

PA4562  Association between pre-hospital inhaled corticosteroid use and COVID-19 outcomes
Marija Vukoja (Sremska Kamenica, Republic of Serbia), Aysun Tekin, Nereida Parada, Javalughn Gray, Alan Mallouhi, Tiana Roddy, Amos Lal, Yuhanhao Zu, Joshua Chung

PA4563  Pulmonary lung function and blood gas analysis in patients after severe Covid-19 pneumonia
Plamena Stoimenova (Plovdiv, Bulgaria), Stolika Mandadzhieva, Blagoi Marinov

PA4564  Secondary infectious complications of the airways in patients with post-COVID-19 syndrome
Galya Gumeniuk (Kyiv, Ukraine), Yuriy Feshchenko, Mykola Gumeniuk, Viktoria Ignatieva, Maryna Polianska, Svitlana Opiakh, Mykola Lynnyk, Svitlana Moskalenko, Nataliia Vasova, Dmytro Butov

PA4565  Tabacco smoking and post COVID syndrome
Mariem Friha (Ariana, Tunisia), Hajer Racil, Mariem Chabane, Sarra Maazaoui, Ameny Touil, Sonia Habibech, Nawel Chaouch

PA4566  Co-infection and secondary infection in critically ill Omicron variant COVID-19 patients in a university hospital
Yi-Ting Chen

PA4567  Functional and radiological correlation of ICU survivors with severe COVID-19 at 1 year follow up from the OUTSTIRP COVID-19 prospective cohort study
Merlin Thomas (Doha, Qatar), Mousa Hussein, Mansoor Hameed, Jaweria Akram, Rajalekshmi Nair, Rajendra Kumar, Amal Rashid, Aisha Aladab, Saibabu George, Mushtaq Ahmad, Maysa Abdelhafeez, Aaala Kambal, Tasleem Raza

PA4568  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

PA4569  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 Fekhi, Mohamed Lamine Megdiche

PA4570  Forty step desaturation test does not have prognostic value in COVID-19 due to omicron variant
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Devasahayam J Christopher, Barney Isaac, Rajasekar Sekar, Rathijit Pal, Hema Paul, Mathew Varghese, Abhilash Paul Prabhakar

PA4571  Identification of long COVID phenotypes based on clinical presentation at 3 to 6 months post SARS-CoV-2 infection: results from the P4O2 consortium
**Long covid symptoms in hospitalized and non-hospitalized patients**

CHRISTOFOROS PROIMOS (Greece), GEORGIA CHASAPIDOU, Eleni Eleftheriadou, Maria Konstandinidou, Dionisia Samara, Dimitra Daisou, Mei Gramenou, Efi Kamariotou, Panagiota Georganakis, Eleana Giovani, Valentina Peggidou, Petros Ekoutisidis, Letiferis Doulgerakis, Diamantis Chiloris

**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 Bampressou, Eftichia Polidora, Rafaela Siampani, Ioannis Kaolomenidis

**Fatigue in post COVID-19 patients: the P4O2 COVID-19 study**


**Association between mRNA vaccination and COVID-19 hospitalization and disease severity**

Adamadia Liapikou (Athens, Greece), Alexandra Kote, Aggeliki Sotiropoulou, Panagiota Peristeris, Ioanna Augerinou, Ioannis Dimitropoulis, Stella Kourlela

**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-Parr, Gustavo Bonnabel-Becerra

**Comparative Analysis of COVID-19 Vaccination Coverage in the Hungarian Population and COPD Patients.**

Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Alpar Horvath, Balazs Santa, Gabor Tomisa, Gergo Szollosi, Zoltan Ungvari

**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 Juvakar, 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 Improtazione, Giuseppe Fiorentino

**Immunosuppressed COVID-19 patients: experience from a tertiary Chest hospital in Athens, Greece**

Iris-Theodora Viarchantoni (Athens, Greece), Anastasia Levounets, Romina Chatzipetrou, Andrea Kyriami, Eirini Skontzou, Lamprini Vlassi, Chrysa Kontogiani, Konstantinos Samitas, Zafeiris Sardelis, Evangelos Markozannes, Theoplasti Grigoratou, Eleftherios Zervas, Lykourgos Kolilekas

**Investigation of antibody levels during three doses of Sinopharm/BBIBP vaccine inoculation**

Baoqing Sun (Guangzhou (Guangdong), China)

**Sequelae after severe Covid-19 infection at 6 months of follow-up according to previous vaccination status.**

Laura Alcarraz Vázquez (Zaragoza (Zaragoza), Spain), Iván D. Benitez, Maria Aguílal, Sally Santistevé, Aida Monge, Clara Gort-Piñ嵇, David Gonzalo-Cafio, 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 Adhihari, Diane Griffiths, Emma Bruce, Jennifer Han, Rona Smith, Davinder Dosanjh
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<td>Influence of vaccination status on the course of hospitalization in elderly COVID-19 patients: Single center experience of a tertiary COVID-19-hospital.</td>
<td>Markus Hofer (Zürich, Switzerland), Wyss Seraina, Reutemann Luzia, Bansal Vineeta</td>
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<td>PA4586</td>
<td>Nodal analysis determined nasal mucosal-associated mediators were associated with accelerated clinical recovery from SARS-CoV-2 infection</td>
<td>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</td>
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<td>Comparison Of serum Anti-Spike (S) IgG Covid-19 Antibody between Breakthrough Infection And recent COVID-19 Infections in unvaccinated</td>
<td>Sajal De (Raipur, India), Dibakar Sahu, Diksha Mahilang, Anudita Bhargava</td>
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<td>PA4588</td>
<td>Differences in immunological profiles between vaccinated and recovered COVID-19 patients.</td>
<td>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</td>
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<td>PA4589</td>
<td>Variable outcomes from infection by different SARS-CoV-2 variants among vaccinated maintenance hemodialysis patients</td>
<td>Ori Wand (Kfar Sava, Israel), Idan Drori, Yael Einbinder, Naomi Nacach, Sydney Benchetrit, Anna Breslavsky, Keren Cohen-Hagai</td>
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<td>PA4590</td>
<td>Successful Use of Monoclonal and Antiviral Therapy in Immunocompromised Patients With Persistent and/or Relapsing COVID-19</td>
<td>Leonardo Gori (Florence, Italy), Michele Spinicci, Lucia Graziani, Paola Parronchi, Alessandro Bartoloni, Diletta Cozzi, Edoardo Caviglì, Giannaros Rossolini, Elisabetta Rosi, Federico Lavorini, Valentina Luzzi, Leonardo Giuntoli, Camilla Comin, Luca Ciani, Sara Tomassetti</td>
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<td>PA4591</td>
<td>The role of immunosuppressive therapy in post-COVID-19 interstitial lung disease</td>
<td>Sule Gül, Barıs Demirkol, Ramazan Eren, Kursad Nuri Baydili, Burcu Babaoglu Elkhatroushi, Şerife Nur Ulusan, Mustafa Çörtük, Erdoğan Çetinkaya</td>
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<td>PA4592</td>
<td>Severe COVID19 pneumonia management in patients receiving Rituximab in a pragmatic clinical setting.</td>
<td>Elli Keramida (Athens, Greece), Georgia Hardavella, Maria Salomidou, Irma Bracka, Thodoris Daskalos, Antonia Zachariou, Eleni Bellou, Fotis Kyriakou, Ioannis Karampini, Panagiotes Demertzis, Despoina Zorpidou</td>
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<td>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</td>
<td>Wang Chun Kwok (Hong Kong, Hong Kong), Man Hung Tsoi, Sze Him Isaac Leung, Ching Ki Tsui, Terence Chi Chun Tam, James Chung Man Ho, David Chi Leung Lam, Mary Say Man Ip, Pak Leung Ho</td>
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**PS-2 in poster area**

**Session 446**

**Poster session: Asthma diagnosis and management in primary care**

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

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<td>PA4595</td>
<td>Prevalence of asthma and allergies among children in the United Arab Emirates: A crosssectional study</td>
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<td>Subhabrata Moitra (Edmonton, Canada), Andrew Fong, Alim Hirji, Mohit Bhutani</td>
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<td>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)</td>
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Asynchronous digital health interventions (aDHI) for reviewing asthma: a mixed-methods systematic review
Næzim 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 Thayakaran, Adel Mansur, Krishnarajah Nirantharakumar, 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 Katsaouou

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 sinonasal surgery (FESS) in US real-world practice
Juby Anne Jacob-Nara (Hillsborough, United States), Asif H. Khan, Danielle Isaman, Stella Lee, Anju Peters, Peter Hwang, Sietze Reitsma, Natalia Petruski-Ivleva, Scott Nash, Juby Jacob-Nara

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 Seullion, José Miguel Padhila, Tonya Winders, Andrea Sañič, 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
Rosaura Esperanza Benitez Pérez (México, Mexico), Angélica Margarita Portillo-Vasquez, Robert Camargo-Ángeles, Diana Ruiz-Ascencio, Adela Reyes-Herrera, Fatima Leticia Luna-Lopez, Ruy Lopez-Ridaur, Laura Graciela Gochicoa-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

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 Fadvard, Yannick Simonneau, Matthieu Dusselier, Valentin Héluaun, Gavin Plat, Thomas Egenod, Nicolas Guibert
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The impact of emphysema heterogeneity on treatment response after endobronchial valve treatment
Sharyn A. Roodenburg (Groningen, Netherlands), Karin Klooster, Dirk-Jan Slebos, Jorine E. Hartman

Insights in biofilm infections on endobronchial valves in COPD patients after endoscopic lung volume reduction
Eva Pappe (Berlin, Germany), Ralf-Harto Hübner, Laura Kurawie, Kurosh Sarbandi, Jacopo Saccamanno, Martin Wittenrenath, Alexandra Wiessner, Annette Moter, Judith Kikhnne

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Julia Rubenstein (Talence, France), Ilyes Benlala, Anne-Claire Toublanc, Marina Guecamburu, 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 intrabranchial valves for endoscopic therapy of advanced emphysema
Konstantina Kontogianni (Heidelberg, Germany), Ann-Sophie Unterschemm, Franziska Trudzinski, Judith Brock, Daniela Gompelmann, Felix Jf Herth, Ralf Eberhard

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 Eberhardt, Claus Peter Heussel, Felix Herth

PERSISTENT AIRLEAK TREATED WITH ENDOBRONCHIAL VALVES, A TERTIARY HOSPITAL EXPERIENCE.
Cristina Sánchez Fernández (Oropesa, Spain), Katiuska Herminia Liendo Martínez, Christian Reynaldo García López, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestu

ROLE OF CRYOBIOPSY IN THE INTERSTITIAL LUNG DISEASE DIAGNOSTIC ALGORITHM
Alejandro Goiffe Bonmati (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 (Heidelberg, 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 Zehetmayr, 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 Ng, Rong Li Huo, 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

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Hazel Morrison (Bridgewater (Somerset), United Kingdom), Susan Jackson, Julia Marshall, Celia Mitton, Raquel Lopez Ramon, Timothy Fredsgaard-Jones, Andrew Mawer, Clare Wilkins, Henry Bettinson, Timothy Hinks, Helen Meshane

Shape Sensing Robotic-Assisted Bronchoscopy for Diagnosis of Ground-Glass and Subsolid Pulmonary Nodules
David Abia-Trujillo (St Johns, United States), Nikitha C. Chandra, Aleksandra Yu Lee-Mateus, Anoon Koratala, Sina Neshat, Neal M. Patel, Katherine L. Walsh, Ryan M. Chadha, Sebastian Fernandez-Bussky

Diagnostic yield of bronchoalveolar lavage in the investigation of lung cancer
Laetitia Amar (Montreal, Canada), Ping Shi Zhu
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<td>Comparison of the 6-minute walk test (6MWT) in patients with wild-type Transthyretin Amyloid Cardiomyopathy (ATTR-CM) evaluated by cardiopulmonary exercise testing (CPET) – a long-term follow-up study</td>
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<td>Flavio Marco Mirabelli (Roma, Italy), Matteo Morviducci, Luigi Panza, Daniel Piamonti, Roberto Flore, Giulia Lo Muzio, Altea Lecci, Dario Angelone, Paolo Palange</td>
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**PS-4 in poster area**

**Session 449**  12:30 - 14:00

**Poster session: How to optimise non-invasive ventilation: how to initiate, what to monitor and how to adjust?**

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

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

**Tag(s):**  
- Clinical

**Chairs:**  
Maxime Patout (Paris, France), Tim Raveling (Groningen, Netherlands)

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<td>Ventilation titration: different signals, different settings?</td>
<td>Anna Ridgers (Heidelberg, Australia), Warren Ruchland, Liam M Hanann, David J Berlowitz, Mark E Howard</td>
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<td>PA4652</td>
<td>Reliability of nocturnal transcutaneous capnography in a real-world scenario</td>
<td>Cristhian Correa (Madrid, Spain), Daniel Lopez Padilla, Stephany Briones Alvarado, Manuel Mor Martinez, Katiuska Herminia Liendo Martinez, Elena Ojeda Castillojó, Iaf Latif Essa, Francisco Jose Caballero Segura, Luis Puente Maestu, Soledad López Martin</td>
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<td>PA4653</td>
<td>Automatic detection of ineffective efforts (IE) in non-invasive ventilation (NIV)</td>
<td>Pablo Florez Solana (Sabadell, Spain), Cristina Lalmolda Puyol, Marta Corral-Blanco, Ana Hernández Voth, Concepción Montón Soler, Xavier Pomares Amigó, Javier Sayas Catalán, Manel Luján Torné</td>
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<td>PA4654</td>
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<td>PA4655</td>
<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-, Daniel Majorski, Maximilian Zimmermann, Melanie Berger, Wolfram Windisch, Sarah Schwarz</td>
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<td>PA4656</td>
<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 Schön, Christina Spengler</td>
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<td>PA4657</td>
<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 Magnel, Doreen Kroppen, Melanie Berger, Maximilian Zimmermann, Wolfram Windisch, Sarah Schwarz</td>
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<td>PA4658</td>
<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 Martínez, Soledad López Martinez, Elena Ojeda Castillojó, Luis Puente Maestu, Teresa Gómez García</td>
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**Outpatient initiation of non-invasive home ventilation. Two-year experience in a referral hospital. Real-life observational study.**
Ane Lopez Gonzalez (Barcelona, Spain), Cristina Aljama Vizcarra, María Saéz López, Júlia Sampol, Miriam Barrecheguren, Mercedes Pallero, Nuria Rodés, Gabriel Sampol, Sergi Marti

**The evaluation of home non-invasive ventilation with telemonitoring in stable hypercapnic COPD patients: A retrospective case-control study**
Lok Yan Lee (Hong Kong, Hong Kong), Huilin Cheng, Alice Yuen Loke, Suk Fong Wai, Kah Lin Choo

**Successful ongoing experience of outpatient/telemedicine NIV initiation and follow-up in ALS patients during and after COVID pandemic**
Perluigi Intiglietta (Bari (BA), Italy), Paola Pierucci, Gualtiero Romano, Marialuisa De Candia, Simone Rizzelli, Alberto Carrassi, Alessandro Pilon, Chiara Massaro, Giovanna Elisiana Campagnano

**Implementation of an advanced clinical practitioner led NIV follow up service in a secondary care setting**
Hannah Petty (Manchester, United Kingdom), Emma Gray, Nashad Mohiuddin, Peter Mulgrew, Thomas Bongers

**Validation of the S3-NIV-questionnaire in Danish and symptom burden in COPD patients in long-term non-invasive ventilation treatment**
Line Storgaard (Aabybro, Denmark), Nicolas Siadous, Anne-Mette Meldgaard, Ulla M. Weinreich

**Effect of Non-Invasive Ventilation on FVC and diaphragm thickening fraction improvement in AE-COPD with hypercapnic acidosis and acute respiratory failure**
Salvatore Longobardi (Milan, Italy), Sara Bombelli, Claudia D’Antoni, Fabrizio Nava, Sara Mariani, Michele Chiericozzi, Paolo Tarsia

**Comparison of constant-minute-volume vs. constant-bolus systems for ambulatory long-term-oxygen therapy in patients with severe COPD – a randomized crossover trial**
Daniel Majorski (Cologne, Germany), Saba Khan, Sarah Schwarz, Maximilian Wollsching-Strobel, Doreen Kroppen, Tim Mathes, Friederike Magnet, Wolfram Windisch

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**Poster session: Increasing understanding of host-microbe interactions in lung diseases**

**The effect of Porphyromonas gingivalis on inflammatory pathology in normal or COPD airway**
Noriki Takahashi (Kumamoto, Japan), Toru Kariu, Megumi Hayashi, Tomoki Kishimoto, Choyo Ogasawara, Ayami Fukuyama, Keisuke Kawano, Mary Ann Suico, Hirofumi Kai, Tsuyoshi Shuto

**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, Lluís Blanch, Laia Fernández, Antonio Artigas, Marta Camprubí-Rimblas

**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**
Rodolfó De Paula Vieira (Anápolis, Brazil), Maysa Alves Rodrigues Brandao-Rangel, Dobroslav Melamed, Ananei Silva-Reis, Lucas Dos Santos Zamaroli, Sergei Usurov, Tatjana Mostepan, Evgenya Kravchenko, Carlos Rocha Oliveira, Rubens Santos-Silia, Razi Ronen

**Epithelial recovery post COVID-19**

**LPS treatment enhances the immunomodulatory effect of mesenchymal stromal cells-derivedextracellular vesicles**
Aina Areny Balagueró (Sabadell, Spain), Marta Camprubí-Rimblas, Elena Campaña-Duel, Adrián Ceccato, 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
Relative abundance of Haemophilus as a component of the respiratory microbiome is not associated with airway epithelial MUC5AC staining
Sarah Diver (Nottingham, United Kingdom), Kairobi Haldar, Latifa Khalifaoui, Fiona Symon, Simon Couillard, Beverley Hargadon, Rekha Chaudhuri, Steve Bicknell, Adel Mansur, Rahul Shrimanker, Timothy Hinks, Ian Pavord, Stephen Fowler, Vanessa Brown, Lorecan Megeravy, 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

Biomass particles activate IKB-α, P-38 and ERK pathways in human macrophages.
Peter Fenwick (London, United Kingdom), Rebecca Holloway, Sundeep Salvi, Peter Barnes, Louise Donnelly

Cigarette smoke impact on human macrophage cell death and inflammation: role of caspase-8, -3/7 and Gasdermin E
Marta Cristaldi (Palermo, Italy), Marco Buscetta, Maura Cimino, Agnese La Mensa, Fabio Bucchieri, Francesca Rappa, Pia Ferrigno, Giovanna Lo Iacono, Giorgia Tancredi, Santina Amato, Tommaso Silvano Aronica, Elisabetta Pace, Alessandro Bertani, Chiara Cipollina

Cigarette smoke exposure promotes tumorigenesis via G-quadruplex destabilization in a vitro model of macrophages
Davida Mirra (Caserta, Italy), Giuseppe Spaziano, Renata Esposito, Francesca Panico, Salvatore Di Marco, Erika Salvati, Thomas Illig, Marie-Pierre Bousquet, Jayne Behr, Silke Meiners

Cigarette smoke activates the pro-inflammatory axis caspase-8/caspase-3/7/GSDME in human lung fibroblasts
Chiara Cipollina (Palermo (PA), Italy), Agnese La Mensa, Marco Buscetta, Marta Cristaldi, Maura Cimino, Paola Dino, Maria Rita Giuffre', Fabio Bucchieri

PS-6 in poster area

Session 451 12:30 - 14:00
Poster session: Navigating the latest chronic obstructive pulmonary disease therapeutic trends

Disease(s): Airway diseases
Method(s): Epidemiology General respiratory patient care Public health Pulmonary function testing Physiology
Tag(s): Clinical
Chairs: Carolina Gotera (Madrid, Spain), Gareth Hynes (Oxford (Oxfordshire), United Kingdom)

Step up to ICS/LAMA/LABA vs switch to LAMA/LABA in patients with COPD on ICS/LABA: post hoc analysis of KRONOS
Dave Singh (Manchester, United Kingdom), Mona Bafadhel, Karin Bowen, Niki Arya, Jonathan Marshall, Himanshu Parikh, Mehul Patel
PA4688  Persistence to inhaled long-acting maintenance therapy in patients with COPD in UK routine clinical practice
Kieran J. Rothnie (London, United Kingdom), Robert P. Wood, Beade Numereb, Monica Seif, Gema Requena, Christina Diamatari, Emma C. Goodall, Stephen G. Noorduyu, Charley Cooper, Raj Sharma, Chris Compton, Afisi S. Ismaila

PA4689  Heterogeneous treatment effect estimation of LABA/LAMA/ICS on COPD exacerbation risk in the IMPACT trial
Kenneth Verstraete (Leuven, Belgium), Iwein Gyselinck, Helene Huts, Maarten De Vos, Wim Janssens

PA4690  Experience of clinicians on dual bronchodilator therapy in COPD (EXPAND) in Nepal
Ramesh Chokhani (Kathmandu, Nepal), Sanjeet Krishna Shrestha, Sharad Bhattarai, Aniruddha Mukhopadhayay, Vaibhav Gaur, Jaideep Gogtay

PA4691  Clinically important deterioration and COPD treatments: a pairwise meta-analysis
Gian Marco Manzetti (Marino, Italy), Luigiino Calzetta, Mario Cazzola, Paola Rogliani

PA4692  Methods to assess adherence to COPD medication in electronic healthcare databases: a systematic review
Delphine Vauterin (Ghent, Belgium), Frauke Van Varenbergh, Anna Vanoverschelde, Jennifer K Quint, Katia Verhamme, Lies Lahousse

PA4693  Adherence to COPD treatment during the war: can we maintain the previously achieved results?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk

PA4694  Adherence to COPD treatment and concomitant diseases: is there influence?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk

PA4695  Tulobuterol Transdermal Patch as an add on therapy in Stable COPD
Beena Thomas (Kollam (Kerala), India), Parakkal Sukumaran, Thomas Beena, R Radhika, M Midhun, P Rekha, K P Venugopal, Niran Mathew, Rekha Parmeswari

PA4696  Inhaled triple therapy versus dual bronchodilation in smokers patients with COPD: a 3-year observational study
Angelo Petroianni (Roma (RM), Italy), Marco Bezzio, Silvia Magliulo, Manuel Santu, Paolo Palange

PA4697  The national development in the use of inhaled corticosteroid treatment for chronic obstructive pulmonary disease in Denmark from 1995 to 2018
Allan Klitgaard (Vejle, Denmark), Rikke Ibsen, Ole Hilberg, Anders Løkke

PA4698  Economic benefit of fluticasone furoate (FF)/umeclidinium (UMEC)/vilanterol (VI) by baseline blood eosinophil (EOS) count in COPD in the UK - The IMPACT trial
Afisi S Ismaila (Malvern, United States), Dhvani Shah, Alan Martin, Robyn Kendall, Stephen G Noorduyu, Priyadarsini Dasari, Nancy A Risebrough, Chris Compton

PA4699  Does azithromycin modulate cardiovascular risk following acute pulmonary exacerbations of chronic obstructive pulmonary disease?
Freddy Frost (Liverpool, United Kingdom), Tomasso Bucci, Dennis Wat, Sarah Sibley, David Green, Gregory Lip

PA4700  Safety and efficacy of home initiation of chronic non-invasive ventilation in patients with severe COPD and chronic hypcapnic respiratory failure.
Emma Parkes (Cardiff, United Kingdom), Eilish Yarham, Kirsty Eastwood, Michelle Davies, Stuart Packham

PA4701  A meta-analysis on the importance of peak inspiratory flow variance in simplifying DPI prescribing for COPD patients
Monbi Stefanova Chakma (UPMINSTER, United Kingdom), Omar S Usmani, Liangfeng Han, Bryan Newman, Eslam Ibrahim, Darragh Murnane

PA4702  Inhaler technique mastery in elderly COPD patients with cognitive impairment trained on different inhaler devices
Elsa Mazzarella (Florence, Italy), Letizia Dal Bosco, Guido Arena, Riccardo Soldaini, Amedeo Vannacci, Federico Lavorini

PA4703  Extra-fine Particle Inhaled Corticosteroids Influence on the Risk of Hospitalization due to Pneumonia in Patients with Chronic Obstructive Pulmonary Disease - A Populations-Based Cohort Study
Christian Kjer Heerfordt (Hellerup, Denmark), Christian Rønn, Zitta Barrella Harboe, Pradeesh Sivepalan, Josefín Eklöf, Jens-Ulrik Stehr Jensen

PA4704  The Impact of Extrafine Beclometasone/Formoterol/Glycopyrronium on Sleep disturbance in Chronic Obstructive Pulmonary Disease (COPD) in an Italian Context of Real Life: The TRITRIAL Study.
Ulrica Scaffidi Argentina (PARMA, Italy), Luca Richeldi, Pietro Schino, Elena Bargagli, Alberto Ricci, Alberto Rocca, Francesca Marchesani, Alfio Pennisi, Gianna Camiciottoli, Mariella D'Amato, Francesco Macagno, Elena Garavelli, Eleonora Ingrassia, Alessio Piraino
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

BIOLOGIC TREATMENT IN PERSISTENT SEVERE ASTHMA

Edurne Echevarria Guerrero (Barakaldo, Spain), Ana Gomez Larrauri, Jone Solorzano Eguribide, Imanol Gonzalez Munoz, Elena Garay Llorente, Teresa Breto Dorronsoro, Silvia Perez Fernandez, Milagros Iribarri Pascual, Nuria Marina Malanda

Follow-up of patients with severe eosinophilic asthma receiving benralizumab for one year (gReek rEAI Life reglStry of benralizuMab: REALISM Study)

Konstantinos Sanitas (Athens, Greece), Chryssoula Kontogianni, Petros Bakakos, Nikolleta Rovina, Stelios Loukides, Andrianna Papaioannou, Nikolaos Tzanakis, Katerina Antoniou, Katerina Dimakou, Georgios Hillas, Sofia Koukoudou, Aikaterini Ioanna Sakellaropoulou, Konstantinos Katsoulis, Maria Kipourou, Nik Georgatou, Dimosthenis Papapetrou, Ourania Kotsiou, Nikolaos Zias, Evangelia Fouka, Konstantinos Porpodis, Maria Hatziimotrova, Despoina Papakosta, Paschalis Steiropoulos, Konstantinos Kostikas, Athena Kallieri, Milia Pietro, Stelios Loukides, Eleftherios Zervas

Treating severe IgE mediated allergic adult asthmatics with omalizumab outside the dosing table

Etienne Ceci Bonello (Naxxar, Malta), Caroline Gouder

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 Raidullah, Rehab 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 biologicals 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 Schmidt, Tina Skjold, Anne Sophie Bjerrum

The clinical experience of patients with severe asthma and previous treatment with omalizumab, choosing mepolizumab in Greece.


Follow-up of patients with severe eosinophilic asthma receiving benralizumab for one year (gReek rEAI Life reglStry of benralizuMab: REALISM Study)


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The clinical experience of patients with severe asthma and previous treatment with omalizumab, choosing mepolizumab in Greece.

PA4718 Persistance of eosinophils in bronchial mucosa biopsies in patients treated with dupilumab for 6 months
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Andrea Cristiano, Adriano Vaghi

PA4719 Eosinophils sub-types in patients with severe asthma treated with monoclonal antibodies.
Alejandra Sánchez-Santos (Las Palmas de Gran Canaria, Spain), Carlos Cabrera-López, Angelina Lemes-Catellano, Sara Cazorla-Rivero, Enrique González-Dávila, Bartolomé Celli, Ciro Casanova-Macario

PA4720 Long-term safety and efficacy of tezepelumab in adolescents with severe, uncontrolled asthma
Guy Brusselle (Ghent, Belgium), Kaitlyn Lawson, Sandhia Ponnarambil, Andrew Lindsley, Daiana Stolz

PA4721 Inhaled corticosteroid dose reduction with tezepelumab in patients with severe, uncontrolled asthma over 2 years
Daiana Stolz (Freiburg, Germany), NJira Lugogo, Kaitlyn Lawson, Scott Caveney, Shradha Chandarana

PA4722 On-treatment clinical remission with tezepelumab in patients with severe, uncontrolled asthma in the phase 3 DESTINATION study
Michael E. Wechsler (Denver, United States), Guy Brusselle, J Christian Virchow, Liam G Healney, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Jean-Pierre Llanos, Celeste Porsbjerg, Christopher E Brightling

PA4723 Success of an oral corticosteroid withdrawal pathway for severe asthma patients on biologics
Richard Russell (Leicester, United Kingdom), Claire Boddy, Mark Bell, Eleanor Hampson, Lauren Parnell, Shamsa Naveed, Karim Meenan, Salman Siddiqui, Peter Bradding

PA4724 Successful steroid weaning in a severe asthma centre does not always require biologics
Emma Graham (Plymouth, United Kingdom), Chellman Eames, Ciara Whitfield, Sumita Kerley, Eleanor Rayala-Montaniel, Peter Cook, Hans Michael Haithaci, Ramesh Kurukulaaratchy, Paddy Dennison, Nadia Zarif, Hitasha Rupani

PA4725 Effectiveness and economic impact of Dupilumab in asthma: a population-based cohort study
Pietro Curci (Monza, Italy), Paola Faverio, Raffaella Ronco, Matteo Monzio Compagnoni, Matteo Franchi, Giovanni Franco, Giulia Bonaiti, Martina Bonifazi, Federico Mei, Fabrizio Luppi, Giovanni Corrao

PA4726 On-treatment clinical remission with tezepelumab in patients with severe, uncontrolled asthma in the phase 3 DESTINATION study
Michael E. Wechsler (Denver, United States), Guy Brusselle, J Christian Virchow, Liam G Healney, Gillian Hunter, Sandhia Ponnarambil, Neil Martin, Jean-Pierre Llanos, Celeste Porsbjerg, Christopher E Brightling

PA4727 Improved spirometric and oscillometric indices in severe asthma with clinical remission by anti-IL-5/IL-5 receptor alpha antibodies
Taisuke Akamatsu (Shizuoka, Japan), Kohei Okawa, Keita Hirai, Toshihiro Shirai

PA4728 Small airway changes assessed by impulse oscillometry in severe asthmatic patients treated with Benralizumab
Cristina De Juana Izquierdo (VALENCIA, Spain), Andrés Sánchez Vera, Eva Maria Abril Ródenas, Elisa Lillo González, Vicente Abella Sanchis, Alejandro Álvarez Brito, Eva Martinez Moragón

PA4729 Effect of prior anti-IL5 treatment on benralizumab outcomes in severe asthma
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Mina Naderisemiromi, Taqdees Qureshi, Leanne Holmes, Lynn Elsey, Thomas Pantin, Stephen Fowler

PA4730 Well-controlled severe asthmatics: who they really are?
Venere Piluso (Rome, Italy), Francesca Cefaloni, Cristina Boccabella, Luca Richeldi, Matteo Bonini

PA4731 Parasite screening in a large pre-biologic severe eosinophilic asthma population
Irene Berrar Torre (London, United Kingdom), Kena Simpson, Rachel Stead, Victoria Nicholas, Darius Armstrong-James, Breda Cusden, Pujan Patel

PA4732 Severe Asthma Questionnaire (SAQ) and Asthma Control Questionnaire (ACQ) as early predictors of biologic response in severe asthma.
Drew Davies (Exeter, United Kingdom), Joseph Lanario, Micheal Hyland, Mathew Masoli
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 (Rivalta di Torino, 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 biology on lung function in adults with severe eosinophilic asthma.
Samuel Wallbanks (BIRMINGHAM, United Kingdom), Maximillian Thomas, Brendan Cooper, Julie Sullivan, Lisa White, Anil Kumar Pillai, Adel Mansur

Effectiveness of anti-IL5 biology in severe asthma, based on real world observational studies: a systematic review
Dimitrios Potonos (Ioannina, Greece), Konstantinos Exarchos, Christina Aggelopoulou, Evangelos Beris, Aggelos Ladas, Christos Kyriakopoulos, Athena Gogali, Konstantinos Kostikas

“Head-to-head” comparison between biologics in severe asthma: a real-world study
Elisa Riccardi (Massino Visconti, Italy), Giuseppe Guida, Sonia Garino, Francesca Bertolini, Vitina Carriero, Mattia Brusamento, Stefano Pizzimenti, Stefano 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 Akrou, Hajar Abdelghaffar, Hela Hassene, Leila Fekih, Hela Kammoun, Mohamed Lamine Megdiche

Effects of anti-IL5 receptor σ 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
Mouaid 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 Eliesen, Joce-Max Wakim, José Manuel Jerez Pombo, Emilie Balk Møller

PS-9 in poster area
Session 454 12:30 - 14:00
Poster session: The impact of comorbidities and infection on the outcome of airways disease and response to treatment

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Imaging, General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Endoscopy and interventional pulmonology
Tag(s): Clinical, Translational
Chairs: Cindy Barnig (Besançon, France)

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 Mehmoord, 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 Caiaffa, Raffaele Campisi, Giovanna Elisiana Carpegnano, Nunzio Crimi, Maria D’Amato, Maria Pia Foschino Barbato, Angelantonio Maglio, Elena Minenna, Santi Nolasco, Giuseppe Paglino, Francesco Papia, Girolamo Pelaia, Andrea Portacci, Luisa Ricciardi, Nicola Scichilone, Giulia Scioscia, Massimo Triggiani, Giuseppe Valenti, Alessandro Vatrella, Claudia Crimi

Asthma diagnosis and symptoms in an allergen immunotherapy trial treating grass pollen induced rhinoconjunctivitis
Bjarke Hviid-Vyff (Aarhus C, Denmark), Johannes Martin Schmid

High-dose aspirin in severe uncontrolled asthma associated with chronic rhinosinusitis with nasal polyps (CRwNP): the ASTHMIRINE trial
Mathilde Le Brun (Paris, France), Gilles Devouassoux, Cécile Chenivesse, Gilles Garcia, Philippe Bonnial, Alain Didier, Frédéric De Blay, Catherine Neukirch, Arnaud Boudrin, 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 Ditetova, Zlatica Nevrlkova, Lenka Zdrazilova-Dubska

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 Ehmans, Slagjana Stoshikj, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

Effectiveness and Safety of Anti-IL-5/Ra Biologics in Eosinophilic Granulomatosis with Polyangiitis: A Two-Year Multicenter Observational Study
Santi Nolasco (Catania, Italy), Andrea Portacci, Raffaele Campisi, Enrico Buonamico, Corrado Pelaia, Alida Benfante, Massimo Triggiani, Giuseppe Spadaro, Maria Filomena Caiaffa, Giulia Scioscia, Aiakarini Detoraki, Giuseppe Valenti, Francesco Papia, Alessandra Tomasello, Nunzio Crimi, Nicola Scichilone, Girolamo Pelaia, Giovanni Elisiana Carpegnano, Claudia Crimi

Role of Galectin-10 (Gal-10) in nasal epithelium inflammation and remodeling of children with seasonal allergic rhinitis (SAR)
Rosalia Gagliardo (Palermo (PA), Italy), Olga Maria Manna, Stefania La Grutta, Velia Malizia, Alberto Fucarino, Francesca Rappa, Domiziana Picone, Salvatore Pasola, Mirella Profiga, Fabio Bucchieri

Grading the severity of the local side effects induced by Sublingual Immunotherapy for Allergic Respiratory Disease
ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chaabane, Marwa Kacem, Nouha Boubaker, Achriz Aichaouia, Samira Mhamdi, Zied Moatameri

Obese asthma with positive type-2 inflammation markers: Cytokine profiles and potential pathogenesis
Masato To (Saitama, Japan), Natsue Honda, Kosuke Haruki, Yasuo To

Real-world outcomes with mepolizumab in patients with severe asthma and comorbid anxiety/depression: REALITI-A at 2 years
Rekha Chaudhuri (Glasgow (Glasgow), United Kingdom), Mark C. Liu, Diego Bagnasco, Andrea Matsucli, Charles Pickle, Robert G. Price, Lydia Demetriou, Peter Howarth

Experience of the COVID-19 pandemic in asthmatic patients
Safa belkhir (Tunis, Tunisia), Soumaya Ben Saad, Amani Ben Mansour, Azza Slim, Hafaoua Daqfous, Fatma Tritar

The Burden of Allergic Bronchopulmonary Aspergillosis in Post-Tuberculosis Lung Disease Patients Presenting to a Tertiary Referral Centre
Animesh Ray (Kolkata (West Bengal), India), Anuj Ayaj, Gagandeep Singh, Sanjeev Sinha, Immaculata Xess, Naveet Wig

Doctors Clinical-Decision making Algorithm for Allergy to Anti-Tuberculosis Drugs in Tunisia
ASMA SAIDANE (TUNIS, Tunisia), Selsebil Daboussi, Meriem Chabane, Marwa Kacem, Nouha Boubaker, Achriz Aichaouia, Samira Mhamdi, Zied Moatameri

The role of specific and total IgE in COPD
Meropi Karakioulaki (Freiburg im Breisgau, Germany), Caroline-Maria Berkemeier, Leticia Grize, Ingmar Heijnen, Antonis Goulas, Michael Tamm, Daiana Stolz

Patient burden on refractory and unexplained chronic cough: a qualitative survey in Japan
Takekazu Kubo (Tokyo, Japan), Naoya Ueda, Masakazu Igarashi, Anzu Yakushiji, Shigeru Tokita

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
Daniel Weidinger (Bochum, Germany), Kaschin Jamal Jameel, Marcel Raczew, Eike Bueltthoff, Paul Bürl, Simon Rohde, Faisal Yusuf, Juliane Kronobien, Matthias Tenbusch, Marcus Peters, Jürgen Knobloch
Anti-staphylococcal enterotoxin A and B immunoglobulin E in COPD
Meropi Karakioulaki (Freiburg im Breisgau, Germany), Caroline-Maria Berkemeier, Ingmar Heijnen, Leticia Grize, Eleni Papakonstantinou, Antonios Goulas, Michael Tamm, Daiana Stolz

Clinical relevance of Staphylococcus aureus nasal colonization and Staphylococcal enterotoxin-specific IgE sensitization in late-onset asthma
Ha-Kyeong Won (Seoul, Republic of Korea), Youngsang Yoo, Jiwon Lee, Noeul Kang, Ji-Hyang Lee, Jun-Pyo Choi, Taebum Kim, Sang Heon Cho, Woo-Jung Song

Modelling small airways disease at air-liquid-interface with extended NTHi biofilm co-culture: Implications in COPD.
Jake Weeks (Southampton, United Kingdom), C. Mirella Spalluto, M. Vicky Humbert, Tom Wilkinson, Kristoffer Ostridge, Karl Staples

Session 455
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
All Speakers

INDUSTRY LUNCHETIME SYMPOSIUM
SEE PAGE 1

Session 458
12:45 - 13:45
Joint session: Prevention is better than cure. Vaccination developments in the next century
an ERS / Industry Joint Session
Tag(s): Clinical
Chairs: Tobias Welte (Hanover, 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
All Speakers

State of the art session: Interstitial lung diseases
Filling the gaps in care for interstitial lung diseases
Aims: to discuss: 1) the primary care setting, exploring symptom evaluation in ILDs; 2) the novel assessment of idiopathic pulmonary fibrosis (IPF) management in light of different phase 3 clinical trials of this disease; 3) hypersensitivity pneumonitis (HP) and recent guidelines from different societies, such as novel therapeutic advances after the introduction of antifibrotic therapy in progressive HP; 4) the lungs with the common disease (also in the primary care setting) rheumatoid arthritis, focusing on the ILD component, and, more specifically, address whether its pathogenesis starts from the lungs.

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care, Physiology, Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist
Chairs: Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)
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<tr>
<td>13:45</td>
<td>Symptom management in ILD</td>
<td>Kerri Ilene Aronson (New York, United States)</td>
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<td>14:00</td>
<td>Precision medicine in IPF</td>
<td>Athol Wells (London, United Kingdom)</td>
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<td>14:15</td>
<td>New developments in HP diagnosis and therapeutic management</td>
<td>Martina Koziar Vasakova (Praha 10, Czech Republic)</td>
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<td>14:30</td>
<td>Rheumatoid arthritis and the lungs: new concepts and treatments</td>
<td>Katerina Antoniou (Heraklion, Greece)</td>
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<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Silver Session 461 13:45 - 15:15**

**Symposium: The ‘silent zone’ is heard: latest insights and updates in small airways disease in asthma and chronic obstructive pulmonary disease**

**Aims:** to provide an update on recent research into the increasing importance of small airways diseases in patients with asthma and chronic obstructive pulmonary disease (COPD); to describe new developments in the assessment of small airways diseases using physiological methods; to provide an update on evidence for the clinical impact of small airways diseases on patient-related outcomes; to highlight recent data regarding treatment targeted at small airways diseases and how this relates to clinical outcomes.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

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<th>Time</th>
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<tbody>
<tr>
<td>13:45</td>
<td>Small airways and early origins of airway disease: pathobiological considerations</td>
<td>Francesca Polverino (Houston, United States)</td>
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<td>4790</td>
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<tr>
<td>14:00</td>
<td>Advances in physiological assessments of small airways diseases in asthma and COPD for everyday clinical practice</td>
<td>Chung-Wai Chow (Toronto (ON), Canada)</td>
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<tr>
<td>14:15</td>
<td>Evidence for the clinical impact of small airways diseases on patient-related outcomes in patients with asthma and COPD</td>
<td>Monica Kraft (New York, United States)</td>
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<td>14:30</td>
<td>Targeting and treating small airways disease in patients with asthma and COPD</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<td>4793</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Coral 4+5 Session 462 13:45 - 15:15**

**Clinical trials session: ALERT 3: Healthy Lungs for Life**

#BeSmokeFree - #BreatheCleanAir

**Chairs:** Florence Schleich (Liège, Belgium), Chair to be confirmed

**Discussants:** Jonathan Grigg (London, United Kingdom), Discussant to be confirmed

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<td>13:45</td>
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<td>14:06</td>
<td>RCT Wrap-up by discussant and discussion</td>
<td>Speaker to be confirmed</td>
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<td>14:28</td>
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Coral 3  Session 463  13:45 - 15:15
Hot topics: Incidental findings in low dose computed tomography lung cancer screening programmes: be aware, be prepared!

Aims: to highlight potential benefits and harms of incidental findings in low dose computed tomography lung cancer screening programmes; to present complementary professional perspectives of latest evidence and to add up to multidisciplinary management strategies.

Disease(s): Thoracic oncology

Method(s): Endoscopy and interventional pulmonology  Epidemiology  Imaging

Tag(s): Clinical

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

Chairs: Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

13:45  Incidental findings: the Radiologist’s experience
Jens Vogel-Claussen (Hannover, Germany)  4804

14:00  Incidental findings: the AI’s answers

14:15  Patient's perspective

14:20  Incidental findings: the GP’s perspective

14:35  The pulmonologist’s new challenge: emphysema and ILA out of LDCT

14:50  Discussion and Q&A
All Speakers  4809

Coral 1  Session 464  13:45 - 15:15
Symposium: Lung cancer screening: turning up the heat and moving onwards

Aims: to focus on the best practices and latest developments in lung cancer screening; to address topics relevant to an international audience by reviewing current data to highlight success and help remove barriers to increased adoption of efficient lung cancer screening programmes; to facilitate meaningful interaction between clinicians and researchers involved in different aspects of early detection (imaging, biomarkers, quality assurance, research, etc.) and relevant research.

Disease(s): Thoracic oncology

Method(s): Endoscopy and interventional pulmonology  Imaging  Public health

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs: Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)

13:45  Biomarkers in lung cancer screening: can they impact clinical management plans?
Ehab Billatos (Boston, United States)  4810

14:00  Lung cancer detection by the electronic nose
Wouter H. van Geffen (Leeuwarden, Netherlands)  4811

14:15  Emerging bronchoscopic options for early detection of lung cancer
Pallav L. Shah (London, United Kingdom)  4812

14:30  Lung cancer screening in Europe: a first snapshot by SOLACE
Marie-Pierre Revel (Paris, France)  4813
**Session 465**  
**13:45 - 15:15**  
**State of the art session: Respiratory critical care**
**Noninvasive and invasive mechanical ventilation in acute respiratory diseases**

**Aims:** to provide a state of the art overview of mechanical ventilation in acute respiratory failure, i.e., acute respiratory distress syndrome (ARDS), acute exacerbation of chronic obstructive pulmonary disease and beyond.

**Disease(s):** Respiratory critical care  
**Method(s):** General respiratory patient care  
**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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<tr>
<td>13:45</td>
<td>Molecular mechanisms of ventilator induced lung injury</td>
<td>Martin Witzenrath (Berlin, Germany)</td>
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<tr>
<td>14:00</td>
<td>Evidence-based invasive mechanical ventilation in ARDS</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>14:15</td>
<td>Extracorporeal membrane oxygenation in ARDS: state of the art</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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<td>14:30</td>
<td>Weaning from mechanical ventilation</td>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Session 466**  
**13:45 - 15:15**  
**Mini symposium: Genetics in paediatric respiratory diseases**
**Genetic heterogeneity underlies phenotype and therapeutic approaches**

**Aims:** to present the main process and challenges of genetic data interpretation; to list the main genetic diagnostic tools and their limitations; to provide the audience with key tips to read a genetic report; to discuss importance of genotyping for three model monogenic diseases that can affect newborns or occur later in life (cystic fibrosis, surfactant disorders and primary ciliary dyskinesia): to illustrate the phenotype-genotype correlation diversity and gene/mutation(s) distinct consequences at the cell level; to explain the consequences of molecular diagnosis on vital prognosis at birth, follow-up, lung cancer risk later in life and genetic counselling; to explain how genotypes connect with current personalised treatments and their development.

**Disease(s):** Airway diseases, Interstitial lung diseases, Paediatric respiratory diseases  
**Method(s):** Cell and molecular biology, Epidemiology, General respiratory patient care

**Tag(s):** Translational

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

**Chairs:** Nicole Beydon (Paris, France), Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia)

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<tr>
<td>13:45</td>
<td>Patient's perspective</td>
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<td>13:50</td>
<td>Basics of genetic diagnostics</td>
<td>Marie Legendre (Paris, France)</td>
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<td>14:05</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>14:20</td>
<td>Models for ciliated airway epithelial cells and personalised medicine</td>
<td>Andrew Berical (Boston, United States)</td>
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<td>14:35</td>
<td>Discussion and Q&amp;A</td>
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ERS International Congress 2023
DETAILED PROGRAMME
TUESDAY 12 SEPTEMBER, 2023

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**Purple**  
**Session 466**  
**13:45 - 15:15**  
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**Genetic heterogeneity underlies phenotype and therapeutic approaches**

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**Disease(s):** Airway diseases, Interstitial lung diseases, Paediatric respiratory diseases  
**Method(s):** Cell and molecular biology, Epidemiology, General respiratory patient care

**Tag(s):** Translational

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

**Chairs:** Nicole Beydon (Paris, France), Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia)
### Oral presentation: Pulmonary embolism: acute and long-term management (1)

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

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

**Tag(s):** Clinical

**Chairs:** Laurent Bertoletti (Saint Etienne Cedex, France), Lucilla Piccari (Barcelona, Spain)

**OA4826**
Late Breaking Abstract - Does ultrasound in suspected pulmonary embolism safely reduce referral to diagnostic imaging? – a randomized controlled trial

Casper Falster (Odense, Denmark), Rune Wiig Nielsen, Jacob Eifer Møller, Mikael Kjær Poulsen, Stefan Posth, Mikkel Brabrand, Christian B. Laursen

**OA4827**
Pulmonary embolism diagnostic strategies in patients with COPD exacerbation: post-hoc analysis of the PEP trial

Francis Couturaud (Brest, France), Vicky Mai, Geoffroy Rambaud, Camille Motreff, Olivier Sanchez, Pierre-Marie Roy, Yannick Affret, Raphael Le Mao, Frédéric Gagnadoux, Nicolas Paleiron, Jeannot Schmidt, Jean Pastre, Michel Nonent, Cécile Tromeur, Pierre-Yves Salaun, Patrick Mismetti, Philippe Girard, Karine Lacut, Catherine Lemarié, Guy Meyer, Christophe Leroyer, Grégoire Le Gal, Laurent Bertoletti

**OA4828**
Evolution of cardiac biomarkers and short-term prognosis in pulmonary embolism

Laurent Bertoletti (Saint Etienne Cedex, France), Maxime Castan, Luc Janisset, Valentine Mismetti, Géraldine Poenou, Raphaël Lachand, Sandrine Accassat, Thibault Leconte, Elie Ayoub, Loïc Villeneuve, Cyril Noto-Campanela, Alain Viallon

**OA4829**
Outpatient management of cancer-related pulmonary embolism: a post-hoc analysis of the HOME-PE trial


**OA4830**
The utility of routine systematic respiratory assessment following initial management of acute pulmonary embolism

Sarah Shuker (Coventry, United Kingdom), Emma Helm, Benjamin Bailiff, David Parr

**OA4831**
MicroRNAs as predictors of chronic thromboembolic pulmonary hypertension

Remedios Otero Candelera (Sevilla, Spain), Julia Oto Martínez, Olga Tura Ceide, David Hervás Marín, Elena Arellano Orden, Isabel Blanco, Victor Peinado, Pilar Medina Badenes, Joan Albert Barberá, Verónica Sánchez López

**OA4832**
HDAC6 regulates endothelial-to-mesenchymal transition in venous thrombosis

Catherine Lemarie (BREST, France), Marion Pirlard, Virginie Gourdou-Latyzenok, Sara Robin, Francis Couturaud

**OA4833**
Rehabilitation to improve exercise capacity and quality of life after pulmonary embolism

Øyvind Jervan (Fredrikstad, Norway), Stacey Haukeland Parker, Jostein Gleditsch, Mazdak Tavoly, Frederikus Klok, Kjetil Steine, Hege Holmo Johannessen, Martijn Spruit, Dan Atar, Rene Holst, Anders Erik Astrup Dahm, Per Anton Sirnes, Knut Stavem, Waleed Ghanaiva

**OA4834**
Rate of clinically relevant bleeding and recurrent venous thromboembolism according to location of the metastases in patients with cancer associated thrombosis.

Víctor García García (Sevilla, Spain), Maria Barca-Hernando, Samira Marin Romero, Sergio Lopez Ruz, Teresa Elias-Hernandez, Luis Jara-Palomares

**OA4835**
Case fatality rate of recurrent venous thromboembolism and clinically relevant bleeding in patients with cancer.

Maria Barca Hernando (Sevilla, Spain), Sergio Lopez-Ruz, Víctor García-Garcia, Samira Marin-Romero, Teresa Elias-Hernandez, Luis Jara-Palomares

**OA4836**
Discussion and Q&A

All Speakers

### Brown 3  

**Session 469 14:15 - 15:30**

**OA4837**
Oral presentation: Sleep apnoea phenotyping: clinical features, pathophysiology, and biomarkers

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

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

**Tag(s):** Clinical
Late Breaking Abstract - Obstructive sleep apnoea phenotypes in women: data from the ESADA cohort
Athanasia Pataka (Thessaloniki, Greece), Sebastien Bailly, Maria Bonsignore, Tarja Saarensranta, Sofia Schiza, Izolde Bouloukaki, Paschalis Steiropoulos, Georgia Trakada, Renata Riha, Zorian Dogas, Dries Testelmanns, Ozen Basoglu, Stefan Mihaicuta, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of The Esada Group

OSA phathophysiological traits in Milan and Monza-Brianza
Elisa Perger (Milano, Italy), Anna Monzani, Paolo Mertegi, Margarida V. Matias, Laura Garzillo, Marta Tundo, Antonio Foresi, Gianfranco Parati, Paola Faverio, Fabrizio Luppi, Carolina Lombardi

Modification of OSA endotypic traits by sulthiame
Erik Hoff (Göteborg, Sweden), Christian Strassberger, Ding Zou, Kaj Stenlöf, Ludger Grote, Jan Hedner

Redefining the Baveno Classification for obstructive sleep apnea
Sandiya Matthes (Solingen, Germany), Marcel Treml, Lars Hagmeyer, Winfried Randerath

Ischemia-modified albumin: an innovative biomarker evaluating cardiovascular risk in Obstructive Sleep Apnea patients.
Pilar Resano Barrio (Guadalajara, Spain), Enrique Alfaro García, Esther Solano Pérez, Carlota Coso Serrano, Carolina Cubillos Zapata, Elena Diaz García, Sofia Romero Peralta, Maria Esther Viejo Ayuso, Laura Silgado Martínez, Leticia Álvarez Balado, María Castillo García, Rosa Mediano San Andrés, Irene Cano Pumarega, Jorge Abad, Joaquín Durán Cantolla, Amaia Urrutia, María José Masdeu, Estrella Ordx Carbayo, Juan Fernando Masa, Mónica De La Peña, Mercé Mayos, Ramón Coloma, Josep Maria Montserrat, Eusebi Chiner, Jose Luis Izquierdo, Ferrán Barbé, Francisco García Río, Manuel Sánchez De La Torre, Olga Mediano

Obstructive sleep apnea with excessive daytime sleepiness is an independent risk factor for all-cause mortality: The Skara Sleep Cohort
Ding Zou (Gothenburg, Sweden), Ying Li, Ludger Grote, Ulf Lindblad, Jan Hedner*, Bledar Daka*

Prevalence of depression partly explains heterogeneity in prevalence of excessive daytime sleepiness in patients from different Countries in the European Sleep Apnea Database (ESADA)
Maria Rosaria Bonsignore (Palermo, Italy), Sebastien Bailly, Fabio Cibella, Alessandra Castrogiovanni, Sofia Schiza, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of Esada

Excessive daytime sleepiness across Europe in OSA patients from the ESADA cohort: does cultural differences matters?
Izolde Bouloukaki (Heraklion (Crete), Greece), Renata Riha, Ludger Grote, Marisa Bonsignore, Jan Hedner, Jean-Louis Pépin, Athanasia Pataka, Winfried Randerath, Sébastien Bailly, Silke Ryan, Sophia Schiza

Overnight variation of premature ventricular complexes in patients with CSA and heart failure
Christoph Fisser (Regensburg, Germany), Amelie Ebert, Valentin Günzler, Florian Zeman, Dominik Linz, Holger Wöhrle, Renaud Tamisier, Martin R Čowie, Michael Arzt

Incongruence of the apnea/hypopnea index in detecting intermittent desaturations at very high altitude
Elisa Perger (Milano, Italy), Margarida V. Matias, Davide Soranna, Antonella Zambon, Javier Cantuarias, Simona Bertoli, Carolina Lombardi, Gianfranco Parati

Discussion and Q&A
All Speakers

**Brown 1+2 Session 470 14:15 - 15:30**

Oral presentation: Personalised medicine and deep learning in interstitial lung disease and chronic obstructive pulmonary disease imaging

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

**Method(s):** Imaging, Pulmonary function testing

**Tag(s):** Clinical

**Chairs:** Ádám Domonkos Tárnoki (Budapest, Hungary), Chair to be confirmed

**Late Breaking Abstract - Artificial intelligence-based dee—ision support for HRCT stratification in fibrotic lung disease; an international study of 116 observers from 37 countries.**

**DETAILED PROGRAMME**

**TUESDAY 12 SEPTEMBER, 2023**

**OA4837**

**Athanasia Pataka (Thessaloniki, Greece), Renaud Tamisier (Grenoble, France)**

**Late Breaking Abstract - Obstructive sleep apnoea phenotypes in women: data from the ESADA cohort**

**Athanasia Pataka (Thessaloniki, Greece), Sebastien Bailly, Maria Bonsignore, Tarja Saarensranta, Sofia Schiza, Izolde Bouloukaki, Paschalis Steiropoulos, Georgia Trakada, Renata Riha, Zorian Dogas, Dries Testelmanns, Ozen Basoglu, Stefan Mihaicuta, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of The Esada Group**

**OA4838**

**OSA phathophysiological traits in Milan and Monza-Brianza**

**Elisa Perger (Milano, Italy), Anna Monzani, Paolo Mertegi, Margarida V. Matias, Laura Garzillo, Marta Tundo, Antonio Foresi, Gianfranco Parati, Paola Faverio, Fabrizio Luppi, Carolina Lombardi**

**OA4839**

**Modification of OSA endotypic traits by sulthiame**

**Erik Hoff (Göteborg, Sweden), Christian Strassberger, Ding Zou, Kaj Stenlöf, Ludger Grote, Jan Hedner**

**OA4840**

**Redefining the Baveno Classification for obstructive sleep apnea**

**Sandiya Matthes (Solingen, Germany), Marcel Treml, Lars Hagmeyer, Winfried Randerath**

**OA4841**

**Ischemia-modified albumin: an innovative biomarker evaluating cardiovascular risk in Obstructive Sleep Apnea patients.**

**Pilar Resano Barrio (Guadalajara, Spain), Enrique Alfaro García, Esther Solano Pérez, Carlota Coso Serrano, Carolina Cubillos Zapata, Elena Diaz García, Sofia Romero Peralta, Maria Esther Viejo Ayuso, Laura Silgado Martínez, Leticia Álvarez Balado, María Castillo García, Rosa Mediano San Andrés, Irene Cano Pumarega, Jorge Abad, Joaquín Durán Cantolla, Amaia Urrutia, María José Masdeu, Estrella Ordx Carbayo, Juan Fernando Masa, Mónica De La Peña, Mercé Mayos, Ramón Coloma, Josep Maria Montserrat, Eusebi Chiner, Jose Luis Izquierdo, Ferrán Barbé, Francisco García Río, Manuel Sánchez De La Torre, Olga Mediano**

**OA4842**

**Obstructive sleep apnea with excessive daytime sleepiness is an independent risk factor for all-cause mortality: The Skara Sleep Cohort**

**Ding Zou (Gothenburg, Sweden), Ying Li, Ludger Grote, Ulf Lindblad, Jan Hedner*, Bledar Daka*”**

**OA4843**

**Prevalence of depression partly explains heterogeneity in prevalence of excessive daytime sleepiness in patients from different Countries in the European Sleep Apnea Database (ESADA)**

**Maria Rosaria Bonsignore (Palermo, Italy), Sebastien Bailly, Fabio Cibella, Alessandra Castrogiovanni, Sofia Schiza, Jan Hedner, Ludger Grote, Jean-Louis Pepin, On Behalf Of Esada**

**OA4844**

**Excessive daytime sleepiness across Europe in OSA patients from the ESADA cohort: does cultural differences matters?**

**Izolde Bouloukaki (Heraklion (Crete), Greece), Renata Riha, Ludger Grote, Marisa Bonsignore, Jan Hedner, Jean-Louis Pépin, Athanasia Pataka, Winfried Randerath, Sébastien Bailly, Silke Ryan, Sophia Schiza**

**OA4845**

**Overnight variation of premature ventricular complexes in patients with CSA and heart failure**

**Christoph Fisser (Regensburg, Germany), Amelie Ebert, Valentin Günzler, Florian Zeman, Dominik Linz, Holger Wöhrle, Renaud Tamisier, Martin R Čowie, Michael Arzt**

**OA4846**

**Incongruence of the apnea/hypopnea index in detecting intermittent desaturations at very high altitude**

**Elisa Perger (Milano, Italy), Margarida V. Matias, Davide Soranna, Antonella Zambon, Javier Cantuarias, Simona Bertoli, Carolina Lombardi, Gianfranco Parati**

**OA4847**

**Discussion and Q&A**

**All Speakers**

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**Brown 1+2 Session 470 14:15 - 15:30**

Oral presentation: Personalised medicine and deep learning in interstitial lung disease and chronic obstructive pulmonary disease imaging

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

**Method(s):** Imaging, Pulmonary function testing

**Tag(s):** Clinical

**Chairs:** Ádám Domonkos Tárnoki (Budapest, Hungary), Chair to be confirmed

**Late Breaking Abstract - Artificial intelligence-based dec—ision 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 Scharr (Hannover, Germany), Jonathan Ehming, Cornelia Schaefer-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 Mooij - 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

Alexandre Coimbra (South San Francisco, United States), Neha Anegondi, Yixuan Zou, Xuefeng Hou, Mohammadreza Negahdar, Dorothy Cheung, Paula Belloni, Alex De Crespiigny

A deep learning algorithm for predicting disease progression in idiopathic pulmonary fibrosis

Simon Walsh (London, United Kingdom), Yingying Fang, Federico Felder, Guang Yang, John Mackintosh, Lucio Calandriello, Mario Silva, Wendy Cooper, Ian Glaspole, Nicole Goh, Christopher Grainge, Peter Hopkins, Yuben Moodley, Navaratnam Vidy, 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 Calandriello, Mario Silva, Ian Glaspole, Nicole Goh, Wendy Cooper, Christopher Grainge, Peter Hopkins, Yuben Moodley, Navaratnam Vidy, Paul Reynolds, Athol Wells, Tamera Corte, Simon Walsh

Comparison of parenchyma density scoring in RA-ILD vs IPF and iNSIP

Bálint Ács (Székesfehérvár, Hungary), Miklós Zsiray, Diana Solymosi, Réka Gajdócsi, Tünde Harkó, Vivien Leskó-Jancsó, Anna Kerpel-Fronius

Endobronchial polarization sensitive optical coherence tomography for airway wall imaging

Sofi Vassileva (Amsterdam, Netherlands), Pieta C. Wijisman, Tatiana Soldati, Margherita Vaselli, Annika W.M. Goosenberg, Daniel M. De Bruin, Johannes F. De Boer, Jouke T. Annema, Peter I. Bonta

Towards precision medicine in COPD: Bioradiomic SPECT-CT quantification of active lung inflammation

Benjamin Welham (Whitchurch, United Kingdom), Michael Bennett, Kristoffer Otridge, Matthew Guy, Clint Zvavanne, 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, Madhewsha Rao, Graham Norquay, Neil Stewart, James Grist, Kher Lik Ng, Amanda Goodwin, Jonathan Brooke, Galina Pavlovskaya, Iain Stewart, Andrew Swift, Smitha Rajaram, Phil Molyneaux, Kevin Johnson, Joseph Jacob, Fergus Gleeson, Ian Half, Thomas Meersmann, Ling-Pei Ho, A A Roger Thompson, Gisli Jenkins, Jim Wild

Discussion and Q&A

All Speakers
Molecular diagnostic resistance patterns in the BALF of hospitalised patients with pneumonia
Andrei Darie (Basel, Switzerland), Nina Khanna, Kathleen Jahn, Mirjam Osthoff, Desiree Schumann, Hans Hirsch, Martin Brutsche, Leticia Grize, Michael Tamm, Daiana Stolz

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 Rodriguez-Baño, Isabel Morales Barroso, Francesco Blasi, Bruno François, Rachel Froget, Manuel Recio Rufián, Angelo Corsico, Brigida Quindos, Kelly D Johnson, Thomas Weiss, Madelyn Ruggieri, Marc Bonten, Cristina Prat-Aymerich

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
All Speakers

Yellow 1+2+3Session 47214:15 - 15:30
Oral presentation: Best abstracts in behavioural science and health psychology

Disease(s) : Sleep and breathing disorders, Airway diseases, Interstitial lung diseases, Thoracic oncology
Method(s) : Epidemiology, Public health, General respiratory patient care, Palliative care, Physiology, Pulmonary rehabilitation
Tag(s) : Clinical

Chairs : Lisa Jane Brighton (London, United Kingdom), Andreas Von Leupoldt (Leuven, Belgium)

Neural gating of respiratory sensations during exercise-induced dyspnea
Lucas Vanden Bossche (Leuven, Belgium), Michele R. Schaeffer, Mingqi Zhao, Dante Mantini, Wim Janssens, Thierry Troosters, Daniel Langer, Andreas Von Leupoldt

Mechanism of dyspnea relief from menthol inhalation in healthy adults during loaded breathing trials
Michele Schaeffer (Leuven, Belgium), Lucas Vanden Bossche, Valentina Jelinčić, Kristin Verbeke, Daniel Langer, Andreas Von Leupoldt

Greater awareness of errors in patients with COPD
Ysys Denutte (Leuven, Belgium), Alicia Gonsalves, Thomas Reijnders, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

Characteristics of people with COPD associated with emotions of shame and guilt
Sara Lundell (Umea, Sweden), Sara Kalucza, Anna-Britt Coc, Senada Hajdarevic, Anders Blomberg

Improving performance in Chronic Obstructive Pulmonary Disease (COPD) through expectations: a Randomized Crossover Study
Eleonora Volpato (Milano (MI), Italy), Paolo Banfi, Elena Compalati, Francesco Pagnini

Physical inactivity and personality change in people with chronic respiratory diseases
Sébastien Kuss (Lodève, France), Nelly Héraud, Brice Canada

Psychosocial factors associated with short-term CPAP usage
Leanne Kaye (San Diego, United States), Vy Vuong, Adam Benjafield, Priyanshu Gupta, Meredith Barrett
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)
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

Chairs: Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)

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

15:30 Case 1 incl. panel discussion and Q&A - Author: J. R. Macedo Pacheco (Portugal)
   Marlies S. Wijsenbeek (Rotterdam, Netherlands)

15:52 Case 2 incl. panel discussion and Q&A - Author: P. Sharma (India)
   Michael Kreuter (Heidelberg, Germany)

16:14 Case 3 incl. panel discussion and Q&A - Author: L. Benuzzi (Italy)
   Marlies S. Wijsenbeek (Rotterdam, Netherlands)

16:36 Case 4 incl. panel discussion and Q&A - Author: R. G. Girolamo (Italy)
   Michael Kreuter (Heidelberg, Germany)

Silver Session 476 15:30 - 17:00

Journal session: The best of the European Respiratory Journal


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
   All Speakers

Coral 4+5 Session 477 15:30 - 17:00

Guidelines session: Palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease / The use of "as-needed" inhaled corticosteroids/formoterol in mild asthma

1) European Respiratory Society clinical practice guideline on palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease
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.
### Session 478

**Symposium: Treatment of early stage, technically resectable mesothelioma**

**Aims:** to review different international guidelines on treatment of mesothelioma; to present inconsistencies in the current set of guidelines; to help delegates understand the use of these guidelines in optimal patient care.

**Tag(s):** Clinical

**Chairs:** Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>15:30</td>
<td><strong>What is the early stage mesothelioma?</strong></td>
<td>Speaker to be confirmed</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Radical surgery should be offered to patients with early stage, technically resectable mesothelioma</strong></td>
<td>Nuria Novoa Valentin (Majadahonda, Spain)</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>Radical surgery should not be offered to patients with early stage, technically resectable mesothelioma</strong></td>
<td>Najib M. Rahman (ABINGDON, United Kingdom)</td>
</tr>
<tr>
<td>16:15</td>
<td><strong>A look into the future: active trials and research strategies for early-stage mesothelioma</strong></td>
<td>Kevin Blyth (Glasgow (Glasgow), United Kingdom)</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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### Session 479

**Symposium: Controversies on ground glass opacities of the lung**

**Ground glass opacities and lung cancer**

**Aims:** to discuss lung ground glass opacity (GGO) and to emphasise the challenges that thoracic surgeons, physicians, pneumologists and thoracic oncologists are now facing and will face in future regarding GGOs after the COVID-19 pandemic.

**Disease(s):** Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology  Public health  Surgery

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs:** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15:30</td>
<td><strong>Is GGO a real entity?</strong></td>
<td>William Travis (New York, United States)</td>
</tr>
</tbody>
</table>

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

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

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

**Chairs:** Florence Schleich (Liège, Belgium), Chair to be confirmed

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15:30</td>
<td><strong>Guidance towards timely initiation of palliative care for people with COPD or ILD</strong></td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Patient and caregiver’s perspectives</strong></td>
<td>Albert Devillers (, Belgium), Chantal van den Dungen (Juprell, Belgium)</td>
</tr>
<tr>
<td>15:50</td>
<td><strong>Palliative care for people with COPD or ILD: the perspective of the patient and informal caregiver</strong></td>
<td>Alda Sofia Pires De Dias Marques (Aveiro, Portugal)</td>
</tr>
<tr>
<td>16:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>16:20</td>
<td><strong>Which is better, as-needed ICS/formoterol alone or regular low-dose ICS maintenance treatment?</strong></td>
<td>Richard Beasley (Wellington, New Zealand)</td>
</tr>
<tr>
<td>16:35</td>
<td><strong>Which is better, as-needed ICS/formoterol alone or as-needed SABA plus maintenance?</strong></td>
<td>Ioana Agache (Brasov (Brasov), Romania)</td>
</tr>
<tr>
<td>16:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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**Coral 3**

**Session 478**  **15:30 - 17:00**

**Coral 1**

**Session 479**  **15:30 - 17:00**
Clinical cases: Lungs on fire: respiratory critical care/sleep and breathing disorders

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

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

**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Case Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: C. Tomsa (Italy)</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
</tr>
<tr>
<td>15:52</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: J. Riera Del Brio (Spain)</td>
<td>Christoph Fisser (Regensburg, Germany)</td>
</tr>
<tr>
<td>16:14</td>
<td>Case 3 incl. panel discussion and Q&amp;A - Author: R. Severin (United States of America)</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
</tr>
<tr>
<td>16:36</td>
<td>Case 4 incl. panel discussion and Q&amp;A - Author: T. Said Ahmed (United States of America)</td>
<td>Christoph Fisser (Regensburg, Germany)</td>
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</tbody>
</table>

**Mini symposium: Next generation evidence-based decision-making in respiratory medicine**

**ERS/Respiratory Effectiveness Group joint session**

**Aims:** To explore the contribution of data from real-life research studies to decision-making processes including guidelines development; to emphasize the complementarity of real-life research and randomized controlled trials for the assessment of interventions; to discuss the yield of m-Health tools and the contribution and challenges of registries.

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist

**Chairs:** Sinthia Bosnic-Anticevich (Strathfield (NSW), Australia), Nicole Beydon (Paris, France)

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Author/Authors</th>
</tr>
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<tbody>
<tr>
<td>15:30</td>
<td>Real-world” evidence vs randomized controlled trials: friends or foes?</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
</tr>
<tr>
<td>15:45</td>
<td>The future of evidence generation using mHealth tools</td>
<td>Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>16:00</td>
<td>Building registries to inform decision-making: potential and challenges</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>16:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**INDUSTRY SKILLS LAB WORKSHOP**

**SEE PAGE 1**
Red 1+2  

Session 483  
15:45 - 17:00

Science slam: Science slam

Aims: Four scientists will present their research in an entertaining way for a non-specialist audience. The audience will elect, by means of electronic voting, the 2023 Science Slam winner.

Tag(s): Translational

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

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

15:45

Introduction
All Speakers

15:50

Vote, presentation and interview of the winner
All Speakers

Brown 3  

Session 484  
15:45 - 17:00

Oral presentation: Biomarker monitoring and severity classification in chronic obstructive pulmonary disease

Disease(s): Airway diseases

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

Tag(s): Clinical, Translational

Chairs: Maarten van den Berge (Groningen, Netherlands)

OA4929 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

OA4930 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

OA4931 Fibrinogen as a biomarker of cardiovascular risk in COPD
Mairi MacLeod (London, United Kingdom), Andrew Ritchie, Dexter Wiseman, Lydia Finney, Aaron Braddy-Green, Hassan Shahbakhhti, Ralph Lopez, Jordina Mah, James P Allinson, Gavin C Donaldson, Jadwiga A Wedzicha

OA4932 Do distinct phenotypes of heart failure coexisting with COPD influence endothelial function?
Renata Gonçalves Mendes (Sao Carlos (SP), Brazil), Viviane Castello-Simões, Cäsia Da Luz Goulart, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nathany Souza Schafauer, Rodrigo Polaquini Simões, Meliza Goi Roscani, Audrey Borghi-Silva

OA4933 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

OA4934 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

OA4935 Accuracy of the CAPTURE questionnaire for population-screening for COPD
Lancelot Pinto (Montréal (QC), Canada), Thakrar Dhara, Chawhan Ashwini

OA4936 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, Jorgen Vestbo, Hana Müllerová, Alvar Agusti

OA4937 FEV1/FVC severity stages for chronic obstructive pulmonary disease
Surya Bhatt (Birmingham, United States), Arie Nakhmani, Frank Sciurba, Matthew Strand, Edwin Silverman, Sandeep Bodduluri
### Session 485 15:45 - 17:00

**Blue 1+2**

**Oral presentation: Lung structure and function across the lifespan**

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

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

**Tag(s):** Clinical

**Chairs:** Rory Morty (Heidelberg, Germany), Anne Greenough (London, United Kingdom)

<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>OA4940</td>
<td>Late Breaking Abstract - Differences in autophagy marker levels at birth in preterm vs. term infants</td>
<td>Noëmi Künzle (Basel, Switzerland), Olga Gorlanova, Andrea Marten, Loretta Müller, Pawan Sharma, Martin Rööśli, Pablo Sinues, David Schürmann, Céline Rüttenmann, Carla Rebeca Da Silva Sena, Uri Nahum, Jakob Usennam, Ruth Steinberg, Sophie Yammine, Sven Schulzke, Philipp Latzin, Urs Frey</td>
</tr>
<tr>
<td>OA4941</td>
<td>Late Breaking Abstract - Prenatal exposure to air pollution affects newborns’ autophagy, senescence and remodelling proteins</td>
<td>Olga Gorlanova (Bättwil, Switzerland), Heide Oller, Uri Nahum, Noemi Künzle, Loretta Müller, Andrea Marten, Céline Rüttenmann, Danièle Vienne, Kees De Hoogh, David Schürmann, Carla Rebeca Da Silva Sena, Martin Rööśli, Pablo Sinues, Sven Schulzke, Ruth Steinberg, Jakob Usennam, Pawan Sharma, Urs Frey</td>
</tr>
<tr>
<td>OA4942</td>
<td>Morphomolecular analysis of the capillary network in alveolar capillary dysplasia</td>
<td>Jan-Christopher Kamp (Hannover, Germany), Lavinia Neubert, Jonas C. Schupp, Christoph Wrede, Florian Laenger, Tobias Welte, Nicolaus Schwerk, Jakob Reichmann, Tim Salditt, Anke K. Bergmann, Sandra Von Hardenberg, Hans H. Kreipe, Karen M. Olsson, Jan Fuge, Da-Hee Park, Marius M. Hoeper, Danny D. Jonigk, Lars Knudsen, Mark P. Kuehnel</td>
</tr>
<tr>
<td>OA4943</td>
<td>Bronchiolitis in infancy is associated with irreversible obstruction in early adulthood.</td>
<td>Sanna Saarikallio (Kangasala, Finland), Riikka Riikonen, Antti Tikkakoski, Ėero Laukhonen</td>
</tr>
<tr>
<td>OA4944</td>
<td>Acinar dysplasia in a full term newborn with a NKX2.1 variation</td>
<td>Yohan SOREZE (Paris, France), Nadia Nathan, Julien Jegard, Erik Hervieux, Pauline Clermidi, Chiara Sileo, Camille Louvrier, Marie Legendre, Aurore Coulomb L’Herminé</td>
</tr>
<tr>
<td>OA4945</td>
<td>A cigarette smoke exposure model using lung tissues to study emphysema</td>
<td>Venkataramana Sidhaye (Baltimore, United States), Ara Wally, Anuj Lagowala, Kai Wilmsen, Bonnie Yeung-Luk, Matthew Luk, Baishakhi Ghosh, Laine Feller, Ethan Tieng, Ethan Sherman, Nisha Upadaya, Dayan Horsey, Vaishnavi Karanam</td>
</tr>
<tr>
<td>OA4946</td>
<td>The upper respiratory tract microbiota across the human lifespan: a nationwide Dutch population study.</td>
<td>Mari-Lee Odendaal (The Netherlands, Netherlands), Wouter De Steenhuisen Piter, Eelco Franz, Lidwien Smit, Debby Bogaert, Thijs Bosch</td>
</tr>
<tr>
<td>OA4947</td>
<td>Transcriptomic analysis of the developing rabbit’s lung: implication of premature birth and post-natal oxygen exposure</td>
<td>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 Cicciarrea, Matteo Zoboli, Gino Villetti, Maurizio Civelli, Francesca Ricci</td>
</tr>
<tr>
<td>OA4948</td>
<td>In neonatal βENaC-transgenic mice CF-like lung disease causes a dilatation of the conducting airways which increases until adulthood</td>
<td>Sanja Blaskovic (Bern, Switzerland), Pinelopi Anagnostopoulos, Florian Kronig, Elena Borissova, Dominik Schittny, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schlepütz, Marco Stampani, Johannes C. Schittny</td>
</tr>
<tr>
<td>OA4949</td>
<td>Maternal obesity increases reflex bronchoconstriction in adult offspring in a diverse outbred mouse model</td>
<td>Zhenying Nie (Portland, United States), Kayla Williams, Allison Fryer, David Jacoby, Alina Maloyan</td>
</tr>
<tr>
<td>OA4950</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>
Late Breaking Abstract - Systemic Determinants of Exercise Intolerance in Patients with Fibrosing Interstitial Lung Disease and a Severely Impaired DLCO

OA4951 J. Alberto Neder (Kingston (ON), Canada), Reginald M. Smyth, Matthew D. James, Sandra G. Vincent, Kathryn M. Milne, Mathieu Marillier, Nicole J. Domnik, Christopher M. Parker, Juan P. De-Torres, Onofre Moran-Mendoza, Devin B. Phillips, Denis E. O'Donnell

OA4952 Age, sex and lung volume dependence of 129Xe MRI gas exchange metrics
Guilhem Collier (Sheffield (South Yorkshire), United Kingdom), Laura Saunders, L J Smith, Kher Ng, James Grist, A J Swift, Helen Davies, Alexander Horsley, A A R Thompson, Emily Fraser, Fergus Gleeson, J M Wild

OA4953 Ventilation heterogeneity from X-ray Velocimetry predicts COPD severity
Sarah Raju (Baltimore, United States), Kyle Grealis, Ernesto Gonzalez, Kinjal Nakrani, Tamas Otvas, Jason Kirkness, Andreas Fouras, Robert Wise, Naresh Punjabi, Trishul Siddharthan

OA4954 Longitudinal change in lung physiology and 129Xe MRI over 1 year in patients with asthma and/or COPD
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Laure Smith, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, David Capener, Jody Bray, Demi Jakymelen, Laura Saunders, Joshua Astley, Bilal Tahir, Ryan Munro, Olly Rodgers, Jimmy Ball, Paul Hughes, Smitha Rajaram, Andy Swift, Neil Stewart, Graham Norquay, Martin Brook, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

OA4955 Phenotypes of functional CT imagining predict clinical outcome in ARDS patients
Mehdi Shekarnabi (Villeurbanne, France), Florian Sigaud, Maxime Gailet, Alicia Guillien, Emmanuel Roux, Touria Ahouari, Edouardo Davila, Loïc Boussel, Gilbert Ferretti, Hodane Yonis, Mehdi Mezidi, William Danjou, Alwin Bazzani, François Dhelfi, Laure Follit, Mehdi Girard, Valérie Siroix, Laurent Bitker, Nicolas Terzi, Maciej Orkisz, Jean-Christophe Richard, Sam Bayat

OA4956 Hyperpolarised helium MRI in direct and indirect asthmatic airway challenge
Chuan Tai Foo (Victoria, Australia), Kris Nilsen, Gary Cowin, Bruce Thompson, Francis Thien

OA4957 Fractal dimension analysis to assess ventilation heterogeneity associated with Long-COVID breathlessness
Minsuok Kim (Loughborough, United Kingdom), Jeongeun Hwang, James T. Grist, Gabriele Abueid, Soo Ho Yoon, Vincente Grau, Emily Fraser, Fergus V. Gleeson

OA4958 Ventilation biomarkers derived by micro-CT (µCT) quantify regional fibrosis progression and response to therapy in mouse
Francesca Pennati (Milano (MI), Italy), Erica Ferrini, Nicola Sverzellati, Davide Buseghin, Gino Villette, Franco Fabio Stellari, Andrea Aliverti

OA4959 COVID-19 associated ARDS: quantitative CT study from acute phase to 1-year follow-up
Chiara Milano (Monza , Italy), Bianca Corrò, Silvia Pagani, Stefania Raschi, Pierfranco Usai, Cristiano Bonacina, Roberta Cattaneo, Monica Bernareggi, Chiara Melacini, Serena Bencini, Martina Piluso, Francesca D'Arcangelo, Luca Parachini, Riccardo Ripamonti, Roberta Ciciri, Angela Brancaforte, Marcello Intotero, Paolo Scarpazza

OA4960 Chest CT scan Pulmonary sequelae in ICU COVID-19 survivors
Amani Kacem (Sousse, Tunisia), Haifa Sfar, Safa Ben Mansour, Yosri Ben Ali, Dhouha Ben Braiek, Hend Zorgati, Oussama Saadaoui, Rahma Ben Jazia, Anis Maatallah, Abderrahmen Daadoucha, Jihene Ayachi

OA4961 Discussion and Q&A
All Speakers

Yellow 1+2+3  Session 487  15:45 - 17:00

Oral presentation: New mechanisms and treatment strategies related to viral exposures

OA4962 Late Breaking Abstract - Age and vitamin D influence airway epithelial cells response to SARS-CoV-2 infection
Francesca Sposito (Liverpool, United Kingdom), Shaun Pennington, Christopher David, Jack Duggan, Sarah Northey, Giancarlo Biagini, Neill Liptrott, Amandine Charras, Paul Mcmamara, 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

Repetitive rhinovirus infection primes for amplified IL-13 induced airway epithelial responses
Huan Ma (Borstel, Germany), Dragninja Kovacevic, Holger Heine, Susanne Krauss-Etschmann

Clustering of bronchial epithelial immune response to a viral mimic identifies clinically recognizable viral exacerbation profiles.
Laurits Frossing (Copenhagen V, Denmark), Juan-Jose Nieto-Fontarigo, Samuel Carps, Sangeetha Ramu, Mandy Menzel, Morten Hvidfeldt, Ditte K. Klein, Asger Sverrild, Linda Uller, Celeste Porsbjerg

Comparison of rhinovirus A16 and C15 induced transcriptomic profiles in airway epithelia
Ben Kam San Wong (Hong Kong, Hong Kong), Yan Wang, Joseph G S Tsn, Louisa L Y Chan, Renee WY Chan

Airway autoimmunity in asthma is associated with an aggravated inflammatory response to viral stimulation of the bronchial epithelium
Lise Lotte Eriksen (Copenhagen NV, Denmark), Samuel Carps, Laurits Frossing, 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, Salmon Siddiqui

Poster session: Precision rehabilitation

Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory critical care, Sleep and breathing disorders, Pulmonary vascular diseases
Method(s) : Pulmonary rehabilitation, General respiratory patient care, Public health, Pulmonary function testing
Tag(s) : Clinical
Chairs : Beatriz Abascal Bolado (Santander, Spain), Chair to be confirmed

Development of an exercise adherence prediction model; a prospective cohort study
Ellen Rieke (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 Ostrovskyy, 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 Wirges, Thiago Pinto, Eloise Arruda, Rafaella Xavier, Patricia Freitas, Celso Carvalho

The efficacy of remote pulmonary rehabilitation in the management of interstitial lung disease
Michael McGee-trick (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 Poledniczek, Robin Wilithofer, 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, Gaeille Tercé, Catherine Vioacre, 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 Grošelj, 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 (Istanbul, Turkey), Ali Enes Yasar, Gul Deniz Yilmaz Yelvar, Yasemin Buran Cirak, Nurgul 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 Tahira, Namaz 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
PA4993  Lateral decubitus CT: an alternative technique to monitor structural lung disease in preschool children with cystic fibrosis  
Yuxin Chen (Rotterdam, Netherlands), Rikke Mulvad Sandvik, Lotte Borgwardt, Pierluigi Ciet, Kim Gjerum Nielsen, Harm A. W. M. Tiddens

PA4994  Correlation of lung function using forced oscillation technique with spirometry in children with cystic fibrosis (CF)  
Sachin Singh (Rajkot, Gujarat, India), Meenu Singh, Joseph Mathew

PA4995  Role of nursing in the detection of allelic variants of the gene alpha-1-antitrypsin in patients with cystic fibrosis.  
Rocio Reinoso Arija (Sevilla, Spain), Pedro Francisco Garcia Tamayo, Maria Rosario Ruiz-Serrano De La Espada, Maria Dolores Nuñez Oller, 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 Fernandez, Jose Luis Lopez-Campos Bodineau

PA4996  SPLUNC1 in spu tum of children with cystic fibrosis pulmonary exacerbations  
Elad Ben-Meir (Shoham, Israel), Lucy Perrem, Felix Ratjen, Hartmut Grasemann

PA4997  Physical activity, six-minute-walking test, and quality of life in people with cystic fibrosis  
Elpis Hatzagiorgou (Panorama, Thessaloniki, Greece), John Kouslis, Elisavet-Anna Chrysochoou, Evangelia Kouidi, John Tsanakas

PA4998  Project Fizzyo: Identification of optimal pressure-length breath profiles for airway clearance techniques in children with cystic fibrosis  
Nicole Filipow (London, United Kingdom), Emma Raywood, Sanja Stanojevic, Gwyneth Davies, Helen Douglas, Harriet Shannon, Nicky Murray, Rachel O’Connor, Eleanor Main

PA4999  Parental socioeconomic status and lung function in offspring with cystic fibrosis in Sweden- a register-based cohort study  
Emma Caffrey Osvald (Stockholm, Sweden), Cecilia Lundholm, Samuel Arthur Rhedin, Awad I Smew, Bronwyn K Brew, Isabelle De Monestrol, Catarina Almqvist

PA5000  Assessment of knowledge of general practitioners about Cystic fibrosis in Multan, Pakistan  
Abdul Mannan Mustafa (Multan, Pakistan), Ghulam Mustafa

PA5001  Respiratory microbiota profiles are associated with respiratory health in infants with cystic fibrosis  
Ruth Steinberg (Bern, Switzerland), Philipp Latzin, Markus Hilty, Kathryn Ramsey, Marc Alexander Oestreich, Bettina Frauchiger, Elisabeth Kieninger, Insa Korten, Bild Bild Study Group, Scild Scild Study Group

PA5002  Microbiological status predicts lung function decline in cystic fibrosis  
Elpis Hatzagiorgou (Panorama, Thessaloniki, Greece), Marina Kotzamani, Persefoni Talimtzi, Maria Tsolia, Elisavet-Anna Chrysochoou

PA5003  Exploring the attitudes and knowledge of the caregivers of children with cystic fibrosis and primary ciliary dyskinesia regarding COVID-19 vaccination  
Pinar Ergenekon (Istanbul, Turkey), Cansu Yilmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Merve Selcuk, Seyda Karabulut, Neval Metin Cakar, Eral Erdem Eralp, Yasemin Goldemir, Bulent Karadag

PA5004  Airway colonisation with Aspergillus fumigatus and its impact on the CF microbiota  
Deepa Patel (Leicester, United Kingdom), Paul Seear, Catherine Pashley, Erol Galliard

PA5005  Comparison of the corrected N2-lung clearance index with SF6-lung clearance index and magnetic resonance imaging  
Evad Steinke (Berlin, Germany), Mark O. Wielputz, Cornelia Joachim, Marcus A. Mall, Mirjam Stahl

PA5006  Airway infections as risk factors for Pseudomonas aeruginosa acquisition and chronic colonisation in children with cystic fibrosis  
Harriet Corvol (Paris, France), Julie Mesinele, Manon Ruffin, Loic Guillot, Pierre-Yves Boelle

PA5007  Identifying Knowledge Gaps by Using Adapted CF R.I.S.E in a Low Resource Setting  
Merve Selcuk (Istanbul, Turkey), Yasemin Gökdemir, Eral Erdem Eralp, Almala Pinar Ergenekon, Cansu Yılmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Ozge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag

PA5008  Transition Program as a Quality Improvement Project: Adaptation of the CF R.I.S.E. in a center with Limited Resources  
Yasemin Gökdemir (Istanbul, Turkey), Merve Selcuk, Eral Erdem Eralp, Almala Pinar Ergenekon, Cansu Yılmaz Yegit, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Seyda Karabulut, Burcu Uzunoglu, Gamze Tastan, Damla Kocamaz, Ozge Kenis Coskun, Ilknur Gorgun, Randy Messier, Pamela Mertz, Fazilet Karakoc, Bulent Karadag
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 Alexitımıa Level in Cystıc Fıbrosıs Patıents
Aslı İmran Yılmaz (konya, Turkey), FATİH ERCAN, Semih Erden, Nail Bilgitay, Sevgi Pekcan, Gökçen Ünal, Hanife Tuğçe Çağlar

Evaluation of respiratory function at 6 years of age in patients with cystic fibrosis with frequent pulmonary exacerbations in the first 2 years of life

Endotyping and risk-assessing childhood asthma using national registries
Kjell Erik Julius Håkansson (København N, Denmark), Silvia Cabrera Guerrero, Vibeke Backer, Charlotte Suppli Ulrik, Deepa Rastogi

Association of multiple factors with childhood asthma and allergic diseases: a latent class analysis
Teresa To (Toronto (ON), Canada), Cornelia M. Borkhoff, Laura N. Anderson, Catherine Birken, Sharon D. Dell, Magdalena Janus, Jonathon L. Maguire, Theo J. Moraes, Patricia C. Parkin, Padmaja Subbarao, Anne Van Dam, Beverly Guttman, Emilie Terebessy, Kimball Zhang, Jinquin Zhu

Maternal dietary inflammatory potential and allergic and respiratory multimorbidity in children
Rosalie Delvert (Villejuif, France), Mael Ghosal, Marie-Aline Charles, Isabelle Annesi-Maesano, Chantal Raherison-Semjen, Raphaëlle Varraso, Blandine De Lauzon-Guillain, Annabelle Bédard

Persistence of wheeze in a clinical cohort depends on trigger factors
Taysiya 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 (Nicosia, Cyprus), Emmanouil Galanakis, Paraskevi Kinni, Eleni Michaelidou, Antonis Michanikou, Helen Demetriou, Maria G. Kakkoura, Pinelopi Anagnostopoulou, Konstantinos Pitsios, Stafania I. Papatheodorou, Petros Koutrakis, Panayiotis K. Yiallouros

Panayiotis Kouis (Nicosia, Cyprus), Marios Lemonaris, Elea Xenophontos, 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
PA5021 COVID-19 vaccinations and adverse outcomes among youth and young adults with asthma and allergic diseases
Kimball Zhang (Toronto, Canada), Emilie Terebessy, Jingqin Zhu, Catherine Birken, Cornelia Borkhoff, Andrea Gershon, Theo Moraes, Tetyana Kendzerska, Smita Pakhale, Teresa To

PA5022 A revolving door?: continuity of care among children with asthma after discharge from a children’s hospital in Ontario, Canada
Kimball Zhang (Toronto, Canada), Emilie Terebessy, Jingqin Zhu, Teresa To

PA5023 Association of infant tidal breathing with later lung function in preterm individuals
Yasmin Salem (Bern, Switzerland), C. Corin Willers, Anne-Christianne Kentgens, Julian Jakob, Florian Wyler, Urs Frey, Philipp Latzin, Sophie Yammine

PA5024 Diagnosis in children with prolonged or recurrent cough
Maria Christina Mallet (Rose-Hill, Mauritius), Annina Elmiger, Tayisiya Krasnova, Carmen De Jong, Barbara Kern, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Jakob Ústmann, Eva S L Pedersen, Claudia E Kuehni

PA5025 Lung function in young adulthood in relation to moderate-to-late preterm birth
Björn Lundberg (Stockholm, Sweden), Simon Kebede Merid, Petra Um-Bergström, Gang Wang, Anna Bergström, Sandra Ekström, Inger Kull, Erik Melén, Jenny Hallberg

PA5026 Antibiotics in pregnancy influence nasal microbiome and respiratory morbidity in infancy
Céline Rüttimann (Basel, Switzerland), Annika Nissen-Kratzert, Nadja Mostacci, Noëmi Küntze, Andrea Marten, Amanda Gisler, Katharina Bracher, Insa Korten, Sophie Yammine, Ruth Steinberg, Sven Schulzke, Philipp Latzin, Markus Hilty, Urs Frey, Olga Gorlanova

PA5027 Clinical implications of dysanaptic obstruction during childhood and adolescence
Hans Jacob Koofoed (Groningen, Netherlands), Gang Wang, Ulrike Gehring, Sandra Ekström, Inger Kull, Anna Bergström, Gerard H. Koppelman, Erik Melén, Judith M. Vonk, Jenny Hallberg

PA5028 Exploratory analyses of inflammatory plasma proteins and post-exercise airway responses in randomly selected adolescents
Karin Ersson (Uppsala, Sweden), Kjell Alving, Christer Janson, Henrik Johansson, Andrei Malinovschi

PA5029 A retrospective study of perinatal respiratory outcomes in pregnancy with Diabetes Mellitus
Then Moli Othayamoorthy (Selangor, Malaysia), Asiah Kassim, Abdul Halim, Fatimah Az Zaharah Sulaiman, Ching Hai Lee, Ker Yang Chua, Udhaya Moorthy, Karuthan Chinna

PA5030 Comorbidity of allergic diseases and type 1 diabetes – using genetically informative methods
Awad I. Smew (Stockholm, Sweden), Tong Gong, Ralf Kuja-Halokka, Lars Sävendahl, Paul Lichtenstein, Bronwyn K. Brew, Catarina Almqvist

PA5031 Pulmonary evaluation of children with respiratory symptoms and post-COVID-19 condition
Einat Shmueli (Hod Hasharon, Israel), Ophir Bar-On, Meir Mei-Zahav, Patrick Stafler, Hagit Levine, Guy Steuer, Ben Amir, Gabriel Chodick, Dario Prais, Liat Ashkenazi-Hoffnung

PA5032 Frequency of common respiratory infections in children before and during the COVID-19 pandemic
Ronny Makhoul (Bern, Switzerland), Cristina Ardura, Eva S L Pedersen, Nicolas Regamey, Claudia E Kuehni

PS-12 in poster area Session 492 16:00 - 17:30
Poster session: Airway clearance, physical activity and exercise in children and adults with respiratory disorders

Disease(s) : Pulmonary vascular diseases, Respiratory critical care, Airway diseases, Interstitial lung diseases, Sleep and breathing disorders
Method(s) : General respiratory patient care, Physiology, Pulmonary rehabilitation, Imaging, Public health, Pulmonary function testing, Epidemiology, Respiratory intensive care
Tag(s) : Clinical
Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany), Naciye Vardar Yağlı (Ankara, Turkey)

PA5033 Is it possible to evaluate the relationship between strength and respiratory muscle performance with motor performance in premature newborns in the neonatal period?
Evelim Gomes (São Paulo (SP), Brazil), Debora Anjos, Carolina Camargo, Etiene Carvalho, Dirceu Costa, Eneida Suda

PA5034 Evaluating physiotherapy interventions for infants with bronchiolitis – a survey study
Sonja Andersson Marforio (Hjärup, Sweden), Annika Lundkvist Josenby
Peripheral muscle mass and motor performance is there a relationship in the neonatal period in premature newborns?
Camargo Carolina (São Paulo, Brazil), Debora Anjos, Etienne Carvalho, Eneida Suda, Dirceu Costa, Evelim Gomes

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 Madden-Scott (London, United Kingdom), Neeraj Shah, Karthhika Jayakumar, Laura Weatherley, Lauren Joyce, Georgios Kaltsakas, Nicholas Hart, Patrick Murphy, Leyla Osman

Assessing personalised airway clearance techniques in Primary Ciliary Dyskinesia with 129Xe ventilation MRI
Lynne Schofield (Leeds, United Kingdom), Laurie Smith, Alberto Biancaldi, Avie 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 Kiyani, Gulfer Okumus

Relationship between anaerobic power and exercise capacity in cystic fibrosis with impaired glucose tolerance

Exercise capacity, inflammation, hemodynamic and macrovascular function in children with CF in different genders
Senem Simsek (Ankara, Turkey), Aslıhan Cakmak, Meltem Akgul-Erdal, Yasemin Kartal, Murat Timur Budak, Suna Sabuncuoglu, Nagehan Emiralioglu, Elmas Ebhu Gunes-Yalcin, Deniz Inal-Ince

Impaired muscle oxygenation, exercise capacity, and activities of daily living in primary ciliary dyskinesia with inspiratory muscle weakness
Hazel Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Aslıhan Cakmak, Naciye Vardar Yaglı, Melda Sağlam, Ebhu Calik Kutukcu, Ugur Ozcelik

Inspiratory muscle strength is an independent predictor for six-minute walk distance in primary ciliary dyskinesia
Hazel Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Aslıhan Cakmak, Melda Sağlam, Naciye Vardar Yaglı, Ebhu Calik Kutukcu, Ugur Ozcelik

Determinants of daily steps in people with interstitial lung disease
Ana Sofia Brites Grave (Alcobaça, Portugal), Cátia Paixão, Joana Antão, Francisca Teixeira Lopes, Vânia Fernandes, Maria Aurora Mendes, António Mesquita Montes, Alda Marques

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 Alvarelhã

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
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 Motoflea, Alina Maran, Corina Maria Mocan, Ovidiu Fira-Mladinescu

Is there correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in COVID-19 survivors?
Khouloud Kchaou (Sfax, Tunisia), Soumaya Khaldi, Balsam Barkous, Chaima Brik, Sirine Jamli, Saloua Ben Khamsa Jameeddine

Does diffusion ability of lungs return to normal after COVID-19?
Nataliaa Habshyde (Dnipro, Ukraine), Mariia Krykhtina, Liudmyla Konopkina, Tetyana Pertseva, Larysa Botvinikova

Comparison of severity of Covid infection in staff before and after vaccination.
Bhumika Madhav (Navi Mumbai (Maharashtra), India), Jayalakshmi T.Kutty, Prakash Cherath, Narendra Patil, Prashant Khemani, Vibhasree A V, Gokul Bhate

Increased impairment of cardiopulmonary exercise by bilateral diaphragm dysfunction as compared to unilateral diaphragm dysfunction.
Patrick Jak (Dienem, Netherlands), Bart Boerrigter

Predictive value of CPET in identifying patients with chronic thromboembolic pulmonary hypertension (CTEPH).
Vicky moore (Coventry, United Kingdom), Joanna Shakespeare, Jason Burge, Sarah Shuker, David G Parr

Determination of the anaerobic threshold
Esther de Geus (Den Haag, Netherlands), Mart Van Der Plas

Comparative retrospective data research from 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 McArthar (Edinburgh (Edinburgh), United Kingdom), Shaun Baxter, Kristofor Cuthbert, Jill Macleod

The association of isolated small airways obstruction with cardiorespiratory fitness: A hospital-based study
Ben Knox-Brown (NEWMARKET, United Kingdom), Karl Sylvester, Andre Amaral

Validation of a treadmill protocol for cardiopulmonary exercise testing (CPET) in patients with COPD
Ann-Iren Holstad (Jessheim, Norway), Anita Grongstad, Christine Gudim Karlsen, Trine Stensrud, Anne Helene Edvardsen

Utility of CPET for the investigation of persistent breathlessness in post PE patients
Vicky moore (Coventry, United Kingdom), Joanna Shakespeare, Sarah Shuker, Jason Burge, David G Parr

Ian Cliff (Stoke-on-Trent, United Kingdom), Helen Stone, Naveed Mustfa, Christopher Satur

Biologic or mechanic quality control for cardiopulmonary exercise testing (CPET).
Manon Broekhuijzen - 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, Burkhard Huber, Xavier Jordan, Karin Postma, Anja Raab, Martin Schubert, Martin Brinkhof

Impact of mechanical ventilation on body composition in post-COVID: a cross-sectional study
Alvaro Montañez (Mexico City, Mexico), Mildred Corina de la Concha Duarte, Dulce Gonzalez Islas, Arturo Orea Tejeda, Luz Jiménez Gallardo, Arturo Rodríguez Medina, Priscila Dibnora De La Concha Duarte, Juan Antonio Ramírez Maldonado, Guledani Galván Bautista, Nadia Hernández López, Rocio Sánchez Santillán, Ilse Pérez Garcia, Angelia Jiménez Valentín
Utility of neurophysiological studies in the diagnosis of diaphragmatic paralysis as a cause of dyspnea. Experience in a Spanish hospital.
Ignacio Garrapiz (Huesca, Spain), María Jesús Pablo, Isabel Benavente, Jorge Hurtado, Javier Garrapiz, Joaquín Cegoño, Sandra García, Elena Briz, Luis Borderías Clau

Cardiopulmonary exercise testing (CPET) in post COVID-19 exercise intolerance evaluation
Rita Enríquez (Montijo, Portugal), Susana Clemente, Sílvia 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 Lehnhen, Dina Von Werden

Poster session: Clinical features and advances in the management of tuberculosis

Disease(s): Airway diseases, Pulmonary vascular diseases
Method(s): General respiratory patient care, Epidemiology, Public health, Imaging, Cell and molecular biology, Endoscopy and interventional pulmonology, Pulmonary function testing
Tag(s): Clinical

Chairs: Inês Tavares Ladeira (Vila Nova de Gaia, Portugal), Chair to be confirmed

Late Breaking Abstract - Drug-resistant tuberculosis: pilot whole genome sequencing of clinical isolates from TB patients in Kazakhstan
Ulan Kozhamkulov (Astana, Kazakhstan), Asset Daniyarov, Ainur Akhmetova, Saule Rakhimova, Zhannur Abilova, Ainur Akilzhanova

Renal amyloidosis in a patient with pulmonary tuberculosis
Sabarinath Ravichandar (Chennai, India)

Clinico-microbiological profile and treatment outcomes in patients with isoniazid monoresistant tuberculosis in South India
Venkata Prasanna M (puducherry, India), Muthuraj M, Vimal Raj R, Govindaranjan S, Pajaniwel R

The modifying effect of comorbidity on the detection and treatment outcomes of tuberculosis
Iryna Makoida (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Kostitska, Olha Molodovets, Olha Melnik-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 Maazaoui, Chirine Moussa, Amany Touil, Sonia Hbibech, Soumaya Ben Saad, Hajer Racil, Fatma Tritar, Sonia Maalej, Nawa Chaouech

Atypical presentations and challenges in the upper respiratory tract tuberculosis
Najla Bahloul (Sfax, Tunisia), Kallel Souha, kherrat 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, Yoshikiko Hoshino

Spinal tuberculosis treated at an East London Hospital
Akhiles 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 Affif

The effect of Covid-19 pandemic on childhood tuberculosis: A Retrospective sectional study
Özge Ulgen (Istanbul, Turkey), Gülay Bilgin, Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi, Yasemin Mocan Çağlar, Begüm Yörük, Saniye Girit
PA5084 Tuberculous meningoencephalitis complicate with mielitis
Olga Adriana Caliman-Sturdza (Suceava, Romania)

PA5085 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

PA5086 Etiology of exudative pleural effusion among adults: differentiating between tuberculous 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, Wanis Ibrahim, Prem Chandra

PA5087 Lung function impairment after completing tuberculosis therapy - preliminary findings of StatinTB/ExtendTB
Sandra Mukasa (Cape Town, South Africa), Karen Wolmarans, Antoneta Mashinyira, Patrick Katoto, Fareda Jakoet-Bassier, Christian Buess, Reto Guler, Gunar Gunther, Friedrich Thienemann

PA5088 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

PA5089 Utility of CT scan in pulmonary tuberculosis disease
mohamed karim darragi (Ariana, Tunisia), Sarra Maazaoui, Yassine Foudhaïli, Olfa Ben Moussa, Amany Touil, Sonia Habibech, Hajer Racil, Nawel Chaouch

PA5090 Ocular Tuberculosis: a challenging condition
Joana Marques Diogo (Sesimbra, Portugal), Carlos Figueiredo, Helena Pires, Júlia Silva, Carlos Monteverde, Dalila Ferreira, Joana Carvalho, Susana Carreira, Teresa Mourato, Luis Coelho

PA5091 The impact of video-supported treatment in the case-management and outcome of tuberculosis
Tatiana Osipov (Chisinau, Republic of Moldova), Alina Malic, Evelina Lesnic, Adriana Niguleanu

PS-15 in poster area Session 495 16:00 - 17:30
Poster session: COVID-19 in specific populations

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases
Method(s): Epidemiology, General respiratory patient care, Physiology, Public health, Respiratory intensive care, Imaging, Pulmonary function testing, Pulmonary rehabilitation
Tag(s): Clinical

Chairs: Aikaterini Dimakou (Agia Paraskeyi, Greece), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

PA5093 Immunosuppressed patients with severe COVID-19 pneumonia: clinical characteristics and outcomes
Edoardo Forin (Barcelona, Spain), Flavia Galli, Francisco Jose Molina Saldarriaga, Anna Motos, Sofia Misuraca, Enric Barbeta, Joan Canseco, Laia Fernandez-Barat, Andrea Catalina Palomeque, Jesus Francisco Bermejo Martin, Ferran Barbé Illa, Antoni Torres

PA5094 Characteristics and outcomes of pregnant women with severe pneumonia related to SARS-CoV-2 admitted to intensive care unit: a retrospective study.
Naim Dhifaoui (Kairouan, Tunisia), Azza Yedes, Sawsen Bourommena, Becem Trabelsi, Chawki Mrazgua, Mechaal Ben Ali

PA5095 The Accuracy of CARB (COVID ASSESSMENT AND REVIEW BOARD) Screening Tool in diagnosing patients with COVID 19 from March 2020 to March 2022 in Silliman Medical Center Foundation Incorporated: A retrospective descriptive cross sectional study
L. Angelique Gene Duran (Dumaguete, Philippines), Dehuel Cuyacot, Brian Joseph Calinawagan, Gamaliel Garcia, John Anthony Tindoc, Hannah Candace Catacutan

PA5096 Clinical profile of COVID patients and predictors of long COVID - South Asian data
Rekha Parameswarri (Kottayam (Kerala), India), Kummnanoor Parameswaran Venugopal, Sukumaran Parackal, Athulya Kumar, Beena Thomas

PA5097 SMOKING AND COVID-19: A COMPLEX INTERACTION
Mariem Chaabane (Tunis, Tunisia), Hajer Racil, Mariem Friha, Sarra Maazaoui, Sonia Habibech, Ameny Touil, Nawel Chaouch

PA5098 Risk of SARS-CoV-2 infection and disease severity among people with bronchiectasis: analysis of three population registries
Residence density and outcome of COVID infection among bronchiectasis patients

The Relation between ACE Gene Polymorphism and the Severity of COVID-19 Infection
Ahmed Abdallah Bayoumy (Ismailia, Egypt), Yara El-Sayed Marei, Hassnna Mohamed Abulazm Nassar, Bassam Mansour, Asmaa Bakeir Hamady

Characteristics of frailty in perimenopausal women with Long COVID-19 syndrome
Laura Lopez Lopez (Granada, Spain), Alba Navas Otero, Araceli Ortiz Rubio, Andrés Calvache Mateo, Irene Cabrera, Irene Torres Sánchez, Marie Carmen Valenza

Comparison of patients hospitalized for COVID-19 in the periods of Delta and Omicron variants dominance in Greece
Vagia Karageorgou (Athens, Greece), Andriana I Papaioanou, Maria Kallieri, Mytro Blizou, Stefanos Lampadakis, Maria Sfika, Antonios Krouskos, Vasileios Papavasileiou, Francesca Strakosha, Kalliopi Theoni Vandorou, Pavlos Siozos, Marina Moustaka Christodoulou, Georgia Kontonasiousi, Vasiliki Apollonatou, Elvira Markella Antonogiannaki, Christos Kyriakopoulos, Christina Aggelopoulou, Christos Chronis, Konstantinos Kostikas, Evangelia Koukiki, Zoi Sotiropoulou, Athanasia Athanasopoulou, Petros Bakakos, Pinelopi Sxini, Emmanouil Alevrakis, Sotirios Poupos, Evangelia Chondrou, Dionisis Tsoukalas, Alexia Chronaioi, George Tsoukalas, Sofia Koukidou, Georgios Hillas, Katerina Dimakou, Konstantinos Roukas, Ilfgenia Nakou, Diamantis Chloros, Evangelia Fouka, Spyros A Papiris, Stelios Loukides

Influence of comorbid pathology on the formation of the post-Covid syndrome
Olena Pidverbetska (Chernivtsi, Ukraine), Liliia Todoriko

COVID-19 in Indian healthcare workers- a case series
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Sekar Rajasekar, Deepa Shankar, Barney Isaac, Balamugesh Thangakumam

Shunt fraction and radiological involvement in Covid-19 related Acute Respiratory Failure
Luca Novelli (Bergamo, Italy), Luca Malandrino, Maurizio Balbi, Federico Raimondi, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberta Trapasso, Roberta Biza, Gianmariano 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, Angelo 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, Maria Jose Corrales, Juan Pablo Cuevas, Daniel Ramos, Constanza Tamblay, Karina Ramirez, Janiele 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 Gonzalez, 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, Naíara Teixeira Chinellato, Viviane Nunes Ferreira Csizmar, Lívia Pimenta Bonifácio, Fernando Bellissimo Rodrigues, Hugo Celso Dutra Souza, Ada Clarece Bastaldi

Nataliia Kravchenko (Dnipro, Ukraine), Olha Cherkasova, Lyubov Korsun, Anastasiia 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 Chaouch
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<td>PA5113</td>
<td><strong>Impact of pneumococcal vaccination in treating elderly patients with hospitalized community-acquired pneumonia</strong></td>
<td>Moonjin Kim (Seoul, Republic of Korea), Seohyun Kim, Tai Joon An, Jeong Uk Lim, Chan Kwon Park, Hyoung Kyu Yoon</td>
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<td>PA5114</td>
<td><strong>Rapid PCR (BIOFIRE)- A paradigm shift in management of pneumonia</strong></td>
<td>Beauty Biswas (West Bengal, India), Amrita Bhattacharyya, Raja Dhar, Somnath Bhattacharya, Saikat Pal, Deep Narayan Mukherjee</td>
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<td>PA5115</td>
<td><strong>Early appropriate antimicrobial treatment guided by BioFire FilmArray may attenuate systemic inflammatory response in VA-LTRI patients</strong></td>
<td>Andrea Palomeque Flores (BARCELONA, Spain), Nona Rovira-Ribalta, Alba Soler, Leticia Bueno Freire, Anna Motos, Rubén López-Aladid, Enric Barbeta, Joan Canseco, Miriam Villanueva, Nil Vázquez, Antoni Torres*, Laia Fernández-Barat</td>
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<td>PA5116</td>
<td><strong>Poor prognostic factors in acute community-acquired pneumonia</strong></td>
<td>Houda Rouis (Ariana, Tunisia), Alaeddine Radhouani, Chirine Moussa, Mehdi Abdenadher, Faten Mhiri, Amel Khattab, Ibtihel Khonaj, Ines Zendah, Sonia Maalej</td>
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<td>PA5117</td>
<td><strong>Association between HRCT image findings of aspiration pneumonia and elevated bronchoalveolar lavage amylase and pepsin</strong></td>
<td>Tomoko Suzuki (Iruma-gun, Japan), Miwako Saitou, Yuka Utano, Kenichi Utano, Katsunao Niitsuma</td>
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<td>PA5118</td>
<td><strong>Value of soluble urokinase plasminogen activator receptor (sUPAR) for predicting severity of community-acquired pneumonia (CAP)</strong></td>
<td>Lisa Hessels (Alkmaar, Netherlands), Ruud Duijkers, Marianne Schoorl, Lotte Terpstra, Willemien Thjs, Wim Boersma</td>
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<td>PA5119</td>
<td><strong>Development of a new prognostic score to predict pneumonia outcomes using artificial intelligence-based chest radiograph results</strong></td>
<td>Eun Hye Lee (Seoul, Republic of Korea), Ji Soo Choi, Hyun Joo Shin, Kyunghwa Han, Eun Kyung Kim</td>
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<td>PA5120</td>
<td><strong>Exposure to antimicrobials and microbiological yields from bronchoscopy in immunocompromised patients, a single-centre two-year experience.</strong></td>
<td>Albert Teng (Singapore, Singapore), Deshawn Tan, Kundan Reddy Saripalli, Timothy Toh, Youxin Puan, Brian Chua, Isaac Fong, Yi Hern Tan</td>
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<td>PA5121</td>
<td><strong>COMMUNITY-ACQUIRED PNEUMONIA: RISK AND PROGNOSIS</strong></td>
<td>Rano Nalibaeva (Tashkent, Uzbekistan), Irina Liverko</td>
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<td>PA5122</td>
<td><strong>Clinical utility of routine bronchoscopic secretion sampling for microbiological and multiplex PCR during bronchoscopy</strong></td>
<td>Christopher Milacek (Wien, 05. Bezirk, Margareten, Austria), Marco Idzko, Daniela Gompelmann</td>
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<td>PA5123</td>
<td><strong>Results of microbiome analyses on bronchoalveolar lavage (BAL) sample</strong></td>
<td>Katarina Pontoppidan (Southampton, United Kingdom), Christian Niels Meyer, Xiaohui C Nielsen, Jens J Christensen, Henrik Vedel Nielsen, Kurt Fuursted, Christian S Jensen</td>
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<td>PA5124</td>
<td><strong>BACTEREMIA PREDICTION IN PNEUMOCOCCAL PNEUMONIA: A COMPARATIVE STUDY OF 2 SCORES</strong></td>
<td>Leyre Serrano Fernandez, Luis Alberto Ruiz Iturriaga, Silvia Perez-Fernandez, Pedro Pablo España Yandiola, Catia Cilloni, Ainhoa Gomez Bonilla, Edurne Echeverria Guerrero, Beatriz Gonzalez Quero, Ane Uranga Echeverria, Antoni Torres Martí, Rafael Zalacain Jorge</td>
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<td>PA5125</td>
<td><strong>Impact of absence of an early circulating neutrophil count expansion on outcome of patients with community-acquired pneumococcal pneumonia</strong></td>
<td>Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Silvia Perez-Fernandez, Sonia Castro Quintas, Amna Urrutia Gajate, Edurne Echeverria Guerrero, Beatriz Gomez Crespo, Ainhoa Gomez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge</td>
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<td>PA5126</td>
<td><strong>Microbiology, appropriateness of empiric antibiotics and clinical outcome of hospital-acquired pneumonia in the era of multidrug-resistant Acinetobacter baumannii</strong></td>
<td>Myung Goo Lee (Chuncheon, Republic of Korea)</td>
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<td>PA5127</td>
<td><strong>Comorbidity-based distribution of pneumococcal serotypes in Greek adults hospitalized with community-acquired pneumonia (CAP)</strong></td>
<td>Adamadis Liapikou (Athens, Greece), Vasiliki Kossyvaki, John Skiadas, Eleftherios Markatis, Damianos Menegas, Cristina Méndez, Claudia Schwarz, Maria Lahueria, Elizabeth Begier, Bradford D. Gessner, Haralampos Milionis, Vasilios Tsimihodimos, Konstantinos Kostikas, Athanasios Konstantinidis, Gerasimos Baxevanos, Charalampos Triantafylidis, Theodora Argiriadou, Chrysavigi Terrovitou, Daniil Daniilidis, Paraskevi Katsaounou, Michael Toumbis, T. Egnatia Study Group</td>
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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 Ryrso, Maria Hein Hegelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Christian Ritz, Daniel Faureholt-Jepsen, Birgitte Lindegaard

Phenotypes of Hospitalized Patients with Pneumonia
Daniel Knox (Murray, United States), Jason Carr, Simon Brewer, Samuel Brown, Nathan Dean, Ithan Peltan

Altered sphingolipid metabolism in community acquired pneumonia
Kurt Gerhard Stollberg (Jena, Germany), Ha-Yeon Chung, Dirk K. Wissenbach, Marc-Thilo Figge, Frank T. Peters, Martin Witzenrath, Markus H. Griller, Mathias W. Pletz, Ralf Alexander Claus, Capnetz-Study Group

CLINICAL MANAGEMENT OF PNEUMONIA VERSUS RECOMMENDATIONS OF THE SEPAR GUIDELINES.
Javier Sánchez Masa (Palencia, Spain), María Inés Salazar Lozano, Ana Pérez Dublang, María Ángeles Escobar Valero, Sara Barakat Fernández, María Beatriz Cartón Sánchez, Andrea Crespo Sedano, Esther Alonso Sastre, Enrique Alonso Mallo, Alba Daniela García Molina, María Irene Alaejos Pascua, Ana María Andrés Porras, Francisco Javier Pagán Buzo, Ana Villacorta Soto, 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

Poster session: Unravelling diagnostic and treatment modalities in lung cancer

Assessing the ability of MRI in lung cancer mediastinal staging: rationale and preliminary results
Francesco Bertuccio (Pavia, Italy), Paolo Costetta Reposi, Alice Lionetti, Laura Saracino, Stefano Tomasselli, 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 Disdier Vicente, Blanca De Vega Sanchez, Álvaro Pérez Rodriguez, Soraya Fernandez Gay, Esperanza Guzman Ansado, Norman Andres Villamagua Arias

Sarcoid-like granulomatous inflammation in the setting of underlying malignancy: endobronchial ultrasound registry-based report and a call for caution
Grigor Salai (Zagreb, Croatia), Robert Gecievic, 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 Michieletto

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)
PA5143  The Effects of Geographical Variation on Radical Treatment Rates in Lung Cancer
Richard Cooper (Malpas, United Kingdom), Buddug Eckley, Jack Barrington, Daniel Menzies

PA5144  Resection rates in early-stage lung cancer in an Australian regional centre
Manoj Thogesan (Newcastle, Australia), Krishobhan Baskaran, Christian Stolz, Vineeth George

PA5145  Pancoast tumor: surgical management
Selma Madhi (Ariana, Tunisia), Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Ines Moussa, Adel Margheli

PA5146  Mortality and recurrence following surgically treated primary lung malignancy
Yvette Farrugia (Zurrieq, Malta), Darlene Mercieca, Peter Fsadni

PA5147  Multidisciplinary enhanced recovery protocol pathway (ERPP) in lung cancer surgical resections; a tertiary centre experience
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Ioannis Kyritsis, Nikolaos Anastasiou

PA5148  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 Mlika, Sarra Zairi, Adel Marghli

PA5149  Treatment outcome and safety of concurrent chemoradiation in elderly patients with unresectable Stage III non-small cell lung cancer
So Jeong Kim (Hwaseong, Republic of Korea), Na Young Kim, Soojie Chung, Jeong-Hee Choi, In Gyu Hyun, Junghyun Kim

PA5150  Endobronchial brachytherapy (EBBT) as palliative treatment in metastatic endobronchial disease from distant organs. Experience of an Oncological Hospital during the last decade.
Danai Bisirtzoglou (Athens, Greece), Thaleia Gioxari, Konstantina Papalla, Athanasios Zetos, Ira Michailidou, Vasiliki Petta, Georgios Politis

PA5151  Clinical study of AERO stent placement for malignant airway stenosis in Okayama Medical Center
Kenichiro Kudo (Okayama, Japan), Ken Sato

PA5152  Diagnostic and therapeutic approach of rare thoracic tumors
Hanene Smadhi (Manouba, Tunisia), Sabrine Elfidha, Hadhemi Rejeb, Hela Kamoun, Bochara Karaborni, Chaïma Djennah, Ines Akrout, Leila Fekih, Mohamed Lamine Megdiche

PS-18 in poster area  Session 498  16:00 - 17:30
Poster session: Pulmonary fibrosis: miscellaneous

Disease(s) : Interstitial lung diseases Airway diseases Respiratory critical care
Method(s) : Epidemiology Pulmonary function testing General respiratory patient care Cell and molecular biology Palliative care Imaging Pulmonary rehabilitation Surgery Public health
Tag(s) : Translational
Chairs : Esther Jeritza Nossent (Amsterdam, Netherlands), Laura Fabbri (London, United Kingdom)

PA5153  Virtual pulmonary rehabilitation for people with idiopathic pulmonary fibrosis: a mixed methods feasibility study
Orlagh O'Shea (Belfast (Belfast), United Kingdom), Grainne Murphy, Luke Forde, Katherine O'Reilly

PA5154  Physical activity measurement with questionnaire in idiopathic pulmonary fibrosis

PA5155  IS THE PORTABLE CONCENTRATOR THE BEST SOLUTION TO CORRECT EXERCISE OXYGEN DESATURATION?
Ariadna Farre Maduell (Barcelona, Spain), Ana Alonso, Patricia Peñaocoba, Fatima Morante, Maria Rosa Güell

PA5156  Association between smoking and prognosis in patients with idiopathic pulmonary fibrosis
Min Jee Kim (Seoul, Republic of Korea), Hee-Young Yoon, Hoseob Kim, Yoonjong Bae, Jin Woo Song

PA5157  Interstitial lung disease increases the risk of severe COVID-19 infection; a retrospective registry-based epidemiological study of the entire adult Swedish population
Emil 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 Vermant (Elsene, Belgium), Tinne Goos, Nathalie Veyt, Stefan Gogaert, Marianne S Carlon, Nico De Crem, Laurens J De Sadeleer, Ellen De Langhe, Adriana Dubbeldam, Bart Vanaudenaerde, Erik K Verbeken, 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 Levrà (Moncalieri, Italy), Giuseppe Guida, Vittina Carriero, Francesca Bertolini, Elisa Arrigo, Elisa Riccardi, Flavio Crosa, Paolo Carlo Ghio, 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 (Hiroasaki, 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, 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 Vadhadvar, 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, So Young Park, 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), Gigi Syamlal, David Weissman

Surgical pulmonary biopsy in ILD: analysis of complications and survival
Sonia Pascual García (Leganés, Spain), Cristina Matesanz López, Beatriz De Olaz Navarro, Jose Antonio Aramburu González, Eva Aguilar Rivilla, Beatriz Raboso Moreno, Adriana Rodriguez Perojo, Araceli Abad Fernández, Maria Teresa Rio Ramirez

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

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Chiara Di Maria (S. Gregorio, Italy), Simone Prestifilippo, Claudia Crimi, Carlo Vancheri

Session 499 16:00 - 17:30
Poster session: Chronic thromboembolic pulmonary hypertension and other aspects in the pulmonary vasculature
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 Renfio, Jose gregorio Gonzalez garcia, Mariela Lizzeth Arita Guevara, Ricardo alberto Reyes jimenez, Anna Herranz blasco, Mireia Admetillo papiol, Anna Rodo Pin, Juanjo Rodriguez sevilla, Flavio Zuccarino, Judith Villar Garcia, Luis Molina Ferragut, Eva Balcells Vilarnau, Diego Rodriguez Chiaradia

Long-term safety and survival time under subcutaneous treprostinil treatment in patients with severe chronic thromboembolic pulmonary hypertension (CTEPH)

Pavel Jansa (Jimny, Czech Republic), Roela Sadushi-Kolici, Grzegorz Kopec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Steinger-Mascherbauer, Barbara Salobir, Walter Klepetko, Jaroslav Lindner, Irene M. Lang

The relationship between the preoperative pulmonary function test and DLCO values and the anatomical classification of thrombus in patients who underwent pulmonary endarterectomy with the diagnosis of chronic thromboembolic pulmonary hypertension.

Burcu Turan (Istanbul, Turkey), Derya Kocakaya, Sehnaz Olgun Yildizeli, Bedrettin Yildizeli

Calibrated automated thrombography demonstrates a hypocoagulable profile in subjects with pulmonary arterial hypertension

Sarah Cullivan (Dublin, Ireland), Ciara Mccormack, Brian Mccullagh, Barry Kevane, Patricia Maguire, Fionnuala Niaiinle, Sean Gaine

Nocturnal desaturation in patients with chronic thromboembolic pulmonary hypertension.

Yu Taniguchi (Kobe, Japan), Hiroyuki Fuji, Kenichi Yanaka, Noriaki 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 Solimas, Athenais Boucly, Karen Bitton, Anne Roche, Olivier Sereaton, Karen Sheares, Dolores Taboada, Steven Tsui, John Wort, Joanna Pepke-Zaba, Mark Toshner

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 Marin Romero1, 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 Duvilleix, Jean-Baptiste Gaultier, Valentine Mismetti, Elodie De Magalhaes, Audrey Thalamy, Vincent Cottin, Géraldine Poenou, Laurent Bertolletti

CTEPH patients with mild hemodynamic severity of disease improve to a similar level of exercise capacity after pulmonary endarterectomy compared to patients with severe hemodynamic disease.

Coen van Kan (Amsterdam, Netherlands), Jelco Tramper, Paul Bresser, Lilian Meijboom, Petr Symersky, Toon Winkelman, Esther Nossent, Jurjan Aman, Harm Jan Bogaard, Anton Vonk Noordegraaf, Josien Van Es

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 Staecker
**The impact of the Covid-19 pandemic on the lives of patients with pulmonary hypertension**

Iain Armstrong (Sheffield, United Kingdom), Catherine Billings, J Paul Sephton, Shaun Clayton, Mary Ferguson, John Smith

**COVID-19 and pulmonary vasculature: the impact of pulmonary artery dilation in clinical outcome**

Angelos Zouglos (Halandri, Greece), Kyriaki Tavermaraki, Styliani Arapostathi, Konstantinos Tsiakos, Asimina Nikolakopoulou, Athanasios Andrianopoulos, Alexandros Patsouras, Christina Potari, Dimitrios Arvanitis, Loukas Thanos, Angeliki Rapti

**Chest computed tomography demonstrates transient enlargement of the pulmonary artery in COVID-19 pneumonia that regresses after remission of the disease**

Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Konstantinos Pagonidis, Eirini Manousaki, Michail Fragkoulakis, Irini Lambiri, Ioanna Mitrouskia, Katerina M. Antoniou, Nikolaos Tzanakis

**Renal outcomes after lung and combined heart-lung transplantation in pulmonary hypertension**

Laura Hardy (Leuven, Belgium), Alexander D’Haenens, Rozenn Quarck, Gitte Aerts, Catharina Belgé, Guido Claessen, Dirk Kuypers, Greet De Vlieger, Tom Verbelen, Laurens Ceulemans, Dirk Van Raemdonck, Geert Verleden, Robin Vos, Arne Neyrinck, Marion Delcroix, Laurent Godinas

**The effect of mechanical stimulation on cardiac fibroblasts in pulmonary arterial hypertension**

Fjodor Bekedam (Amsterdam, Netherlands), Marisa R. Smit, Anton Vonk Noordegraaf, Harm Jan Bogaard, Marie Jose Goumans, Frances De Man, Aida Llucia-Valldeperas

**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

**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, Àlvar 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 Tammi, 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 Confolanieri, Leonardo Iannacci, Silvia Mancinelli, Paola Putignano, Giulia Maria Stella, Maria Cristina Monti, Angelo Guido Corsico, Ilaria Ferrarotti
PA5198 Genetic variants in the iron responsive element binding protein 2 (IREB2) are associated with spirometry parameters and cough prevalence
Charikleia Ntenti (Thessaloniki, Greece), Antonis Goulas, Leticia Grize, Eleni Papakonstantinou, Michael Tamm, Daiana Stolz

PA5199 MicroRNA-149-3p regulates cigarette smoke extract-induced autophagy and cellular senescence in human small airway epithelial cells (NHBE) cultured under the air-liquid interface (ALI)
Jeong-Woong Park (Incheon, Republic of Korea), Eun Suk Son, Sung Hwan Jeong

PA5200 FKBP5 rs4713916: A potential genetic predictor of differential response to triple therapy among COPD patients
Charikleia Ntenti (Thessaloniki, Greece), Antonis Goulas, Eleni Papakonstantinou, Leticia Grize, Michael Tamm, Daiana Stolz

PA5201 Lung fibroblasts from COPD patients show deficient gene expression in response to cigarette smoke extract
Martin Garcia-Ryde (Lund, Sweden), Nicole Van Der Burg, Anna-Karin Larsson Callerfelt, Gunilla Westergren-Thorsson, Leif Bjerner, Ellen Tuveson

PA5202 Profile of myostatin regulation and downstream mechanisms in the sarcopenia of severe COPD patients
Adriana Núñez Robainas (Barcelona, Spain), María Guitart, Antonio Sancho Muñoz, Esther Barreiro

PA5203 Exome seq of patients with severe COPD and advanced emphysema
Ailen Faiz (Ultimo (NSW), Australia), Simon D. Poulwels, Victor Guryev, Fia S. Boedijono, Huib Kerstjens, Karin Klooster, Jorine E. Hartman, Wim Timens, Corry-Anke Brandsma, Dirk-Jan Slebos, Maarten Van Den Berge

PA5204 Is the lower airways microbiome associated with coronary calcification?
Christina Due Svendsen (Bergen, Norway), Rune Nielsen, Sólveig Tagedal, Kris Ostridge, Eli Nordeide, Terje Hjalmar Larsen, Karel Kuiper, Tomas Mikal Eagan

PA5205 Identification of negative regulators of Wnt/β-catenin signaling in lung epithelial cells through whole genome CRISPR screen
Markus Tammia (Mölndal, Sweden), Anna Dickson, Niamh Mullooly, Adam Corrigan, Alessia Serrano, Yaxin Xue, Chang Kim, Ewa Kolosionek, Stefan Vollmer, Bairu Zhang, Leire Escudero-Ibarz, Valentina Quanartt, Gabriella Leung, Danica Cornacchia, Sandeep Botla, Linn Kullberg, Louise Stjernborg, Olivia Pembridge, Mahya Dezfouli, Naomi Lyons, Joseph Collin, Leif Wigge, Anna Forslöw, Mirko Messa, Roxane Paulin, Ceri Wiggins, Bilal Diblic, Henric Olsson, Davide Gianni

PA5206 Early COPD and Hedgehog interacting protein (HHIP) polymorphisms
Mohamed Zakaria LAHMAR (Montpellier, France), Engi Ahmed, Isabelle Vachier, Aurelie Fort, Nicolas Molinari, Anne Bergougnoux, Arnaud Bourdin

PA5207 Cigarette smoking, COPD and the sex chromosomes
Karoshah (Diren) Reddy (Glebe, Australia), Dikaia Xenaki, Senani Rathnayake, Razia Zakarya, Sobia Idrees, Fia Boedijono, Matthew Padula, Maarten Van Den Berge, Alen Faiz, Brian Oliver

PA5208 Identification of disease modifier genetic variants in PiZZ patients with alpha-1 antitrypsin deficiency
Beatriz Martinez Delgado (Madrid, Spain), Janam Lalchandani, Sara Gil-Martin, Sara Perez-Luz, Nerea Matamala, Guillermo Pitá, 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

PA5209 Differential DNA Methylation Associated with COPD and COPD Severity
Jos van Nijjanten (Groningen, Netherlands), Alen Faiz, Cornelis Joseph Vermeulen, Wim Timens, Maaike De Vries, Rosa Faner, Pieter Hiemstra Hiemstra, Corry-Anke Brandsma, Maarten Van Den Berge

PA5210 Polymorphism endothelin-1 gene (Lys198Asn) in airway remodeling and increased endothelial dysfunction in COPD
Elnorahon Abduganieva (Tashkent, Uzbekistan)

PA5211 Late Breaking Abstract - Characterization of goblet cell metaplasia according to small airway generation and epithysesa 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

PA5212 Development of a next generation sequencing assay for detection of A1AT deficiency
Susana Catarino (Derio, Spain), Lorena Alonso, Monika Landeta, Ana Vivanco, Marta Artieda, Amaia Larruskain, Monica Lopez
**Disease(s):** Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care, Sleep and breathing disorders

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Respiratory intensive care, Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Chairs:** Chair to be confirmed

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**PA5213**
Navigated transbronchial needle biopsy of mediastinal lymph nodes (Navi-TBNA)– a feasibility trial
Felix J.F. Herth (Heidelberg, Germany), Konstantina Kontogianni, Li Xi, Yu Li, Nansheng Wan, Xiaoping Wang, Guangnan Liu, Jing Feng, Ralf Eberhardt, Judith Brock, Frederik Trinkmann

**PA5214**
Fiducial marker placement for stereotactic body radiotherapy via convex probe endobronchial ultrasound: a case series and preliminary results
Valentina Luzzi (Firenze (FI), Italy), Bianca Peixoto, Marco Trigiani, Luca Ciani, Leonardo Giuntoli, Mauro Loi, Sara Tomassetti

**PA5215**
Evaluating the Accessibility and Puncturing Ability of the Thin Convex Probe Endobronchial Ultrasound Bronchoscope in Cadaver Models
Yuta Takashima (Sapporo, Japan), Naofumi Shinagawa, Masahiro Kashima, Hitoki Arisato, Daisuke Morinaga, Tomoo Ikari, Shotaro Ito, Kosuke Tsuji, Hirofumi Takahashi, Tetsuaki Shoji, Toshiaki Shichinohe, Satoshi Kono

**PA5216**
Finding effective conjugation of advanced bronchoscopic techniques in diagnosing peripheral lung nodules
Bora Lee (Seoul, Republic of Korea), Hee Sang Hwang, Se Jin Jung, Sang Young Oh, Mi Young Kim, Chang-Min Choi, Young Ju Jung, Wonjun Ji

**PA5217**
The beginnings of Radial Probe Endobronchial Ultrasound without a Guide-Sheath and fluoroscopy.
Yanira Chuquimia Mendoza (Leon, Spain), Javier Juan García, Carmen Lopez Garay, Elena Martín Gallego, Cristina Menendez Sanchez, Pablo Franco Suarez, Yolanda Ramos Alonso, Almudena Regidor Delgado, Patricia Giganto Alfaierme, Milagros Blanco Fernandez, Lorena Rodriguez Casado, Luis Carazo Fernandez

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**PA5218**
Navigated transbronchial needle biopsy of mediastinal lymph nodes (Navi-TBNA)– a feasibility trial
Felix J.F. Herth (Heidelberg, Germany), Konstantina Kontogianni, Li Xi, Yu Li, Nansheng Wan, Xiaoping Wang, Guangnan Liu, Jing Feng, Ralf Eberhardt, Judith Brock, Frederik Trinkmann

**PA5214**
Fiducial marker placement for stereotactic body radiotherapy via convex probe endobronchial ultrasound: a case series and preliminary results
Valentina Luzzi (Firenze (FI), Italy), Bianca Peixoto, Marco Trigiani, Luca Ciani, Leonardo Giuntoli, Mauro Loi, Sara Tomassetti

**PA5215**
Evaluating the Accessibility and Puncturing Ability of the Thin Convex Probe Endobronchial Ultrasound Bronchoscope in Cadaver Models
Yuta Takashima (Sapporo, Japan), Naofumi Shinagawa, Masahiro Kashima, Hitoki Arisato, Daisuke Morinaga, Tomoo Ikari, Shotaro Ito, Kosuke Tsuji, Hirofumi Takahashi, Tetsuaki Shoji, Toshiaki Shichinohe, Satoshi Kono

**PA5216**
Finding effective conjugation of advanced bronchoscopic techniques in diagnosing peripheral lung nodules
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**PA5219**
Electromagnetic navigation bronchoscopy for peripheral pulmonary lesions: An observational study. First experience.
Ana Reyes Pardessus Otero (Barcelona, Spain), Inés Podzamczer Valls, Albert Rafecas Codem, Ana Parera Ruiz, Marta Navarro Colom, Virginia Pajares Ruiz, Alfonso Torreguera Fernandez

**PA5220**
The role of Rapid On-Site Evaluation (ROSE) in diagnostic EBUS-TBNA procedures for stage IV lung cancer.
Marwarh Almadhi (Manchester, United Kingdom), Haval Balata, Matthew Evison, Azita Rajai, Haider Al-Najjar

**PA5221**
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

**PA5222**
A randomised controlled trial of narrow-band imaging vs. white light bronchoscopy-guided endobronchial biopsy in suspected sarcoidosis (NABS)
Sahajal Dhooria (Chandigarh, India), Kiritath Rathi, Ritesh Agarwal, Naliní Gupta, Amanjit Bal, Ashutosh Nath Aggarwal

**PA5223**
Pre-bronchoscopic 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, Grigoris Stratakos

**PA5224**
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

**PA5225**
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

**PA5226**
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 Özsezen, Birci Sunman, Secahattin Bayav, Mukaddes Ağırtıcı, Batuhan Bakırarar, Ebru Yalçın, Nazan Çobanoğlu

**PA5227**
High flow oxygen vs standard management during bronchoscopy in COPD patients – a randomised controlled trial
Andrei Daric (Basel, Switzerland), Leticia Grize, Kathleen Jahn, Anna Salina, Jonathan Röcken, Matthias Herrmann, Maria Pascarella, Vivian Suarez, Werner Strobel, Michael Tammi, Daiana Stolz
PA5228  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

PA5229  The distance by virtual bronchoscopic navigation and lesion diameter were predictive of the diagnostic rates of primary lung cancer and Endobronchial ultrasonography with guide sheath (EBUS-GS) findings by bronchoscopy  
Atsushi Kitamura (Tokyo, Japan), Yutaka Tomishima, Ryosuke Imai, Naoki Nishimura, Kohei Okafuji, Shosei Ro, Clara So, Tomoaki Nakamura, Torahiko Jinta

PA5230  Bronchoscopic transparenchymal MP290F nodule access (BTPMNA): first in human case series of a novel procedure for sampling solitary pulmonary nodules  
Hai Feng Ou Yang

PA5231  Ultra-thin bronchoscopy with cone beam CT for small peripheral pulmonary lesions  
Fumihiko Asano (Gifu, Japan), Tomoya Kato, Akifumi Tsuzuki, Atsunori Masuda, Anri Murakami, Akimasu Tsuchida, Yasutomo Baba, Yutaro Kuzunishi, Mayuka Miyoshi, Yuya Muto, Yui Sasaki, Rina Ota, Genta Otani

PA5232  Ultra-thin cryoprobe: diagnostic and safety profile in peripheral pulmonary lesions  
Sameer Arbat (Nagpur (Maharashtra), India), Bharat Agrawal

PS-3 in poster area  Session 502  16:00 - 17:30
Poster session: What's new in stem cell therapies and mechanisms underlying acute lung injury-acute respiratory distress syndrome

Disease(s) :  Airway diseases  Respiratory critical care  Interstitial lung diseases  Pulmonary vascular diseases
Method(s) :  Cell and molecular biology  Respiratory intensive care  Physiology  Imaging  Pulmonary function testing
Tag(s) :  Basic science, Translational
Chairs :  Anna Krasnodembskaya (Belfast (Belfast), United Kingdom), Chair to be confirmed

PA5233  Late Breaking Abstract - Liraglutide attenuates sepsis-induced endothelial dysfunction and Acute Lung Injury  
Julie Bastarache (Nashville, United States), Brandon Baer, Nathan Putz, Kyle Riedmann, Samantha Gonski, Jason Lin, Lorraine Ware, Shinji Toku, Stokes Peebles, Katherine Cahill

PA5234  Age related changes of the lung extracellular matrix stiffness and stem cell viability  
Isaac Almendros (Barcelona, Spain), Maria Narciso, Anna Ulldemolins, Alicia Jurado, Daniel Navajas, Ramon Farré, Nuria Gavara

PA5235  Lung Extracellular Matrix Hydrogels-Derived Vesicles Contribute to Epithelial Lung Repair  
Isaac Almendros (Barcelona, Spain), Anna Ulldemolins, Alicia Jurado, Carolina Herranz-Diez, Nuria Gavara, Jorge Otero, Ramon Farré

PA5236  ARDS disease-relevant cytokines alter human mesenchymal stromal cell (MSC) function  
Sara Rolandsson Enes (Lund, Sweden)

PA5237  MSCs are protective against ‘second hit’ injury during pulmonary sepsis in mechanically ventilated rodents.  
Claire Masterson (Galway (Co Galway), Ireland), Ignacio Sallent, Lanzhi Liu, Hector Gonzalez, Sean Mc Carthy, Declan Byrnes, Senthil Alagesan, Juan Fandiño, Abigail Warren, Daniel O’Toole, John Laffey

PA5238  Lipofibroblast derived-extra-cellular vesicles attenuate cigarette smoke-induced lung injury  
Shota Fujimoto (Tokyo, Japan), Yu Fujita, Naoaki Watanabe, Sachi Matsubayashi, Hironori Kawamoto, Daisuke Takekoshi, Saburo Ito, Shunsuke Minagawa, Hiromichi Haru, Jun Araya, Kazuyoshi Kiuwano

PA5239  Lung 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

PA5240  Benefits of bronchial epithelial repair by iPSC in COPD  
Marion Nadaud (Montpellier, France), Carine Bourdais, Aurélie Fort-Petit, John De Vos, Kheira Hichre, Isabelle Vachier, Engi Ahmed, Arnaud Bourdin

PA5241  Adipose mesenchymal stem cells from COPD patients are capable of restoring elastase-induced emphysema in a murine experimental model  
Aina Martín Medina (Palma, Spain), Carlos Río, Andreas K. Jahn, Alba Martina Calvo Bota, Ma Teresa De Francisco Casado, Pere Joan Pont Antona, Orlando Gigirey Castro, Ángel Francisco Carvajal, Cristina Villena Portella, Cristina Gómez Bellvert, Amanda Iglesias, Javier Calvo Benito, Antoni Gayà Puig, Luis A. Ortiz, Ernest Sala-Llinás

PA5242  The sodium-coupled neutral amino acid transporter SNAT2 regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS  
Juliana Falivene (Berlin, Germany), Sarah Weidenfel, Wolfgang M. Kuebler
PA5243 Dynamic doublecortin-like kinase 1 (DCLK1) expression on alveolar epithelial type II cells (AT2) in acute respiratory distress syndrome (ARDS) mouse model
Xiao-Yue Chen (New Taipei City, Taiwan), Ching Kao, Hsiao-Chi Chuang

PA5244 Persistence of lung dysfunction in post-acute COVID-19: a microRNA approach
Maria C García-Hidalgo (Lleida, Spain), Jessica González, Manel Perez-Pons, Iván D Benítez, Marta Molinero, Thalia Belmonte, Carlos Rodríguez-Muñoz, Gerard Torres, Anna Moncusi-Moix, Clara Gort-Paniello, Jesús Caballero, Carme Barberá, Adrián Ceccato, 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

PA5245 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 Delassasseigne, Fanny Ménard, Camille Vinclair, Erwan Begot, Laurent Petit, Cédric Carrié, Didier Brönnimann, Denis Malvy, Alexandre Duvgignaud, Chloé James

PA5246 Lung lipid profile upon COVID-19-related Acute Respiratory Distress Syndrome
Paula Losada-Oliva (Madrid, Spain), Chiara Autillo, 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

PA5247 Late Breaking Abstract - Macrophage metabolic reprogramming mediated by carnitine palmitoyltransferase 1A in acute lung injury in an IL10-dependent manner
Muyun Wang (Shanghai, China), Kun Wang, Wei Gao, Qiang Li

PA5248 A blood-based microRNA signature for the early prediction of the respiratory sequelae in critical COVID-19
Marta Molinero García (Lleida, Spain), Ivan D Benítez, Manel Perez-Pons, Nadia García-Mateo, Alicia Ortega, Tamara Postigo, María C García-Hidalgo, Thalía Belmonte, Carlos Rodríguez-Muñoz, Jessica González, Gerard Torres, Clara Gort-Paniello, Anna Moncusi-Moix, Ángel Estella, Luis Tamayo Lomas, Amalia Martínez De La Gándara, Lorenzo Socías, Yihvian Peñuelas, María Del Carmen De La Torre, Elena Bustamante-Munguira, Elena Gallego Curto, Ignacio Martínez Varela, María Cristina Martín Delgado, Pablo Vidal-Cortés, Juan López Messa, Felipe Pérez-García, Jesús Caballero, Jose M Añón, Ana Loza-Vázquez, Nieves Carbonell, Judith Marín-Corral, Ruth Noemí Jorge García, Carme Barbera, Adrián Ceccato, Laia Fernández-Barat, Ricardo Ferrer Roca, Dario García-Gasulla, Jose Ángel Lorente-Balanza, Rosario Menéndez, Ana Motos, Óscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferran-Eduard Barbe Illa

PA5249 Serum collagen biomarkers are related to fatal outcome in patients with severe COVID-19 in a Phase II clinical trial
Helene Wallem Breisnes (Herlev, Denmark), Signe Holm Nielsen, Cecilia Bagger, Dario Delapaz, Carolyn Miller, Arnoldo Mora, Tony Cahn, Ciara O’Shea, Jack Siderfin, Kai Hove, Mark Layton, Anne-Christine Bay-Jensen, Jannie Marie Bollow Sand, Sumantha Mukherjee

PA5250 Lung ECM composition, its influence factors and transcriptomics in the lungs of severe COVID-19.
Natália de Souza Xavier Costa (São Paulo, Brazil), Gabriel Ribeiro Únior, Ellen Toledo Do Nascimento, José Mara De Brito, Jhonatas Sirino Monteiro, João Carlos Setubal, João Renato Rebelo Pinho, Roberta Verciano Pereira, Renata Aparecida De Almeida Monteiro, Amaro Nunes Duarte Neto, Paulo Hilário Nascimento Saldiva, Luiz Fernando Ferraz Da Silva, Marisa Dolnhkoff, Thais Mauiad

PA5251 Long-term follow-up of neutrophil activation after severe-to-critical SARS-CoV-2 infection: a longitudinal study
Simon Valentin (Nancy, France), Véronique Regnault, Jean-Louis Guéant, Thery Abel, Patrick Lacolley, Frederic Schlemmer, Ari Chaouat, Francois Chatel, Rosa-Maria Gueant-Rodriguez

PA5252 Histopathology of the lungs in the acute and post-acute period of severe COVID-19.
Oleh Yakovenko (Lutsk, Ukraine), Sergej Grif, Stephanie Hoffmann, Alexandr Khanin, Tetiana Yakovenko, Eduard Khodos, Yaroslav Dziublyk

PA5253 Sleep efficiency and sleep onset latency in a First Nation community in Saskatchewan, Canada
Chandima Karunanyake (Saskatoon, Canada), James A. Dosman, Mark Fenton, Jeremy Seesequequisas, Marie Neubuh, Warren Seesequequisas, Delano Mike, Kathleen Memullin, Malcolm King, Sylvia Abonyi, Vivian R. Ramsden, Donna C. Rennie, Shelley Kirychuk, Niels Koehncke, Robert Skomro, Brooke Russell, Panam Paliwa
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<td>PA5254</td>
<td>Sleep quality of physicians at a University Hospital - cross-sectional observational study</td>
<td>Eduardo Garcia (Porto Alegre (RS), Brazil), Fernanda Altmann Oliveira, Aline Tiemi Hirose Ventura, Carlos Javier Mendoza Bravo</td>
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<td>Perception of Sleep Quality in Health Professionals at a University Hospital - an observational study</td>
<td>Eduardo Garcia (Porto Alegre (RS), Brazil), Carlos Javier Mendoza Bravo, Aline Tiemi Hirose Ventura, Fernanda Altmann De Oliveira</td>
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<td>Sleep habits and sleep quality among Tunisians students</td>
<td>Rim Khemakhem (Sfax, Tunisia), Israa Wadhane, Sabrine Fidha, Rahma Gargouri, Sameh Msaaed, Nadia Moussa, Najla Bahloul, Samy Kammoun</td>
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<td>Pedro Magalhães Ferreira (Vila Nova de Gaia (District of Porto), Portugal), Filipa Carriço, Daniela Rodrigues, Margarida Redondo, Mafalda Van Zeller, Marta Drummond</td>
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<td>Association of Vitamin B12 levels with Sleep Quality, Insomnia and Sleepiness in Adult Primary Health Care Users in Greece</td>
<td>Izolde Bouloukaki (Heraklion (Crete), Greece), Maria Lampou, Konstantina Maria Raouzaiou, Eirini Lambrekhi, Ioanna Tsihigianni, Sophia Schiza</td>
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<td>Jenny Theorell-Hagløw (Uppsala, Sweden), Xingwu Zhou, Gary Wittert, Robert Adams, Sarah Appleton, Amy Reynolds, Mirjam Ljunggren, Nathaniel Marshall</td>
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<td>Feryel Chaouki (Batna, Algeria), Tarek Djendi, Mohamed Fateh Roughi</td>
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<td>Suhail Alsaleh (Riyadh, Saudi Arabia), Norah Alshehri, Sara Alsiddiqi, Mohmmed Rayis, Safa Eltahir, Mohammed Alzaid, Wadh Alotaibi</td>
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<td>Karl Franklin (Umeå, Sweden), Martin Claesson, Eva Lindberg, Carin Sahlin, Anders Blomberg, Markku Haapamäki, Malin Sund, Johan Svensson, Malin Jonsson Fagerlund</td>
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<td>Katie Bottomley (Nottingham, United Kingdom), Rashad Salman, Rachel Tarrant, Stephen Halpin, Manoj Sivan</td>
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**PA5272**
Screening for obstructive sleep apnea in patients with Down Syndrome
Ana María Fortuna Gutierrez (Barcelona, Spain), Ines Podzamczer Valls, Mercè Mayos Pérez, Susana Clos Batet, Laura Videla Toro, María Carmona-Iragui, Isabel Barroeta Espar, Javier José Arranz Martínez, Bessy Benejam Paul, Alberto Lleó Bisa, Juan Fortea Ormaechea, Sandra Giménez Badia

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**PS-5 in poster area**
**Session 504**
16:00 - 17:30

**Poster session: Advancements in asthma management: holistic and personalised insights**

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Chairs:** Job F.M. van Boven (Groningen, Netherlands), Zuzana Diamant (Lund, Sweden)

**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 Labenbet, 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

**An online survey on Italian patients’ and physicians’ perspectives on the management of asthma**
Deborah Vannucci (Verona, Italy), Maria Sandra Magnoni, Fabio Arpinelli, Giorgio Walter Canonica

**Our experience of Dupilumab and maintenance oral corticosteroid use in severe adult atopic dermatitis associated to severe asthma.**
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Bernard Gregoire Krikorian, Patrick Gros

**Change in FEV1 as early predictor of response to biological therapy in patients with severe uncontrolled asthma.**
Sabiha Perello Rosello (Palma De Mallorca, Spain), Mireia Vicens Antón, Nuria Toledo Pons, Jose Luis Valera Felices, Rocio Martinez Martinez, Meritxell López Zamora, Amanda Iglesias Comas, Aina Rosa Millan Pons, Francisco De Borja García-Cosio Piqueras

**Under-treated asthma in adults – a common problem**
Caroline Stridsman (Luleå, Sweden), Jon R Konradsen, Stina Selberg, Maria Ödling, Apostolos Bossios

**Switching patients to maintenance and reliever therapy in the Emergency Department? - A qualitative study exploring the attitudes and beliefs of patients and healthcare professionals**
Imogen Skene (London, United Kingdom), Katy Pike, Chris Griffiths, Liz Steed, Paul Pfeffer

**ORBE II study: Is rapid response to benralizumab associated with positive long term clinical outcomes?**
Pilar Ausin Herrero (Barcelona, Spain), Eugenia Navarrete, Jose Luis Velasco, Álvaro Martínez, Carmen Cañete, Fernando Sánchez Toril, Mónica Santin, Marta Gonzalez, Javier Nuevo, Elisa Luzón, Alicia Padillo

**Dupilumab in Asia-Pacific patients with persistent asthma**
QingLing Zhang (Guangzhou, China), Zhong Nanshan, Sahajal Dhooria, Xiuhua Fu, Jie Lin, Wen Li, Elizabeth Laws, Leda P. Mannet, Yi Wang, Vivian Li, Anderson Li, Chih-Chi Hu, David J. Lederer, Raolat M. Abdulai, Lacey B. Robinson
The impact of baseline Asthma Control Test score on severe asthma Super-Responders assessment.
Ernesto Lulaj (Bari, Italy), Leonardo Maselli, Ilaria Iorillo, Andrea Portacci, Alessio Marinelli, Francesca Montagnolo, Giuseppe Di Gioia, Maria Rosaria Vulpi, Agnese Caringella, Silvano Dragonieri, Giovanna Elisiana Carpanago

Patients-Healthcare providers agreement on Super-Response to biologic treatments in Th2-high severe asthma
Leonardo Maselli (Acquaviva delle Fonti, Italy), Ilaria Iorillo, Ernesto Lulaj, Andrea Portacci, Alessio Marinelli, Francesca Montagnolo, Florgerta Sana, Giovanni Dalena, Laura Cuccaro, Maria Anna Ardito, Silvano Dragonieri, Giovanna Elisiana Carpanago

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, Allyn 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, Changming Xia, Scott Nash, Nami Pandit-Abid, Juby A. Jacob-Nara, Harry Sacks, Paul J. Rowe, Yamo Deriz, 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 Papà (Cona, Ferrara, Italy), Bradley Chippis, Frank Albers, Lynn Dunsire, Ileen Gilbert, Tim Harrison, Frank Trudo, Mark Weinberg, Christy Cappelletti

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

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 Bournin

Correlation between systemic inflammation and cardiovascular risk in COPD patients. Development of an inflammatory score
Ana Muñoz Montiel (Malaga, Spain), Pedro Ruiz Esteban, Natalia Garcia Florido, Esperanza Doña Díaz, Adolfo Domenech Del Río, Casilda Oliveira Fuster

The pH of the human airway: A novel technique to measure distal airway pH.
Olivia Giddings (Cleveland, United States), Homer Twigg, Nadzeya 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 Schaupp, Mirjam Völler, Urbantat Ruth Maria, Tattersall-Wong Janette, Röhmel Jobst, Mall Marcus
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<th>PA5300</th>
<th>Sputum rheology measurements in chronic respiratory diseases are similar across specialist centres</th>
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<td>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 Charrrot</td>
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<td>India Premjithal Blhaskaran (London, United Kingdom), Arya Premjithal Bhaskaran, Anusuya Premjithal Bhaskarn, Premjithal Bhhskaran</td>
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<th>Abnormalities of sputum rheological characteristics in patients with chronic cough and bronchial asthma</th>
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<td>Kazuhiro Ito (London, United Kingdom), Haruhiko Ogawa, Yuka Uchida</td>
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<th>PA5303</th>
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<td>Gulchekhra Tashmetova (Tashkent, Uzbekistan), Irina Liverko</td>
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<th>PA5304</th>
<th>Sputum rheology is associated with asthma control</th>
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<td>Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Taqdees Qureshi, Furkan Zurel, Leanne Holmes, Lynn Elsey, David Thornton, Stephen Fowler, Thomas Pantin</td>
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<th>The prevalence of and risk factors for non-smoking chronic obstructive pulmonary disease in China: A systematic review and meta-analysis</th>
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<td>Yue Zhang (Beijing, China), Xiaoyan Gai, Hongling Chu, Jingge Qu, Liang Li, Yongchang Sun</td>
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### PS-7 in poster area

**Session 506**

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**Chairs:** Florin Dumitru Mihaltan (Bucuresti, Romania)

**Vaping: A new trend of consumption among young people.**

**PA5313**

Daniel Enrique Vega Lizarazo (Mafaga, Spain), Sara Sánchez Martin, Maria Mercedes Segura Romero, Eva Belén Cabrera César

**PA5314**

The role of calcium dysregulation in e-liquids or vaping associated alveolar type II epithelial cell injury

RUI ZHANG (Yinchuan, China), Lili Miao, Rob Onywnwoke
PA5315 Tobacco heaters, electronic cigarettes, hookahs, cannabis: really a safer alternative to cigarettes?
Iris Hohenadel (Sandhausen, Germany)

PA5316 Impact of heated tobacco products, e-cigarettes, and combustible cigarettes on small airways and arterial stiffness
Klaas F. Franzen (Luebeck, Germany), Isabel Buchwald, Annabelle Hauck, Paul Niklas Axt, Theresa Mohr, Henrik Watz, Frederik Trinkmann, Daniel Drömann

PA5317 Perception of electronic cigarette among young adolescents
Soukaina Hallouli (CASABLANCA, Morocco), Wiam El Khattabi, Hajar Arfaoui, Hasna Jabri, Hicham Afif

PA5318 A comprehensive list of flavorings used in cigarettes
Efthimios Zervas (Patra, Greece), Manos Konstantinidis, Niki Matsouki, Chara Tsipa, Zoe Gareiou

PA5319 MOTIVATION FOR USING HEAT-NOT-BURN TOBACCO DEVICES AND E-CIGARETTES IN UKRAINE
Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy

PA5320 TOBACCO PRODUCT USE AMONG YOUTH IN UKRAINE
Vitalina Harkusha (Vinnytsia, Ukraine), Vitalii Poberezhets, Anna Demchuk, Yuriy Mostovoy

PA5321 A qualitative study of Australian general practitioners on e-cigarettes as a smoking cessation aid
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Chris Barton

PA5322 Tobacco, alcohol and other drugs use among children in middle and high school
Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub Fehri

PA5323 Teenage problem gambling in Ireland – shared risk factors with tobacco, e-cigarette and cannabis use
Salome Sunday (Blackpool, Ireland), Luke Clancy, Joan Hanafin

PA5324 Knowledge, practices, and attitudes of general practitioners in the southern region of Morocco towards smoking
Aboubekr Imzil (Agadir, Morocco), Oussama Halloumi, Abdelkrim Khannous, Abdelmajid Oulahbib, Youness Essaid, Nada Bouibagha, Soufia Farhat, Houssame Ennaciri, Hanane Ikrou, Fatiha Bounoua, Khadija Ait Nasser, Houda Moubachir, Hind Serhane

PA5325 Tunisian physicians’ knowledge of passive smoking
Sarra Ben Sassi (ariana, Tunisia), Ines Moussa, Hana Mrassi, Mariem Friha, Sara Trimench, Imen Sahnoun, Leila Douik El Gharbi

PA5326 Increasing knowledge and awareness of respiratory diseases through an educational programme for nursing students in rural Ghana.
Yazid Imoru (Accra, Ghana), Johannes Martin Schmid

PA5327 Gender differences in smoking-attributable mortality (SAM) by region in Portugal
Sofia Belo Ravara (Covilhã, Portugal), Julia Rey-Brandariz, Esther Lopez-Vizzaino, Maria Isolina Santiago-Pérez, Alberto Ruano-Ravino, Cristina Candal-Pedreira, Leonor Lema-Varela, Nerea Mourino, Pedro Aguiar, Mónica Pérez-Rios

PA5328 Environmental Awareness and Behavior of Smokers and Non-Smokers
Efthimios Zervas (Patra, Greece), Zoe Gareiou, Niki Matsouki, Chara Tsipa, Manos Konstantinidis

PA5329 The impact of tax increases on tobacco use among faculty students
Elif Dagi (Istanbul, Turkey), Murat Tuğberk Bakar, Buğra Arslan, Melike Duymaz, Ibrahim Serhat Karakuş, Zilan Polat, Tanzer Gezer, Pinar Ay

PA5330 Knowledge, attitude and practice of smoking vape among medical students in Karachi, Pakistan.
Eman Sheikh (Karachi, Pakistan), Ashok Kumar

PA5331 Smoking cessation counselling: what do Tunisian medical trainees think?
Hana Blibech (Ariana, Tunisia), Mohamed Aymen Jebra, Houda Snene, Nozha Ben Salah, Sameh Belhaj, Nadia Mehiri, Bechir Louzir

PA5332 Smoking Cessation Practices in a Level 3 Irish Hospital
Niamh Boyle (Celbridge, Ireland), Caitlyn Paclibar, Eric Sheeran Purcell, Mary Menamee, Colm Quigley

PS-8 in poster area  Session 507  16:00 - 17:30
Poster session: SARS-CoV-2, tuberculosis, and breathlessness
Disease(s) : Airway diseases  Sleep and breathing disorders  Thoracic oncology
Method(s) : Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary function testing
Tag(s) : Clinical
Impact of Bronchial Asthma on COVID-19 Sequelae
Yu Nakatani (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 Romeo, Annalisa De Liperi, Sandra Baldacci, Antonio Fidelì, Chiara Cappiello, Luca Visconti, Claudia Meschi, Laura Tavanti, Roberta Pancani, Guido Marchi, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabbirelli, Alessandro Celi, Laura Carrozzo

Associations between socioeconomic parameters and outcomes related to hospitalization with COVID-19.
Søren Sperling (Aarhus N, Denmark), Andreas Floe, Steffen Leth, Charlotte Hyldgaard, Tina Gissel, Ayfer Topcu, Lars Kristensen, Lene Sønderskov Dahl, Søren Jensen-Fangel, Johannes Martin Schmid, Elisabeth Bendstrup

Altitude effect on COVID-19 mortality rate and case incidence in Peru, the country with the highest accumulated mortality rate worldwide
Valeria A. Castillo Uribe (Leipzig, Germany), Zoë L. Contreras Leon, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huayanan, Fernando R. Chu Rivera

Latitude impact on COVID-19 mortality rate and case incidence in Peru, the Andean country with the highest accumulated mortality rate worldwide
Betsabe Cucho (Lima, Peru), Valeria A. Castillo Uribe, Zoë L. Contreras Leon, Roberto Alfonso Accinelli, Leandro Huayanan, Fernando R. Chu Rivera

Shifting COVID-19 case incidence and mortality rate trends during the pandemic in Peru, the country with the highest mortality rate worldwide
Zoë Lucia Contreras Leon (Lima, Peru), Valeria A. Castillo Uribe, Betsabe M. Cucho Vásquez, Roberto Alfonso Accinelli, Leandro Huayanan, Fernando R. Chu Rivera

Long-term sequelae of post-COVID-19 subjects from 19 centres across India
Swapnil Gadhave (Pune, India), Mohankumar Thekkinkattil, Abhinav Chaudhary, Saili Bendre, Parthasarathi Bhattacharyya, Archana B, Malay Sarkar, Girija Nair, Deependra Kumar Rai, Abhay Uppe, Sonali Trivedi, Surya Kant Tripathi, Jitendra Ingole, Sachin D, Nitesh Gupta, Babaji Ghwade, Amit Tade, Mahavir Modi, Loveleen Sharma, Yuvraj Badhe, Pooja Bhalakar, Sundee Salvi

The cost of primary care consultations associated with long COVID in non-hospitalised adults: a retrospective cohort study using UK primary care data
Jake Tufts, Dawit Zemedikun, Anuradhaa Subramanian, Naijie Guan, Puja Myles, Tom Williams, Tom Marshall, Nathalie Calvert, Karen Matthews, Krishnarajah Nirantharakumar, Louise Jackson, Shamil Haroon

SARS-CoV-2 and risk of psychiatric hospital admission and use of psychopharmaceuticals: A nationwide registry study of 4,585,083 adult Danish citizens
Valdemar Rømer (Copenhagen, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Susanne Dam Nielsen, Zitta Barrella Harboe, Jesper Biering-Sørensen, Theis Itenov, Jens-Ulrik Stehr 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, Āsa 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), Anuradhaa Subramanian, Krishnarajah Nirantharakumar, Janet Lord, David C. Wraith

The effects Covid-19 had on the children of health care professionals
Ege Havluêu (Manisa, Turkey), Atalay Özak, Deniz Kizilirmak

IMPACT OF THE COVID19 PANDEMIC ON SURVIVAL OF PATIENTS WITH HOME MECHANICAL VENTILATION(HMV)
Alfredo Marín Muñiz (Castelldefels, Spain), Ana Córdoba Izquierdo, Mikel Sarasate Azkona, Eva Farrero Muñoz, Zara Vidales Sepúlveda, Lluís Mateu Gómez, Salud Santos Pérez, Enric Prats Soro

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 Kovalchuk (Sumy, Ukraine), Victor Kovalchun, Vladyslava Kachkovska, Liudmyla Prystupa
PA5349  Sense of control association to breathlessness: an analysis of 30,000 men and women in the general population.
Max Olsson (Helsingborg, Sweden), Magnus Ekström

PA5350  Can machine learning improve predictive performance of long-term outcomes for adults with breathlessness?
Urvee Karsanji (London, United Kingdom), Michael C Steiner, Claire A Lawson, Emily Petherick, Rachael A Evans, Matthew Richardson

PA5351  Identifying the factors most strongly associated to breathlessness in the general population: an evaluation of 465 different factors using machine learning.
Max Olsson (Helsingborg, Sweden), Magnus Ekström

PA5352  Increasing Medical Research Council breathlessness scores are associated with longer hospital stays
Urvee Karsanji (London, United Kingdom), Vanessa N Brunelli, Slavica Kochovska, Diana Ferreira, Irina Kinchin, Magnus Ekström, Jennifer K Quint, Michael C Steiner, Rachael A Evans, David C Currow

Poster session: Nutrition, lifestyle and obesity in paediatric asthma and allergic rhinitis

Disease(s): Airway diseases, Respiratory critical care
Method(s): Cell and molecular biology, Epidemiology, Pulmonary function testing, Public health, General respiratory patient care, Respiratory intensive care
Tag(s): Clinical

Chairs: Erick Forno (Indianapolis, United States)

PA5353  Asthma and atopy in overweight children
Valentina Cvejoska-Cholakovska (Skopje, North Macedonia), Emilija Vlashki, Vesna Veljki-Stefanovska

PA5354  Data-driven model links BMIz to gene expression in pediatric asthma

PA5355  Late Breaking Abstract - High flow humidified oxygen as an early intervention in children with acute severe asthma - a feasibility randomised controlled trial
Paul Seddon (West Sussex, United Kingdom), Hector Rojas-Anaya, Akshat Kapur, Graham Roberts, Damian Roland, Atul Gupta, Michaela Lazner, David James, Shane Fitzgerald, Fleur Cantle, Stephen Bremner

PA5356  Altered sphingolipid metabolism in childhood asthma and obesity
Antonisamy Belavendra (Doha, Qatar), Harshita Shailesh, Yahya Hani, Safo Noor, Lena Hasabelgavi, Mohammed Alfaki, Shana S Jacob, Saroja Kotegar Balayya, Stefan Worgall, Ibrahim Ahmed Janahi

PA5357  Examining the Longitudinal Association between Smoking Exposure, Atopic Indices, and Allergies during Early Childhood
Chih-Yung Chiu (Taoyuan, Taiwan), Ming-Han Tsai, Kuan-Wen Su, Kuo-Wei Yeh, Jing-Long Huang

PA5358  Clinical usefulness of Electrical Impedance Tomography (EIT) in the evaluation of obese asthmatic children' ventilation: a pilot case-control study
Youssra Belhaj (Milano, Italy), Simone Gambazza, Mara Lelii, Barbara Madini, Alessia Rocchi, Lucia Cerrato, Antonella Gambaduoro, Marta Piotto, Maria Francesca Patria

PA5359  Maternal BMI and smoking as mediators in the maternal education – offspring asthma association in a register-based cohort
Cecilia Lundholm (Stockholm, Sweden), Emma Caffrey Osvald, Samuel Arthur Rhedin, Catarina Almqvist

PA5360  Regular physical activity in children: Does it improve pediatric asthma?
senda derouiche (Tunisia, Tunisia), Sabrine Louhaichi, Siwar Rejeb, Aymen Jebali, Farah Garci, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

PA5361  Prevalence of allergy and asthma in school children and their families in South Punjab, Pakistan
Abdul Mannan Mustafa (Multan, Pakistan), Ghulam Mustafa

PA5362  The impact of the paracetamol use on rhinitis prevalence
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Antonio Acevedo, Angel Lopez-Silvarrey, Maria-Teresa Seoane-Pillado, Francisco-Javier Salgado, Juan-Jose Nieto-Fontarigo, Sonia Pertega, Juan-Manuel Sanchez-Lastres, Miguel-Angel San-Jose, Luis Bamonde, Luciano 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, Pradeesh Sivapalan, Astrid Sevelsted, Klaus Bønnelykke, Charlotte Suppli Ulrik, Jens-Ulrik Stæhr Jensen

“Multi-omics" approach reveals new potential biomarkers in tears of asthmatic children

Marina Attanasi (Chiari (CH), Italy), Maria Concetta Cufaro, Laura Sgrazzutti, 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), Chaïma Baya, Salma Mokaddem, Oumaima Belakhel, Mariem Triki, Ferdaous 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 Tae 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 Zecri, Jamel Ammar, Besma Hamdi, Agnès 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 Tronier Hansen, Klaus Bønnelykke, Bo Chawes, Vibeke Backer, Charlotte Suppli Ulrik, Christian 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 Dellbrügger, Claude Grenzbach, Jonathan Grigg, Eric Haarman, Bulent Karadag, Siri Roßberg, Tina-Maria Weichert, Abigail Whitehouse, Paolo Maria Matricardi, Stephanie Dramburg

Gold Session 509 17:15 - 18:45
Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology
Chair: Ioannis Vogiatzis (Blyth, United Kingdom), Frits M.E. Franssen (Horn, Netherlands)
17:15 Assembly members meeting: presentation, discussion and Q&A
Ioannis Vogiatzis (Blyth, United Kingdom)

Silver Session 510 17:15 - 18:45
Assembly members' meeting: Assembly 2: Respiratory intensive care
Chair: Christian Karagiannidis (Cologne, Germany), João Carlos Winck (Vila Nova de Gaia, Portugal)
17:15 Assembly members meeting: presentation, discussion and Q&A
Christian Karagiannidis (Cologne, Germany)

Coral 4+5 Session 511 17:15 - 18:45
Assembly members' meeting: Assembly 4: Sleep disordered breathing
Chair: Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Esther Irene Schwarz (Zürich, Switzerland)
17:15 Assembly members meeting: presentation, discussion and Q&A
Winfried J. Randerath (Solingen, Germany)

Red 1+2 Session 512 17:15 - 18:45
Assembly members' meeting: Assembly 10: Respiratory infections
Chair: Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Onno Akkerman (Groningen, Netherlands)
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<th>Time</th>
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<tr>
<td>17:15</td>
<td>Brown 3</td>
<td>Session 514</td>
<td>Assembly members' meeting: Assembly 11: Thoracic oncology</td>
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<td>Omar S. Usmani (London, United Kingdom), Najib M. Rahman (ABINGDON, United Kingdom)</td>
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<td>17:15</td>
<td>Brown 1+2</td>
<td>Session 515</td>
<td>Assembly members' meeting: Assembly 12: Interstitial lung diseases</td>
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<td>Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)</td>
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<td>17:15</td>
<td>Blue 1+2</td>
<td>Session 516</td>
<td>Assembly members' meeting: Assembly 13: Pulmonary vascular diseases</td>
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<td>Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
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<td>17:15</td>
<td>Yellow 1+2+3</td>
<td>Session 517</td>
<td>Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy</td>
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<td>Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland)</td>
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<td>17:15</td>
<td>Coral 1</td>
<td>Session 518</td>
<td>Assembly members' meeting: Assembly 7: Paediatrics</td>
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<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada)</td>
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<td>17:15</td>
<td>Coral 2</td>
<td>Session 519</td>
<td>Assembly members' meeting: Assembly 6: Epidemiology and environment</td>
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<td>Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Rafael E. de la Hoz (New York, United States)</td>
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<td>17:15</td>
<td>Purple</td>
<td>Session 520</td>
<td>Assembly members' meeting: Assembly 9: Allied respiratory professionals</td>
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<td>Daniel Langer (Leuven, Belgium), Jellien Makonga-Braaksma (Woudenber, Netherlands)</td>
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<td>Session 521</td>
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<td><strong>Amber 5+6</strong></td>
<td><strong>Assembly members' meeting: Assembly 3: Basic and translational sciences</strong></td>
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<td><strong>Chairs:</strong> H. Irene Heijink (Groningen, Netherlands), Niki L. Reynaert (Maastricht, Netherlands)</td>
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<td><strong>Assembly members meeting: presentation, discussion and Q&amp;A</strong></td>
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<td>H. Irene Heijink (Groningen, Netherlands)</td>
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<th>Session 522</th>
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<td><strong>Amber 7+8</strong></td>
<td><strong>Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation</strong></td>
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<td><strong>Chairs:</strong> Federica Meloni (Pavia (PV), Italy), Marcello Migliore (Riyadh, Saudi Arabia)</td>
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<td><strong>17:15</strong></td>
<td><strong>Assembly members meeting: presentation, discussion and Q&amp;A</strong></td>
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<td>Federica Meloni (Pavia (PV), Italy)</td>
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### Session 523
08:30 - 09:20

**Experts interview: Tobacco, e-cigarette and cannabis epidemic in youth / Indoor air pollution**

*Tag(s):* Clinical

*Chairs:* Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

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<th>Time</th>
<th>Topic</th>
<th>Speaker/Location</th>
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<tr>
<td>08:30</td>
<td>Tobacco, e-cigarette and cannabis epidemic in youth</td>
<td>Elif Dagli (Istanbul, Turkey)</td>
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<td>08:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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<td>08:55</td>
<td>Indoor air pollution</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:10</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Session 525
09:00 - 10:45

**Wednesday special session: How to reduce the tobacco and e-cigarette epidemic in youth**

*Aims:* To provide insights into rapidly increasing prevalence of e-cigarettes, novel nicotine and tobacco products use among adolescents and youth in Italy, Europe and globally. To present the two latest 2023 ERS statements on Tobacco 21 and on Novel nicotine and tobacco products and harm reduction and brainstorm together with the session participants on their implications for both tobacco control and clinical field. To identify, using the example of Italy, existing regulation gaps and discuss how they should be tackled in the tobacco and nicotine endgame strategies to achieve tobacco-free generation goal.

*Tag(s):* Clinical

*Chairs:* Jonathan Grigg (London, United Kingdom), Silvano Gallus (Milano, Italy), Elif Dagli (Istanbul, Turkey)

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<tr>
<td>09:00</td>
<td>Tobacco 21 policies: addressing smoking and ENDS use in young people</td>
<td>Des Cox (Dublin, Ireland)</td>
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<td>09:10</td>
<td>Brainstorming session: how to make 21+ tobacco approach a reality in Europe? Influencing national and EU agenda</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
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<td>09:40</td>
<td>Video testimonial on vaping prevalence in schools and among youth</td>
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<td>09:45</td>
<td>ERS position on harm reduction and novel products</td>
<td>Filippos T. Filippidis (Rickmansworth, United Kingdom)</td>
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<td>09:55</td>
<td>Trends in the use of electronic cigarettes, heated and smokeless tobacco in Italian youth</td>
<td>Silvano Gallus (Milano, Italy)</td>
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<td>10:05</td>
<td>Tobacco-free generation and endgame in Europe</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania)</td>
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<td>10:15</td>
<td>Round table: regulation gaps and how to apply Italian experience across Europe?</td>
<td>Maria Sofia Cattaruzza (Roma (RM), Italy), Speaker to be confirmed</td>
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### Session 526
09:45 - 12:45

**Wednesday special session: How to build a successful, sustainable, international research network?**

*Collaboration, Impact, Empowerment*

*Aims:* This session, led by ERS Clinical Research Collaborations (CRC), and EU projects, draws upon the extensive experience of ERS membership and involvement of ERS and European Lung Foundation (ELF) in consortia. This session aims to explore the journey of building remarkable international research networks through key principles, effective strategies, and best practices, fostering cutting edge research with worldwide impact.

*Target audience:* Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Radiologist, Respiratory physiotherapist
**09:45**  
Introduction and welcome  
All Speakers

**09:50**  
How to build a great consortium: consortium building, stakeholder engagement  
James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal)

**10:10**  
Finding the right fit: defining your topic to fit with the hot topic of the time, addressing co-morbidities, working across disease areas  
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

**10:30**  
How to ensure your project has impact: awareness wider than the respiratory field, policy influence, public awareness  
Herman Goossens (Edegem (Antwerp), Belgium), Rosa Faner Canet (Barcelona, Spain)

**10:50**  
Getting involved in international research networks – patient and caregiver perspectives  
Lucy Dixon (Buckingham, United Kingdom), Zena Powell (Aylesbury, United Kingdom), Theo Schilpzand (Marijenkampen, Netherlands), Stefano Pavanello (Rovigo (RO), Italy)

**11:00**  
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)

**11:10**  
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 527  
09:45 - 12:15

**Wednesday special session: Women’s networking event**  
Connect, collaborate, empower

**Aims:** This event aims to create a platform for respiratory professionals to connect, build relationships, and exchange knowledge and experiences. To encourage collaboration among women in the respiratory profession, fostering partnerships, teamwork, and the sharing of ideas and best practices. To empower women in the respiratory profession by offering career development resources, mentorship programs, and discussions on leadership and advancement opportunities. To highlight the importance of diversity and inclusion in the field of respiratory care, and encourage women from diverse backgrounds to participate and contribute to the event. To collaborate with relevant organisations, national societies, and industry partners.

**Chairs:** Monika Gappa (Düsseldorf, Germany)

**09:45**  
Overflow 1: Welcome  
Monika Gappa (Düsseldorf, Germany), Judith Garcia-Aymerich (Barcelona, Spain)

**10:20**  
Overflow 2: Academia - Women in Science  
Sara Cuevas Ocaña (Nottingham, United Kingdom), Niki Ubags (Epalinges, Switzerland), Silke Meiners (Sülfeld, Germany), Zorana Andersen (Frederiksberg, Denmark)

**10:20**  
Overflow 3: Academia - Women in Patient care/Healthcare  
Monika Gappa (Düsseldorf, Germany), Arzu Yorgancioğlu (Konak, Turkey), Ildikó Horváth (Budakeszi, Hungary), Snezhina Lazova (Sofia, Bulgaria)

**10:20**  
Overflow 4: Women in Industry  
Maria Gabriela Belvisi (Mölndal, Sweden), Juby Anne Jacob-Nara (Hillsborough, United States), Sabine Bartel (Groningen, Netherlands), Sara Jane Bonvini (London, United Kingdom), Tricia Finney-Hayward (London, United Kingdom)

**12:00**  
Overflow 1: Conclusions and take home messages  
All Speakers
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

**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)

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<tr>
<td>09:45</td>
<td>Yes, there is clinical utility in saying someone has ‘mild' asthma</td>
<td>Florence Schleich (Liège, Belgium)</td>
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<td>10:00</td>
<td>No, there is no clinical utility in saying someone has ‘mild' asthma</td>
<td>Johann Christian Virchow (Rostock, Germany)</td>
<td>5419</td>
</tr>
<tr>
<td>10:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>5420</td>
</tr>
</tbody>
</table>

Yellow 1+2+3 Session 529 10:00 - 11:20

Wednesday special session: Excellence in rare diseases care and research: the ERN-Lung initiative the ERN-Lung go East

**Aims:** to present the ERN-LUNG Network and highlight some of its assets achieved during the past years through funding and support by the European Commission and the ERS; to learn from participants about their expectations and needs to better tailor initiative offerings and to offer a better support; to present the following take home messages: 1) There is always someone who knows more about this rare disease than myself; 2) ERN-LUNG is the place where to find and get in contact with this Expert across all of Europe.

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>10:00</td>
<td>What is ERN-LUNG?</td>
<td>Marc Humbert (Le Kremlin-Bicêtre, France), Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
<td>5421</td>
</tr>
<tr>
<td>10:15</td>
<td>How to get involved?</td>
<td>Gergely Meszaros (Vac, Hungary)</td>
<td>5422</td>
</tr>
<tr>
<td>10:25</td>
<td>What can networking do for my patients?</td>
<td>Adam Torbicki (Otwock, Poland)</td>
<td>5423</td>
</tr>
<tr>
<td>10:40</td>
<td>What can ERN-LUNG do for me?</td>
<td>Helge Hebestreit (Wuerzburg, Germany)</td>
<td>5424</td>
</tr>
<tr>
<td>10:55</td>
<td>ERN-LUNG Academy?</td>
<td>Elisabeth Humbert-Dorfmüller (Frankfurt am Main, Germany)</td>
<td>5425</td>
</tr>
<tr>
<td>11:05</td>
<td>ERN-LUNG Patients</td>
<td>Speaker to be confirmed</td>
<td>5426</td>
</tr>
</tbody>
</table>

Red 1+2 Session 530 10:30 - 12:45

Wednesday special session: How can the International Respiratory Coalition help tackle pressures on respiratory healthcare systems?

**Aims:** This session looks at the increased pressure on health systems in specific areas – such as the impact of seasonal burdens and dealing with the respiratory consequences of wildfires, and considers what role the International Respiratory Coalition can have in tackling these pressures.

The International Respiratory Coalition (IRC) is a movement to transform respiratory outcomes in a post pandemic world. Led by the European Respiratory Society, the IRC is a multisectoral partnership bringing together the professional respiratory community, patients and industry. The IRC is currently supporting national-level coalitions, who have joined the movement, as they work towards developing/improving/implementing respiratory strategies based on best practice in their own countries.

**Chairs:** Guy F. Joos (Ghent, Belgium), Anita Simonds (London, United Kingdom)

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Introduction</td>
<td>5427</td>
</tr>
</tbody>
</table>
10:35  Anticipating and coping with seasonal respiratory burdens
       Tobias Welte (Hannover, Germany)

10:55  Seasonal burdens: a global patient advocacy perspective
       Tonya Winders (Hendersonville, United States)

11:15  The way forward in preventing and managing COPD exacerbations
       Marc Miravitlles (Barcelona (CT), Spain)

11:35  Assessing and caring for the respiratory consequences of wildfires
       Christine Jenkins (McMahons Point (NSW), Australia)

11:55  Role of the International Respiratory Coalition
       Carlos Robalo Cordeiro (Coimbra, Portugal)

12:10  Panel discussion: identifying needs and creating a strategy for national IRC coalitions
       Judith Garcia-Aymerich (Barcelona, Spain), Kjeld Hansen (Oslo, Norway), Chantal Raherison-Semjen (Pointe-à-Pitre (Guadeloupe), France), Ellen Ricke (Hillegom, Netherlands), Chris Compton (Brentford, Middlesex, United Kingdom), Christine Harrison (Vernier, Switzerland)

Blue 1+2  Session 531  10:55 - 12:55

Wednesday special session: Building support for clean air policies: empowering the respiratory community to advocate for clean air locally, nationally and internationally

Aims: To engage healthcare professionals and local NGOs with the Healthy Lungs for Life Clean Air campaign. To empower them in community and public engagement, helping them to communicate the necessity of clean air for good lung health in their own communities and to policy makers. To create a network of clean air advocates who can share best practice in engagement and support each other to present evidence from patients and healthcare professionals.

Chairs: Sergio Alfonso Harari (Milano (MI), Italy), Michael Len (Brussels, Belgium)

10:55  Why clean air and why now? What is the latest evidence on clean air and lung health?
       Barbara Hoffmann (Düsseldorf, Germany)

11:10  Why clean air and why now? Why it matters to respiratory patients?
       Kjeld Hansen (Oslo, Norway)

11:25  Why is it important for Milan and Lombardy?
       Francesco Forastiere (Roma (RM), Italy)

11:40  How can we achieve change: working in partnership - C40

11:55  How can we achieve change: From science to policy, how we can make an impact
       Anne Stauffer (Brussels, Belgium)

12:10  How can we achieve change: communication and events
       Pippa Powell (Sheffield (South Yorkshire), United Kingdom)

12:25  How can we achieve change: creating your legacy
       Anna Gerometta (Milano, Italy)

12:40  Call to action for clean air to Milan and Europe in light of the Ambient Air Quality Directive

Studio (White)  Session 532  11:00 - 11:15

News from the studio: Congress wrap-up

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Nicolas Roche (Paris, France)

11:00  Discussion and Q&A
       All Speakers
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)
### Session 273
**Session world village: Meet with the ECMC representatives**

**Chairs:** Maria Joana Pereira Catarata (Porto, Portugal), Dorina Rama Esendagli (Ankara, Turkey), Karen Moor (Rotterdam, Netherlands)

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<tr>
<td>12:00</td>
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### Session 306
**Session world village: Meet with the ECMC representatives: How to increase your visibility and network as ECM**

**Chairs:** Susanne Vijverberg (Amsterdam, Netherlands), Joana Cruz (Leiria, Portugal), Matteo Bradicich (Zollikerberg, Switzerland)

<table>
<thead>
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<tr>
<td>13:00</td>
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</table>
ERS Stand/World Village  
Session 430  
12:00 - 13:00

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)
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.
No Room  Session  18:00 - 19:00

Rehearsal: Opening Session rehearsal
### Coral 1 Session 45 07:15 - 08:15
**Industry early morning symposium: On-Therapy Remission in Pediatric Asthma: Where Are We Today?**
*Organised by Sanofi Regeneron*

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<th>Time</th>
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<tbody>
<tr>
<td>07:15</td>
<td>Welcome</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
<td>259</td>
</tr>
<tr>
<td>07:20</td>
<td>Progression of Underlying Disease in Pediatric Severe Asthma</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
<td>260</td>
</tr>
<tr>
<td>07:35</td>
<td>Panel Discussion - All faculty</td>
<td>All Speakers</td>
<td>261</td>
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<tr>
<td>07:45</td>
<td>Assessing Disease Activity to Better Define On-Treatment Clinical Remission in Pediatric Severe Asthma</td>
<td>Sharon Dell (Vancouver, British Columbia, Canada)</td>
<td>262</td>
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<tr>
<td>08:05</td>
<td>Question and Answer - All faculty</td>
<td>All Speakers</td>
<td>263</td>
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</table>

### Purple Session 46 07:15 - 08:15
**Industry early morning symposium: Practical Advances in Front-Line Strategies for Optimizing Clinical Outcomes in MAC Lung Disease**
*Organised by Insmed*

**Chairs:** Christoph Lange (Borstel, Germany)

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<th>Time</th>
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<tbody>
<tr>
<td>07:15</td>
<td>Chair’s Introduction and Program Overview</td>
<td>Christoph Lange (Borstel, Germany)</td>
<td>264</td>
</tr>
<tr>
<td>07:30</td>
<td>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</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
<td>265</td>
</tr>
<tr>
<td>07:45</td>
<td>Translating ATS/IDSA/ERS/ESCMID Guideline-Directed Management Pathways and Clinical Trial Results in NTM-PD to the Front Lines of Patient Care: Focus on High-Risk Patients and Clinical Findings Predictive of Refractory MAC Pulmonary Disease</td>
<td>David E. Griffith (Denver, United States)</td>
<td>266</td>
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<tr>
<td>08:00</td>
<td>Completing the Journey from Diagnosis to Cure in MAC Lung Disease: Practical Approaches to Ensure Drug Toleration, Minimize Side Effects, and Optimize Regimen Adherence with Inhaled Antimicrobial Formulations—Translating Trial-Based Results to Real World, Side Effect-Mitigating Patient Care</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>267</td>
</tr>
</tbody>
</table>

### Amber 5+6 Session 48 08:00 - 08:45
**Industry Skills Lab Workshop: Thoracic Ultrasound – pleural and emergency care. Practical expertise on how to carry out this everyday practice.**
*Organised by FUJIFILM*

**Chairs:** Maarten Criel (Leuven, Belgium)

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<th>Time</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Hands On</td>
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<td>269</td>
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### Amber 7+8 Session 49 08:00 - 08:45
**Industry Skills Lab Workshop: Clinical decisions for better Mask Management**
*Organised by Philips*

**Chairs:** Teofilo Lee-Chiong (Denver, United States)

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<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Impact of Mask Choice on CPAP therapy outcomes</td>
<td>Pedro Rodrigues Genta (São Paulo (SP), Brazil)</td>
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<td>Time</td>
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<td>08:20</td>
<td>Clinical Cases</td>
<td>Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)</td>
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<tr>
<td>08:35</td>
<td>Hands on</td>
<td>Faycal Abdenbi (Goussainville, France)</td>
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<tr>
<td>10:30</td>
<td>Amber 5+6</td>
<td>Industry Skills Lab Workshop: Improving NIV management with deep dive into high resolution data</td>
<td>Organised by ResMed</td>
</tr>
<tr>
<td>10:30</td>
<td>The curves of AirView for ventilation and ResScan and how to interpret information</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
<td></td>
</tr>
<tr>
<td>10:48</td>
<td>How to discover any issues and when to consult ResScan</td>
<td>OLIVIER SAGNARD (Saint Priest, France)</td>
<td></td>
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<tr>
<td>11:00</td>
<td>Hands On</td>
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<tr>
<td>10:30</td>
<td>Amber 7+8</td>
<td>Industry Skills Lab Workshop: Improving workflow using automated ventilation technologies in the hospital and home</td>
<td>Organised by Philips</td>
</tr>
<tr>
<td>10:30</td>
<td>Hospital perspective: Improving workflow using automated ventilation technologies</td>
<td>Maxime Patout (Paris, France)</td>
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<tr>
<td>10:45</td>
<td>Home perspective: Improving workflow using automated ventilation technologies</td>
<td>Swapna Mandal (London, United Kingdom)</td>
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<td>11:00</td>
<td>Hands On</td>
<td>Julie Yarascavitch (Encinitas, United States)</td>
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<tr>
<td>12:15</td>
<td>Gold</td>
<td>Industry Lunchtime Symposium: Improving respiratory care by listening to patients needs</td>
<td>Organised by Chiesi Farmaceutici S.p.A.</td>
</tr>
<tr>
<td>12:15</td>
<td>Welcome and Introduction</td>
<td>Mario Tozzi (; Italy)</td>
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<tr>
<td>12:25</td>
<td>From BPD to COPD: early origins of chronic lung diseases</td>
<td>Anne Greenough (London, United Kingdom)</td>
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<tr>
<td>12:35</td>
<td>Different approach in listening to people with respiratory diseases. The Human Factor Study</td>
<td>Nicola Scichilone (Palermo (PA), Italy)</td>
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<tr>
<td>12:55</td>
<td>How small airway diseases are relevant for the patients? Asthma and COPD insights</td>
<td>Monica Kraft (New York, United States)</td>
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<tr>
<td>13:05</td>
<td>Summary and close</td>
<td>Mario Tozzi (; Italy)</td>
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<tr>
<td>12:15</td>
<td>Silver</td>
<td>Industry Lunchtime Symposium: Cardiopulmonary risk: a new perspective in COPD management</td>
<td>Organised by AstraZeneca</td>
</tr>
<tr>
<td>12:15</td>
<td>Welcome, introduction and opening remarks</td>
<td>Mona Bafadhel (London, United Kingdom)</td>
<td></td>
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</tbody>
</table>
12:17  COPD through a different lens: the implications of COPD-driven cardiopulmonary risk
Paola Rogliani (Roma (RM), Italy)

12:32  Panel discussion | Expanding our view of COPD: looking at the lungs and beyond
Daiana Stolz (Freiburg, Germany)

12:42  Focusing on proactive management: preventing exacerbations and reducing mortality with triple therapy
Mona Bafadhel (London, United Kingdom)

12:58  Reflections from a cardiologist: the importance of mortality reduction
Chris Gale (Leeds, United Kingdom)

13:03  Panel discussion | Visualising the future: driving a proactive and multidisciplinary approach
Daiana Stolz (Freiburg, Germany)

13:13  Summary and close
Mona Bafadhel (London, United Kingdom)

Coral 4+5  Session 123  12:15 - 13:15
Industry Lunchtime Symposium: Clinical Remission: Reimagine the outcomes for Severe Asthma patients
Organised by GSK
Chairs: Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:15  Welcome and introductions
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:20  Realising Clinical Remission: the true impact of delayed intervention
Tonya Winders (Hendersonville, United States), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

12:25  Challenging the consensus: implementing a predict and prevent approach to care
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Tonya Winders (Hendersonville, United States), Peter Gibson (Newcastle, Australia)

12:40  Panel discussion: Clinical Remission: how do we make it happen in practice? - All faculty
All Speakers

12:55  Anti-IL-5 in an evolving treatment paradigm
Enrico Marco Heffler (Milano, Italy)

13:10  Summary and close
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

Coral 3  Session 124  12:15 - 13:15
Industry Lunchtime Symposium: The Importance of Pneumococcal Vaccination in Adult Patients with Pulmonary Disease
Organised by Pfizer
Chairs: Francesco Blasi (Milan, Italy)

12:15  Welcome and Opening Remarks
Francesco Blasi (Milan, Italy)

12:20  The Public Health Impact of Pneumococcal Vaccination in Adults with Pulmonary Diseases
Eva Polverino (Barcelona, Spain)

12:40  Making a Strong Recommendation for Pneumococcal Vaccination
Gernot G.U. Rohde (Frankfurt am Main, Germany)

13:00  Faculty Discussion and Q&A Session - All faculty
All Speakers

13:14  Closing Remarks
Francesco Blasi (Milan, Italy)
### Coral 1  
**Session 125**  
**12:15 - 13:15**  

**Industry Lunchtime Symposium: From Theory to Practice: Improving COPD and Asthma Patients Care**  
*Organised by Menarini group*  

**Chairs:** Fabiano Di Marco (Milan, Italy)

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<tbody>
<tr>
<td>12:15</td>
<td><strong>Introduction</strong></td>
<td>Fabiano Di Marco (Milan, Italy)</td>
</tr>
<tr>
<td>12:20</td>
<td><strong>The Gold Standard for starting treatment in COPD</strong></td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>12:35</td>
<td><strong>Inhaled corticosteroids in COPD: who and when?</strong></td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>12:50</td>
<td><strong>Optimal Strategies in Asthma Management</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>13:05</td>
<td><strong>Q&amp;A - All faculty</strong></td>
<td>All Speakers</td>
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### Coral 2  
**Session 126**  
**12:15 - 13:15**  

**Industry Lunchtime Symposium: The airway epithelium as an immune-functioning organ: A key driver in the pathogenesis of upper and lower respiratory disease**  
*Organised by AstraZeneca*

**Chairs:** Celeste Michala Porsbjerg (Copenhagen, Denmark)

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<tbody>
<tr>
<td>12:15</td>
<td><strong>Welcome &amp; Introduction</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>12:18</td>
<td><strong>The role of the airway epithelium as a critical immune-functioning organ</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>12:28</td>
<td><strong>Bronchial and nasal epithelium: are they the same?</strong></td>
<td>Marco Caminati (Verona (VR), Italy)</td>
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<tr>
<td>12:38</td>
<td><strong>The epithelium: from pathogenesis to the clinic, and the use of biomarkers</strong></td>
<td>Delbert Dorscheid (Vancouver (BC), Canada)</td>
</tr>
<tr>
<td>12:48</td>
<td><strong>The role of epithelial cytokines in asthma control and remission</strong></td>
<td>Pascal Chanez (Marseille, France)</td>
</tr>
<tr>
<td>12:58</td>
<td><strong>Learnings from the epithelium: implications for patient care and future opportunities</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>13:14</td>
<td><strong>Symposium close</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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### Purple  
**Session 127**  
**12:15 - 13:15**  

**Industry Lunchtime Symposium: Mastering Integrated Respiratory Care: An expert-led interactive case study series, with a focus on vaccination**  
*Organised by GSK*  

**Chairs:** Claudio Micheletto (S.Giovanni Lupatoto, Italy)

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<tbody>
<tr>
<td>12:15</td>
<td><strong>Welcome and introduction: importance of holistic approach to patient care</strong></td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
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<tr>
<td>12:25</td>
<td><strong>Case study 1: Your COPD patient</strong></td>
<td>Barbara Yawn (Blaine, United States)</td>
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<tr>
<td>12:37</td>
<td><strong>Case study 2: Your Asthma patient</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
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### Industry Virtual Channel | Session 149 | 12:45 - 13:45

**Industry Virtual Symposium: Improving outcomes in hospitalised patients with COVID-19: Perspectives from across the disciplines**  
*Organised by Gilead Sciences Europe Ltd*  
**Chairs:** Tobias Welte (Hannover, Germany)

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<tr>
<td>12:45</td>
<td>Welcome and introduction</td>
<td>Tobias Welte (Hannover, Germany)</td>
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</tr>
<tr>
<td>12:50</td>
<td>Navigating the COVID-19 disease landscape</td>
<td>Eva Polverino (Barcelona, Spain)</td>
<td>1350</td>
</tr>
<tr>
<td>13:00</td>
<td>How are data guiding the management of COVID-19?</td>
<td>Robert Gottlieb (Dallas, United States), Tobias Welte (Hannover, Germany)</td>
<td>1351</td>
</tr>
<tr>
<td>13:25</td>
<td>Finding our way with individualised treatment - All faculty</td>
<td>All Speakers</td>
<td>1352</td>
</tr>
<tr>
<td>13:40</td>
<td>Summary and meeting close</td>
<td>Tobias Welte (Hannover, Germany)</td>
<td>1353</td>
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### Brown 3 | Session 150 | 12:45 - 13:45

**Industry Lunchtime Symposium: Beyond Asthma Control in Severe Type 2 Asthma Management**  
*Organised by Sanofi Regeneron*  
**Chairs:** Klaus F. Rabe (Kiel, Germany)

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<td>12:45</td>
<td>Opening Remarks - All faculty</td>
<td>All Speakers</td>
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<tr>
<td>12:50</td>
<td>Understanding the Patient Phenotypes of Type 2 Asthma</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
<td>1355</td>
</tr>
<tr>
<td>13:00</td>
<td>Beyond Control With Dupilumab in Type 2 Asthma</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
<td>1356</td>
</tr>
<tr>
<td>13:10</td>
<td>Is Freedom From OCS-Dependence Possible? Review of the Evidence for Dupilumab</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
<td>1357</td>
</tr>
<tr>
<td>13:20</td>
<td>Panel DiscussionReconsidering Long-Term Goals Beyond Control for Severe Asthma Management - All faculty</td>
<td>All Speakers</td>
<td>1358</td>
</tr>
<tr>
<td>13:30</td>
<td>Audience Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td>1359</td>
</tr>
<tr>
<td>13:40</td>
<td>Closing Remarks - All faculty</td>
<td>All Speakers</td>
<td>1360</td>
</tr>
</tbody>
</table>

### Yellow 1+2+3 | Session 152 | 12:45 - 13:45

**Industry Lunchtime Symposium: Can the immune system be primed to prevent recurrent respiratory tract infections in children?**  
*Organised by OM Pharma SA*  
**Chairs:** Susanna Esposito (Milano (MI), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>12:45</td>
<td>Role of pulmonologists in the prevention of vaccine-preventable diseases</td>
<td>Rosario Menendez Villanueva (Valencia, Spain)</td>
<td>947</td>
</tr>
<tr>
<td>13:01</td>
<td>Panel discussion and Q&amp;A session - All faculty</td>
<td>All Speakers</td>
<td>948</td>
</tr>
<tr>
<td>13:11</td>
<td>Summary and close</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td>949</td>
</tr>
</tbody>
</table>
Welcome & introduction
Susanna Esposito (Milano (MI), Italy)

Understanding the potential of bacterial lysates exposure for the prevention of childhood recurrent respiratory tract infections
Erika von Mutius (München, Germany)

Role of immunomodulation in children with recurrent respiratory tract infections and wheezing
Manuel Soto Martínez (San José, Costa Rica)

Summary & concluding remarks
Susanna Esposito (Milano (MI), Italy)

Q&A - All faculty
All Speakers

Amber 5+6 Session 161 14:00 - 14:45
Industry Skills Lab Workshop: The role of Eucapnic Voluntary Hyperpnea challenges in the diagnosis and management of lower airway dysfunction in physically active patients and athletes.
The role of Eucapnic Voluntary Hyperpnea challenges in the diagnosis and management of lower airway dysfunction in physically active patients and athletes.
Organised by GANSCHORN Medizin Electronic GmbH
Aims: to inform people, to present studies
Chairs: John Dickinson (Canterbury, United Kingdom), James H. Hull (London, United Kingdom)

14:00 Introduction of the Eucapnic Voluntary Hyperpnea (EVH) Test: How is the test done and what are the indications. Presentation of current scientific findings.
James H. Hull (London, United Kingdom)

14:20 Comparison of spirometry and oscillometry as a tool for grading the bronchoconstriction
John Dickinson (Canterbury, United Kingdom)

14:30 A Live-demonstration of the EucapSys EVH device, use of oscillometry as a diagnostic tool and the possibility for hands-on usage.
James H. Hull (London, United Kingdom)

Amber 7+8 Session 162 14:00 - 14:45
Industry Skills Lab Workshop: CPAP therapy and cardiovascular outcomes - what have we learned from real-life cohorts?
Organised by ResMed
Chairs: Sophia E. Schiza (Heraklion, Greece), Andreas Palm (Uppsala, Sweden)

14:00 CPAP therapy and cardiovascular outcomes.
Frédéric Gagnadoux (Orvault, France)

14:18 Phenotype and patient centric approaches with CPAP therapy
Raphael Heinzer (Lausanne, Switzerland)

Amber 5+6 Session 177 15:30 - 16:15
Industry Skills Lab Workshop: Make a Lung-Term Impact: Strengthen Your Procedure Skills in Interventional Pulmonology
Organised by OLYMPUS EUROPA SE & CO. KG
Chairs:

15:30 EBUS-TBNA: Handling all procedure steps safely and efficiently
Antonio Bughalo

15:30 Peripheral bronchoscopy: Plan, access and identify peripheral lesions for successful sampling
Ales Rozman

15:30 Emphysema and air leak treatment with EVIS X1: Elevating the standard of therapeutic interventions
15:30 Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity
Mohammed Munavvar

**Amber 7+8**  
**Session 178**  
**15:30 - 16:15**  
**Industry Skills Lab Workshop: Innovative clinical practice in home HFT. Titration, follow up and best practice**  
*Organised by ResMed*  
**Chairs:** Patrick B. Murphy (Oxted (Surrey), United Kingdom)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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<tbody>
<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>
</tr>
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16:06

16:24

**Coral 3**  
**Session 205**  
**17:30 - 19:00**  
**Industry evening symposium: A Journey Through the Spectrum of Pulmonary Fibrosis**  
*Organised by Boehringer Ingelheim International GmbH*  
**Chairs:** Luca Richeldi (Roma, Italy)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Luca Richeldi (Roma, Italy)</td>
</tr>
<tr>
<td>17:40</td>
<td>Diagnosis and treatment of pulmonary fibrosis: where are we now?</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>17:55</td>
<td>Interstitial lung abnormalities: a call to action?</td>
<td>Sara Tomassetti (Florence, Italy)</td>
</tr>
<tr>
<td>18:10</td>
<td>Progressive pulmonary fibrosis: the end of the spectrum?</td>
<td>Elisabetta Renzoni (London, United Kingdom)</td>
</tr>
<tr>
<td>18:25</td>
<td>Research in pulmonary fibrosis: where are we going?</td>
<td>Fernando J. Martinez (New York, United States)</td>
</tr>
<tr>
<td>18:40</td>
<td>Q&amp;A - All faculty</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Brown 1+2**  
**Session 206**  
**17:30 - 19:00**  
**Industry evening symposium: Advancing the Understanding of COPD: A Pathophysiological Perspective of Disease**  
*Organised by Sanofi Regeneron*  
**Chairs:** MeiLan K. Han (Ann Arbor, United States)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Opening Remarks - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>17:35</td>
<td>COPD a Progressive Airway Disease Shaped by Exacerbitations</td>
<td>Frank Sciurba (Pittsburgh, United States)</td>
</tr>
<tr>
<td>17:50</td>
<td>Characterization of COPD: Emerging Phenotypes and Endotypes</td>
<td>MeiLan K. Han (Ann Arbor, United States)</td>
</tr>
<tr>
<td>18:05</td>
<td>Panel DiscussionExtending Beyond the Pink Puffer and Blue Bloater: What Role Do Novel Phenotypes Play in the Clinic? - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>18:15</td>
<td>Understanding Inflammatory Pathways Driving the Pathophysiology of COPD</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
</tbody>
</table>
## Blue 1+2  
Session 207  
17:30 - 19:00

**Industry evening symposium: Respiratory care: How to optimize patient outcomes with environmental responsibility**

*Organised by Orion Pharma*

**Chairs:** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction: The virtuous cycle of patient partnerships, improved outcomes, and sustainable respiratory care</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>17:40</td>
<td>Why climate change and environmental sustainability is everybody's problem</td>
<td>Rachel Huxley (Melbourne, Australia)</td>
</tr>
<tr>
<td>17:50</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>18:00</td>
<td>How sustainable global pharmaceutical regulations are impacting supply chains: What this could mean for your patients</td>
<td>John Pritchard (Newtown Linford, United Kingdom)</td>
</tr>
<tr>
<td>18:10</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:15</td>
<td>Combining sustainable interventions with optimal patient outcomes: Lessons learned from adult-onset asthma phenotypes</td>
<td>Hannu Kankaanranta (Seinäjoki, Finland)</td>
</tr>
<tr>
<td>18:25</td>
<td>The UK view on sustainable clinical decision-making in respiratory care</td>
<td>Alexander Wilkinson (Hertfordshire, United Kingdom)</td>
</tr>
<tr>
<td>18:35</td>
<td>The Nordic view on sustainable clinical decision-making in respiratory care</td>
<td>Christer Janson (Uppsala, Sweden)</td>
</tr>
<tr>
<td>18:45</td>
<td>Q&amp;A discussion</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:55</td>
<td>Summary and close</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
</tbody>
</table>

## Yellow 1+2+3  
Session 208  
17:30 - 19:00


*Organised by Janssen Pharmaceutica NV*

**Chairs:** Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)

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<tr>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introductions</td>
<td>Sean Gaine (Dublin, Ireland), Silvia Ulrich (Zurich, Switzerland)</td>
</tr>
<tr>
<td>17:35</td>
<td>Unravelling unexplained dyspnoea</td>
<td>Athénaïs Boucly (Le Kremlin Bicêtre, France)</td>
</tr>
<tr>
<td>18:05</td>
<td>Initial management and follow-up of PAH</td>
<td>Vasile Foris (Graz, Austria)</td>
</tr>
<tr>
<td>18:25</td>
<td>Individualising treatment in patients with PAH and comorbidities</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
</tr>
</tbody>
</table>
Coral 1  
**Session 209**  
17:30 - 19:00

Industry evening symposium: What do the GOLD 2023 updated recommendations mean for your patients living with COPD?

*Organised by GSK*

**Chairs:** Alberto Papi (Cona, Ferrara, Italy), Jadwiga Wedzicha (London, United Kingdom)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Opening and introduction</strong></td>
<td>Alberto Papi (Cona, Ferrara, Italy), Jadwiga Wedzicha (London, United Kingdom)</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>GOLD 2023 update: Implications for pharmacological COPD management</strong></td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
</tr>
<tr>
<td>17:50</td>
<td><strong>Patient burden of living with COPD: Putting timely treatment optimisation into practice</strong></td>
<td>Jadwiga Wedzicha (London, United Kingdom)</td>
</tr>
<tr>
<td>18:00</td>
<td><strong>Evolutions in molecular pharmacology to maximise patient benefits</strong></td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>18:15</td>
<td><strong>Device selection principles in COPD management to optimise patient outcomes</strong></td>
<td>David M. G. Halpin (Exeter, United Kingdom)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>From theory to practice: Real-world evidence of triple therapy in COPD management</strong></td>
<td>David M. G. Halpin (Exeter, United Kingdom)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Q&amp;A - All faculty</strong></td>
<td>All Speakers</td>
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Coral 2  
**Session 210**  
17:30 - 19:00

Industry evening symposium: Severe asthma treatment paradigm change: how much further can we go after reducing OCS treatment?

*Organised by AstraZeneca*

**Chairs:** Matteo Bonini (Rome, Italy)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Chair’s welcome</strong></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>
<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>
<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? - All faculty</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>18:35</td>
<td><strong>Background treatment reduction: how far can we go in severe asthma?</strong></td>
<td>Stephanie Korn (Mainz, Germany)</td>
</tr>
<tr>
<td>18:50</td>
<td><strong>Q&amp;A and close</strong></td>
<td>All Speakers</td>
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Purple  
**Session 211**  
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)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Introduction and patient case study overview</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
</tbody>
</table>
17:45  Delving deeper into this patient’s pathophysiology  
Anne O'Donnell (Washington, United States)  
2012

17:55  Management of infection: the key driver of bronchiectasis  
Charles Haworth (Cambridge, United Kingdom)  
2013

18:10  Bronchiectasis is an inflammatory condition  
Eva Polverino (Barcelona, Spain)  
2014

18:20  Management of inflammation: the key driver of bronchiectasis  
Pieter Goeminne (Bornem, Belgium)  
2015

18:40  Panel discussion & summary - All faculty  
All Speakers  
2016

Amber 5+6  Session 212  17:30 - 19:00

Industry evening mini symposium: Opening our Minds and Airways in Severe Lung Disease  
Organised by Grifols

Chairs : Francesco Blasi (Milan, Italy)

17:30  Welcome and introduction  
Francesco Blasi (Milan, Italy)  
2017

17:35  NCFBE- What to do when things get tricky?  
Francesco Blasi (Milan, Italy)  
2018

17:53  Severe asthma and AATD– Cause or comorbidity?  
Laura Pini (Brescia (BS), Italy)  
2019

18:11  Alpha-1 Antitrypsin deficiency- What’s around the bend?  
Jose Luis López-Campos Bodineau (Sevilla, Spain)  
2020

18:29  Pulmonary rehabilitation: Old questions- new answers!?  
Andreas Rembert Koczulla (Schönaü am Königssee, Germany)  
2021

18:47  Final discussion  
Francesco Blasi (Milan, Italy)  
2022

18:55  ALTA-award ceremony  
Marion Trautmann (Frankfurt am Main, Germany)  
2023

18:58  Summary and Close  
Francesco Blasi (Milan, Italy)  
2024

Amber 7+8  Session 213  17:30 - 19:00

Industry evening mini symposium: Timing is key: Unlocking the tools to identify progression and improve outcomes in cystic fibrosis  
Organised by Vertex Pharmaceuticals (Europe) Ltd

Chairs : Stefano Aliberti (Milano (MI), Italy)

17:30  Chair's welcome and introduction  
Stefano Aliberti (Milano (MI), Italy)  
2025

17:40  From the beginning: Early manifestations of CF  
Maria del Carmen Luna (Madrid, Spain)  
2026

17:55  Through the ages: Tracking lung disease  
Mirjam Stahl (Berlin, Germany)  
2027

18:15  Futureproofing CF care in the pulmonology department: A view from Italy  
Andrea Gramegna (Milano (MI), Italy)  
2028

18:35  Panel discussion and Q&A Looking to the future: The evolving needs of CF - All faculty  
All Speakers  
2029
18:55 Summary and close
Stefano Aliberti (Milano (MI), Italy)
### Amber 7+8 Session 216 08:00 - 08:45

**Industry Skills Lab Workshop: East meets West - global best practices**  
*Organised by Erbe Elektromedizin GmbH*

**Chairs:** Pallav L. Shah (London, United Kingdom), Jürgen Hetzel (, Switzerland)

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<tbody>
<tr>
<td>08:00</td>
<td>Hands on</td>
<td>2 x transbronchial cryobiopsy, 2 x central airway obstruction</td>
<td>Jürgen Hetzel (, Switzerland), Pallav L. Shah (London, United Kingdom)</td>
</tr>
</tbody>
</table>

### Amber 5+6 Session 262 10:30 - 11:15

**Industry Skills Lab Workshop: The indication of use of ASV therapy, from evidence to clinical practice**  
*Organised by ResMed*

**Chairs:** Anita Simonds (London, United Kingdom), Holger Woehrle (Ulm, Germany)

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<tbody>
<tr>
<td>10:30</td>
<td>What evidence-based medicine says about ASV therapy</td>
<td>Michael Arzt (Regensburg, Germany)</td>
<td></td>
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<tr>
<td>10:48</td>
<td>The indication of use of ASV therapy</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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### Amber 7+8 Session 263 10:30 - 11:15

**Industry Skills Lab Workshop: A virtual based approach to improve CPAP Therapy**  
*Organised by Philips*

**Chairs:** Stefania Redolfi (Cagliari, Italy)

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<th>Time</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Introduction to CPAP Therapy and Telemedicine</td>
<td>Stefania Redolfi (Cagliari, Italy)</td>
<td></td>
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<tr>
<td>10:35</td>
<td>Improving sleep apnea management using technological advancements</td>
<td>Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)</td>
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<tr>
<td>11:00</td>
<td>Hands On</td>
<td>Faycal Abdenbi (Goussainville, France), Mikel Azpiazu Blocona (Vitoria-Gasteiz, Spain)</td>
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### Gold Session 274 12:15 - 13:15

**Industry Lunchtime Symposium: Transforming asthma care for a broad population of severe asthma patients**  
*Organised by AstraZeneca*

**Chairs:** Enrico Marco Heffler (Milano, Italy)

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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>
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<tr>
<td>12:50</td>
<td>Clinical experience with targeting TSLP - All faculty</td>
<td>All Speakers</td>
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<tr>
<td>13:05</td>
<td>Audience Q&amp;A and close</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
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</table>

### Silver Session 275 12:15 - 13:15

**Industry Lunchtime Symposium: Targeting COPD With Type 2 Inflammation: Emerging Biologic Landscape**  
*Organised by Sanofi Regeneron*
### Welcome and Objectives
Klaus F. Rabe (Kiel, Germany)  
12:15

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### Contextualizing Clinical Consequences of COPD Through Disease Pathology
Klaus F. Rabe (Kiel, Germany)  
12:20

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### Heterogeneity of Inflammatory Pathways in COPD
Stephanie Christenson (San Francisco, United States)  
12:30

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### The Evolving Clinical Landscape in COPD and Implications for Disease Management
Dave Singh (Manchester, United Kingdom)  
12:40

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### Panel Discussion and Q&A - All faculty
All Speakers  
13:00

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### Coral 4+5 Session 276 12:15 - 13:15

**Industry Lunchtime Symposium: The next phase in proactive asthma management? Steps towards patient-focused personalised care**  
Organised by GSK

**Chairs:** Anurita Majumdar (Singapore)

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<tr>
<td>12:15</td>
<td>Introduction and welcome</td>
<td>Anurita Majumdar</td>
<td>Singapore</td>
<td>2649</td>
</tr>
<tr>
<td>12:20</td>
<td>Unmet needs in asthma management: APPaRENT calls for progress</td>
<td>Kenneth R. Chapman (Toronto, ON, Canada)</td>
<td>Canada</td>
<td>2650</td>
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<tr>
<td>12:35</td>
<td>Clinical views on asthma control: Patient traits that affect treatment fates</td>
<td>Gabriel Garcia (Ciudad Autónoma Buenos Aires, Argentina)</td>
<td>Argentina</td>
<td>2651</td>
</tr>
<tr>
<td>12:50</td>
<td>Exploring patient factors: Personalising asthma care through shared decision-making</td>
<td>Kim Lavoie (Montréal (QC), Canada)</td>
<td>Canada</td>
<td>2652</td>
</tr>
<tr>
<td>13:00</td>
<td>Q&amp;A - All faculty</td>
<td>All Speakers</td>
<td></td>
<td>2653</td>
</tr>
<tr>
<td>13:10</td>
<td>Summay and close</td>
<td>Anurita Majumdar</td>
<td>Singapore</td>
<td>2654</td>
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### Coral 3 Session 277 12:15 - 13:15

**Industry Lunchtime Symposium: Pulmonary Arterial Hypertension in the Patient with Comorbidities**  
Organised by MSD

**Chairs:** Stephan Rosenkranz (Köln, Germany)

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<tbody>
<tr>
<td>12:15</td>
<td>Outcomes in PAH patients with comorbidities</td>
<td>Marius M. Hoeper</td>
<td>Hannover, Germany</td>
<td>2655</td>
</tr>
<tr>
<td>12:25</td>
<td>Characteristics and treatment of the PAH patient with comorbidities- US perspective</td>
<td>Mardi Gomberg-Maitland (Chicago, United States)</td>
<td>United States</td>
<td>2656</td>
</tr>
<tr>
<td>12:35</td>
<td>Relevance of comorbidities on initial combination therapy in pulmonary arterial hypertension</td>
<td>Roberto Badagliacca (Rome, Italy)</td>
<td></td>
<td>2657</td>
</tr>
<tr>
<td>12:45</td>
<td>Challenges faced in clinical decision making when PAH patients present with cardiopulmonary comorbidities</td>
<td>Jean-Luc Vachiery</td>
<td>Bruxelles, Belgium</td>
<td>2658</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</td>
<td>Köln, Germany</td>
<td>2659</td>
</tr>
<tr>
<td>13:00</td>
<td>Round Table Q&amp;A/discussion</td>
<td>Stephan Rosenkranz</td>
<td>Köln, Germany</td>
<td>2660</td>
</tr>
</tbody>
</table>
Coral 1  

Industry Lunchtime Symposium: IL-5 inhibition: An airways disease-modifying strategy?  
*Organised by GSK*  
**Chairs:** Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:15</td>
<td>Welcome</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)</td>
</tr>
<tr>
<td>12:20</td>
<td>IL-5 and eosinophil interactions in asthma disease progression</td>
<td>Kathleen Buchheit (Boston, United States)</td>
</tr>
<tr>
<td>12:30</td>
<td>The impact of IL-5 on structural airway remodelling in asthma</td>
<td>Konstantinos Porpodis (Thessaloniki, Greece)</td>
</tr>
<tr>
<td>12:40</td>
<td>The impact of IL-5 on mucus plugging in asthma</td>
<td>Jens Vogel-Claussen (Hannover, Germany)</td>
</tr>
<tr>
<td>12:50</td>
<td>The impact of IL-5 on lung function in asthma</td>
<td>Salman Siddiqui (London, United Kingdom)</td>
</tr>
<tr>
<td>13:00</td>
<td>Q&amp;A and concluding comments</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Hitasha Rupani (Southampton, United Kingdom)</td>
</tr>
</tbody>
</table>

Coral 2  

Industry Lunchtime Symposium: Early-stage NSCLC: ensuring effective, personalised treatment through accurate diagnoses  
*Organised by AstraZeneca*  
**Chairs:** Kostas Syrigos (Athens, Greece)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Information</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>12:30</td>
<td>Case study 2: Optimising diagnostic workup of early-stage NSCLC</td>
<td>Stefan Barath (Staffanstorp, Sweden)</td>
</tr>
<tr>
<td>12:40</td>
<td>Case study 3: The importance and impact of accurate clinical staging of lung cancer</td>
<td>Lina Zuccatosta (Torrette (AN), Italy)</td>
</tr>
<tr>
<td>12:50</td>
<td>Panel discussion and Q&amp;A - All faculty</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

Purple  

Industry Lunchtime Symposium: The future is now: Envisioning the implementation of digital healthcare into the clinical management of asthma and COPD  
*Organised by Teva*  
**Chairs:** Stephen Holmes (Somerset, United Kingdom)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Information</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>12:30</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>12:35</td>
<td>Unpacking the theory – what does the data tell us?</td>
<td>Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
</tr>
<tr>
<td>12:45</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<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 - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:10</td>
<td>Closing address, closing interactivity</td>
<td>Stephen Holmes (Somerset, United Kingdom)</td>
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</tbody>
</table>

**Brown 3**  
**Session 302 12:45 - 13:45**  
**Industry Lunchtime Symposium: Anti-Inflammatory Reliever (AIR): it’s time to take action**  
*Organised by AstraZeneca*  
**Chairs:** Christine Jenkins (McMahons Point (NSW), Australia)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>12:45</td>
<td>Welcome and introduction</td>
<td>Christine Jenkins (McMahons Point (NSW), Australia)</td>
<td>3073</td>
</tr>
<tr>
<td>12:55</td>
<td>Global strategy for the prevention and management of asthma</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>3074</td>
</tr>
<tr>
<td>13:05</td>
<td>Keynote session: ICS-formoterol Anti-Inflammatory Reliever (AIR)</td>
<td>Richard Beasley (Wellington, New Zealand)</td>
<td>3075</td>
</tr>
<tr>
<td>13:15</td>
<td>Improving asthma care through implementation of the SENTINEL program: findings from the pilot site</td>
<td>Michael Crooks (East Riding of Yorkshire, United Kingdom)</td>
<td>3076</td>
</tr>
<tr>
<td>13:25</td>
<td>A call to action: time to change the SABA culture</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
<td>3077</td>
</tr>
<tr>
<td>13:35</td>
<td>Q&amp;A session and close - All faculty</td>
<td>All Speakers</td>
<td>3078</td>
</tr>
</tbody>
</table>

**Brown 1+2**  
**Session 303 12:45 - 13:45**  
**Industry Lunchtime Symposium: Adapting to the new normal: COVID-19 strategies to help transform patient care**  
*Organised by Pfizer*  
**Chairs:** Francesco Blasi (Milan, Italy)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>12:45</td>
<td>Welcome and introduction</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>3079</td>
</tr>
<tr>
<td>12:50</td>
<td>The risk is still there: The ongoing burden of COVID-19</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>3080</td>
</tr>
<tr>
<td>13:00</td>
<td>Helping to protect against the risk: The role of adapted COVID-19 vaccines</td>
<td>Gili Regev-Yochay (Boston, United States)</td>
<td>3081</td>
</tr>
<tr>
<td>13:15</td>
<td>Strategies for populations at increased risk: The role of COVID-19 treatment</td>
<td>Rosario Menendez Villanueva (Valencia, Spain)</td>
<td>3082</td>
</tr>
<tr>
<td>13:30</td>
<td>Panel Q&amp;A session: COVID-19: What role can respiratory experts play? - All faculty</td>
<td>All Speakers</td>
<td>3083</td>
</tr>
<tr>
<td>13:40</td>
<td>Closing remarks</td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>3084</td>
</tr>
</tbody>
</table>

**Blue 1+2**  
**Session 304 12:45 - 13:45**  
**Industry Lunchtime Symposium: Pulmonary Hypertension associated with Interstitial Lung Disease: Are we ready for the challenge?**  
*Organised by Ferrer*  
**Chairs:** David Kiely (Sheffield (South Yorkshire), United Kingdom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Introduction</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>12:50</td>
<td>When the ILD patient gets more symptomatic - consider PH!</td>
<td>Michael Kreuter (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>
</tr>
<tr>
<td>13:30</td>
<td>Discussion - All faculty</td>
<td>All Speakers</td>
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</tbody>
</table>

Yellow 1+2+3 Session 305 12:45 - 13:45

Industry Lunchtime Symposium: Rethinking MAC lung disease treatment and care
Organised by Insmed

**Chairs:** Michael Loebinger (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:45</td>
<td>Meet our expert faculty</td>
<td>Michael Loebinger (London, United Kingdom)</td>
</tr>
<tr>
<td>12:50</td>
<td>Why should we test our patients for MAC lung disease? - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:05</td>
<td>Why you shouldn’t wait longer than six months for culture conversion - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:20</td>
<td>How should you treat your patients with limited treatment options? - All faculty</td>
<td>All Speakers</td>
</tr>
<tr>
<td>13:35</td>
<td>Looking to the future - All faculty</td>
<td>All Speakers</td>
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</table>

Amber 5+6 Session 316 14:00 - 14:45

Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis
Organised by FUJIFILM

**Chairs:** Lucio Michieletto (Venice, Italy), Filippo Lanfranchi (Venice, Italy)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis</td>
<td>Laura Mancino (Spinea (VE), Italy), Giuseppe Paciocco (Monza (MI), Italy)</td>
</tr>
</tbody>
</table>

Amber 7+8 Session 317 14:00 - 14:45

Industry Skills Lab Workshop: Mucus Management with Simeox therapy in non-CF Bronchiectasis: from hospital to home
Organised by PhysioAssist

**Chairs:** Wojciech Piotrowski (Łódź, Poland), Stefano Aliberti (Milano (MI), Italy)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:05</td>
<td>Simeox therapy in non-CF Bronchiectasis: Indications and Recommendations</td>
<td>Joanna Miłkowska-Dymanowska (Łódź, Poland)</td>
</tr>
<tr>
<td>14:15</td>
<td>Non-CF Bronchiectasis patients treated with Simeox therapy at Hospital and Home: Results of Multicentric Study</td>
<td>Aleksander Kania (Kraków, Poland)</td>
</tr>
<tr>
<td>14:25</td>
<td>Importance of Mucus Clearance in Non-CF Bronchiectasis: Clinical Cases</td>
<td>Vittoria Comellini (Bologna (BO), Italy)</td>
</tr>
<tr>
<td>14:35</td>
<td>Simeox Hands-on / Live Demonstration</td>
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</tbody>
</table>
Amber 5+6  Session 332  15:30 - 16:15

Industry Skills Lab Workshop: Healthcare Freudenfreude: How Data from Clinically-Proven Digital Health Tools Put Patients, Providers, and Pharma on the Same Team

Organised by Propeller Health

Aims: A harmonious, resilient healthcare ecosystem relies on a few critical pieces to function: the patient must be central, benefits must be mutual, and data must be collected and shared with care and intention. Digital health tools, specifically those that are connected to pharmaceutical products, are uniquely positioned to be a force to make this ecosystem work as intended.

Critical to such a symbiotic relationship is reliable, secure data flow. When a digital health tool collects patient data – demographic and relevant social or cultural information, behavior patterns, adherence trends, digital biomarkers, and quality of life indicators – and then aggregates, analyzes, and shares insights relevant to healthcare professionals (HCPs), insurers, and other stakeholders, the entire ecosystem is empowered to make informed decisions that maintain patient-centricity.

Propeller’s platform has mastered this delicate balance, drawing from 10+ years of learnings in research and commercial settings:

A connected drug delivery experience (sensors or devices and patient engagement software) passively captures patient behavior data and provides actionable insights
With access to patient behavior and health data, HCPs can solve for care gaps, make more informed treatment decisions including readiness for step-up-therapy, intervene before exacerbations send their patients to the ER, and improve quality metrics
Pharmaceutical companies generate data for real-world evidence, strengthen their value to all patients, HCPs, and insurers), and create market differentiation
And all the while, patients are surrounded with the insights, motivation, and support they need to create healthy habits, better understand their condition and treatment options, and improve their quality of life

Designing for the ecosystem – with patients at the center – enables Propeller’s digital therapeutic platform to create quantifiable impact, evidenced by patient adoption, engagement, and clinical outcomes, while providing healthcare professionals and pharmaceutical companies with advanced insights and levers to improve health outcomes.

Chairs: Yury Rozenman (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 7+8  Session 333  15:30 - 16:15

Industry Skills Lab Workshop: How to implement patient feedback in CPAP therapy

Organised by ResMed

Chairs: Tarja Saaresranta (Littoinen, Finland), Kimberly L. Sterling (Indianapolis, United States)

15:30  The importance of patient feedback and Patient-Reported Outcome Measures in patient care management
Erna Sif Arnardóttir (Reykjavik, Iceland)

15:48  Early experiences of Care Check-In as a patient feedback tool in CPAP therapy
Sandrine Launois Rollinat (Paris, France)

Gold  Session 360  17:30 - 19:00

Industry evening symposium: The Active Airway and the Cough Reflex in Chronic Cough

Organised by MSD

Chairs: Federico Lavorini (Firenze (FI), Italy)

17:30  Opening and Introduction to Chronic Cough
Federico Lavorini (Firenze (FI), Italy)

17:40  How the Airway Acts to Protect Itself: Cough is Fundamental
Jacky Smith (Manchester (Greater Manchester), United Kingdom)

17:55  Extracellular ATP as an Alarmin: Mechanisms and Actions
Pablo Pelegrin (Murcia, Spain)

18:05  Chronic Cough and Refractory Chronic Cough: Extracellular-ATP Cough Signal
Lorcan McGarvey (Belfast, United Kingdom)
### Coral 3  
**Session 361**  
**17:30 - 19:00**

**Industry evening symposium: Understanding and managing RSV's impact on older adults with respiratory conditions – clinician and patient perspectives**  
*Organised by GSK*

**Chairs:** Alberto Papi (Cona, Ferrara, Italy)

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<tbody>
<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
<td>Cona, Ferrara, Italy</td>
</tr>
<tr>
<td>17:35</td>
<td>“Who’s at risk?”</td>
<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
<td>Groningen, Netherlands</td>
</tr>
<tr>
<td>17:50</td>
<td>Patient perspectives</td>
<td>Ruth Tal-Singer (Media, United States)</td>
<td>Media, United States</td>
</tr>
<tr>
<td>18:05</td>
<td>Prevention of RSV-LTRD</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
<td>Cona, Ferrara, Italy</td>
</tr>
<tr>
<td>18:35</td>
<td>Q&amp;A panel discussion - All faculty</td>
<td>All Speakers</td>
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### Yellow 1+2+3  
**Session 362**  
**17:30 - 19:00**

**Industry evening symposium: COPD and quality of life, beyond symptoms and exacerbations**  
*Organised by Menarini Group*

**Chairs:** Marc Miravitlles (Barcelona (CT), Spain)

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<tbody>
<tr>
<td>17:30</td>
<td>Chairman’s introduction</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
<td>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>
<td>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>
<td>Wiesbaden, Germany</td>
</tr>
<tr>
<td>18:30</td>
<td>Chairman’s take home messages and conclusions</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
<td>Barcelona (CT), Spain</td>
</tr>
<tr>
<td>18:50</td>
<td>Q&amp;A</td>
<td>Marc Miravitlles (Barcelona (CT), Spain), Jutta Beier (Wiesbaden, Germany), Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td>Barcelona (CT), Spain</td>
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### Coral 1  
**Session 363**  
**17:30 - 19:00**

**Industry evening symposium: Treatable Traits: Realising personalised care in airways diseases**  
*Organised by GSK*

**Chairs:** Vanessa M. McDonald (Newcastle (NSW), Australia)

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<tr>
<td>17:30</td>
<td>Welcome and introduction</td>
<td>Vanessa M. McDonald (Newcastle (NSW), Australia)</td>
<td>Newcastle (NSW), Australia</td>
</tr>
<tr>
<td>17:35</td>
<td>Winds of change in airways diseases</td>
<td>Fernando J. Martinez (New York, United States)</td>
<td>New York, United States</td>
</tr>
<tr>
<td>17:55</td>
<td>Treatable Traits in practice: Exploring the role of the multidisciplinary team</td>
<td>Vanessa M. McDonald (Newcastle (NSW), Australia), Job F.M. van Boven (Groningen, Netherlands), Fernando J. Martinez (New York, United States)</td>
<td>Newcastle (NSW), Australia, Groningen, Netherlands, New York, United States</td>
</tr>
</tbody>
</table>
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)

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 - All faculty
All Speakers

18:05 How Achievable is Clinical Remission on Biologic Therapy?
Francesca Antonietta Puggioni (Rozzano (MI), Italy)

18:25 Panel Discussion and Mini-debate - All faculty
All Speakers

18:40 Type 2 Biomarkers as Predictive and Prognostic Tools to Guide Management
Vibeke Backer (Copenhagen, Denmark)

18:48 Panel Discussion and Q&A - All faculty
All Speakers
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)

17:40  Challenges and progress in predicting disease trajectories. Part I: AATD
       Noel Gerard McElvaney (Dublin, Ireland)

17:50  Challenges and progress in predicting disease trajectories. Part II: IPF
       Marlies S. Wijsenbeek (Rotterdam, Netherlands)

18:00  Camouflage: How asthma obscures the diagnosis of AATD
       Filipa Costa (Coimbra, Portugal)

18:10  Discussion Part I
       Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)

18:20  Imaging challenges in lung fibrosis
       Simon Walsh (London, United Kingdom)

18:30  New tools to advance imaging in rare lung diseases
       Elizabeth Estes (Saugatuck, United States)

18:40  Implications for management of rare lung diseases
       Luca Richeldi (Roma, Italy)

18:50  Discussion Part II
       Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)

18:59  Summary and closing remarks
       Marlies S. Wijsenbeek (Rotterdam, Netherlands), Simon Walsh (London, United Kingdom)
Industry early morning symposium: Pertussis Exposed: the challenges and conundrums of pertussis in adults

Organised by Sanofi

Chairs: Alberto Papi (Cona, Ferrara, Italy)

07:15 Welcome and introduction
Alberto Papi (Cona, Ferrara, Italy)

07:20 Panel Discussion Pertussis in adults: should we be concerned? - All faculty
All Speakers

07:30 Panel Discussion The coughing adult: is pertussis a consideration? - All faculty
All Speakers

07:40 Panel Discussion Epidemiological data on pertussis in adults: a chicken and egg conundrum? - All faculty
All Speakers

07:50 Panel Discussion Adult immunisation for pertussis control: what are the challenges? - All faculty
All Speakers

08:00 Audience Q&A - All faculty
All Speakers

Industry early morning symposium: Quelling the Vicious Vortex: Targeting Neutrophil Serine Proteases in Non-Cystic Fibrosis Bronchiectasis

Organised by Insmed

Chairs: Doreen Addrizzo-Harris (New York, United States)

07:15 Welcome and Introductions
Doreen Addrizzo-Harris (New York, United States)

07:20 Taking Stock of the Burden of NCFBE
Doreen Addrizzo-Harris (New York, United States)

07:30 On the Path to Early NCFBE Diagnosis: Identifying Risk Factors and Employing Current Guidelines
Pieter Goeminne (Bornem, Belgium)

07:45 Improving Upon the Current NCFBE Standard of Care: The Role of Emerging Therapies Aimed at Inhibiting NSP Activation
Stefano Aliberti (Milano (MI), Italy)

08:05 Panel Discussion, Audience Q&A, and Closing Remarks - All faculty
All Speakers

Industry Skills Lab Workshop: HUMIDIFIED HIGH FLOW - CLINICAL INNOVATIONS

Organised by FISHER&PAYKEL SAS - FRANCE

Chairs: Stefano Nava (Bologna (BO), Italy)

08:00 Effect of Asymmetric Cannula on PaCO2 for stable COPD Patients
Lara Pisani (Bologna (BO), Italy)

08:15 Danish Respiratory Guidelines for long-term Humidified High Flow Treatment
Ulla Møller Weinreich (Ålborg, Denmark)

08:35 The role of HHF on secretion management
Claudia Crimi (Catania (CT), Italy)
Amber 5+6  Session 418  10:30 - 11:15
Industry Skills Lab Workshop: Interpretation of the Cardiopulmonary Exercise Test
Organised by Vyaire Medical GmbH

Chairs: Herman Groepenhoff (Lijnden, Netherlands)

10:30 Interpretation of the Cardiopulmonary Exercise Test
Piergiuseppe Agostoni (Milan, Italy)

Amber 7+8  Session 419  10:30 - 11:15
Industry Skills Lab Workshop: Peripheral lung biopsy – how radial EBUS and navigation help obtain a diagnosis
Organised by FUJIFILM

Chairs: 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 3  Session 431  12:15 - 13:15
Industry Lunchtime Symposium: Prioritising patient outcomes and reducing environmental burden: how both are achievable in respiratory care
Organised by AstraZeneca

Chairs: John R Hurst (London, United Kingdom), Helen Reddel (Sydney, Australia)

12:15 Co-chairs’ welcome and introduction
John R Hurst (London, United Kingdom)

12:20 Facing the challenges for healthcare in the 21st century: health equity, system resilience and the environment
Christine Jenkins (McMahons Point (NSW), Australia)

12:35 Paving the way for environmentally sustainable respiratory care
Alberto Papi (Cona, Ferrara, Italy)

12:50 Ensuring access to essential medicines: why partnership with governments and authorities is the only way to achieve patient-centric environmentally sustainable respiratory care
Omar S. Usmani (London, United Kingdom)

13:05 Audience Q&A / summary and close - All faculty
All Speakers

Coral 1  Session 432  12:15 - 13:15
Industry Lunchtime Symposium: Making the right choice for your moderate asthma patients: What does the recent evidence say?
Organised by GSK

Chairs: Giorgio Walter Canonica (Milano (MI), Italy)

12:15 Introduction and welcome
Giorgio Walter Canonica (Milano (MI), Italy)

12:20 First ICS/LABA regimen for your moderate asthma patients – is it an obvious choice?
Dave Singh (Manchester, United Kingdom)

12:35 What predicts exacerbation risk in real life? FF/VI vs other ICS-containing regimens
Pierluigi L. Paggiaro (Pisa (PI), Italy)

12:50 Putting evidence into practice – a discussion and summary
Giorgio Walter Canonica (Milano (MI), Italy)

13:00 Q&A - All faculty
All Speakers
## Coral 2  Session 433  12:15 - 13:15

### Industry Lunchtime Symposium: Pneumococcal vaccination: Does one size fit all?

Organised by MSD  

**Chairs:** Susanna Esposito (Milano (MI), Italy)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>12:15</td>
<td>Welcome and introduction</td>
<td>Susanna Esposito (Milano (MI), Italy)</td>
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<td>12:20</td>
<td>Pneumococcal disease in children in the post-pandemic era</td>
<td>Susanna Esposito (Milano (MI), Italy)</td>
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<td>12:35</td>
<td>Unique challenges of pneumococcal disease prevention in adults</td>
<td>Francesco Biasi (Milan, Italy)</td>
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<tr>
<td>12:50</td>
<td>Understanding population-specific needs in pneumococcal vaccination</td>
<td>Mark van der Linden (Aachen, Germany)</td>
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<td>13:05</td>
<td>Discussion and closing remarks - All faculty</td>
<td>All Speakers</td>
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## Brown 3  Session 456  12:45 - 13:45

### Industry Lunchtime Symposium: What’s new on ILD diagnosis. Are we ready for incorporating biology in the MDT discussion?

Organised by Veracyte, Inc.  

**Chairs:** Athol Wells (London, United Kingdom)

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<td>13:30</td>
<td>Debate - All faculty</td>
<td>All Speakers</td>
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## Brown 1+2  Session 457  12:45 - 13:45

### Industry Lunchtime Symposium: Pandemic preparedness and the potential role of mRNA technology

Organised by Pfizer

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<th>Session Title</th>
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<tr>
<td>12:45</td>
<td>Welcome and Introductions</td>
<td>Florian Krammer (New York, United States)</td>
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<td>12:48</td>
<td>Recent history and future of viral pandemics</td>
<td>Gavin Smith (Singapore, Singapore)</td>
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<td>13:03</td>
<td>Lessons learned: COVID-19 case study</td>
<td>Eva Polverino (Barcelona, Spain)</td>
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<td>13:18</td>
<td>mRNA technology and preparing for the future</td>
<td>Nicholas Kitchin (Hurley, United Kingdom)</td>
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<td>13:33</td>
<td>Q&amp;A session - All faculty</td>
<td>All Speakers</td>
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<td>13:43</td>
<td>Conclusions and close</td>
<td>Florian Krammer (New York, United States)</td>
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## Yellow 1+2+3  Session 459  12:45 - 13:45

### Industry Lunchtime Symposium: Breathing new life into acute respiratory care: proactively improving long-term outcomes

Organised by AstraZeneca  

**Chairs:** David Price (Singapore, Singapore)

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<th>Time</th>
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<td>12:45</td>
<td>Welcome and introduction</td>
<td>David Price (Singapore, Singapore)</td>
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<td>12:55</td>
<td>Panel discussion: How can we address the burden of unplanned hospitalisations?</td>
<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
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</table>
Panel discussion: How can we integrate learnings from cardiology to improve hospital discharge and prevent readmission?
Mohit Bhutani (Edmonton (AB), Canada)

Panel discussion: Beyond acute care: how can we optimise transition of care?
David Price (Singapore, Singapore)

Summary and close
David Price (Singapore, Singapore)

Amber 7+8  Session 467  14:00 - 14:45
Industry Skills Lab Workshop: East meets West - global best practices
Organised by Erbe Elektromedizin GmbH
Chairs: Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)

Hands on
- 2 x transbronchial cryobiopsy, 2 x central airway obstruction

14:00
Jürgen Hetzel (Tuebingen, Germany), António Alexandre Pinto Bugalho De Almeida (Lisboa, Portugal)

Amber 7+8  Session 482  15:30 - 16:15
Industry Skills Lab Workshop: HUMIDIFIED HIGH FLOW (HHF) - EXPANDING KNOWLEDGE
Organised by FISHER&PAYKEL SAS - FRANCE
Chairs: Nicholas Hart (London, United Kingdom), Capucine Morelot-Panzini (Paris, France)

15:30  HHF improves breathing efficiency in COPD patient recovering from exacerbation.
Lise Piquilloud (Lausanne, Switzerland)

15:45  Benefit of long-term therapy with HHF in Bronchiectasis patients at home.
Giuseppe Fiorentino (Napoli (NA), Italy)

16:00  Go with the flow - Recent developments?
Jens Bräunlich (Leipzig, Germany)
## 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)

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<tr>
<td>09:00</td>
<td><strong>Co-Chairs’ welcome</strong></td>
<td>Alberto Papi (Cona, Ferrara, Italy), Christine Jenkins (McMahons Point (NSW), Australia)</td>
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<td>09:05</td>
<td><strong>Defining trajectories of good lung health – how do we get everyone on track?</strong></td>
<td>James Allinson (London, United Kingdom)</td>
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<td>09:20</td>
<td>**Panel discussion and Q&amp;A</td>
<td>Towards good lung health – what do we do now?**</td>
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<td>09:35</td>
<td><strong>COPD: it’s not just about the lungs!</strong></td>
<td>Mona Bafadhel (London, United Kingdom)</td>
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<td>09:50</td>
<td>**Panel discussion and Q&amp;A</td>
<td>How can we improve the management of COPD to reduce cardiopulmonary risk?**</td>
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<td>10:05</td>
<td><strong>Summary and closing remarks</strong></td>
<td>Alberto Papi (Cambridge (Cambridgeshire), United Kingdom), Christine Jenkins (McMahons Point (NSW), Australia)</td>
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