Pre-congress content  Session 2  00:00 - 23:59
Statements and technical standards: Syndrome of combined pulmonary fibrosis and emphysema
ATS/ERS/JRS/ALAT research statement

**Aims:** to identify the syndrome of combined pulmonary fibrosis and emphysema (CPFE) and recognise the main pathophysiology components. Participants will be able to identify the main clinical, radiological, functional and pathological features characteristic of CPFE and distinguish it from idiopathic pulmonary fibrosis. They will be able to choose the best management options based on recent evidence, and to individualise the monitoring of this condition through an improved understanding of the comorbidities and the risk of complications, especially pulmonary hypertension.

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

**Method(s):** Epidemiology  Imaging  Pulmonary function testing

**Tag(s):** Clinical

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

**00:00**  Syndrome of combined pulmonary fibrosis and emphysema

Vincent Cottin (Lyon, France)  

Pre-congress content  Session 3  00:00 - 23:59
Statements and technical standards: ERS/ATS updated pulmonary function test interpretation technical standard

**Aims:** to summarise the recommendations for pulmonary function test (PFT) interpretation; to explain the uncertainty in PFT interpretation; to review the changes from the 2005 interpretation standards.

**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, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory therapist

**00:00**  ERS/ATS updated pulmonary function test interpretation technical standard

Sanja Stanojevic (Halifax (NS), Canada)  

Pre-congress content  Session 4  00:00 - 23:59
Statements and technical standards: ERS technical standards for scoring respiratory events using Type III devices for the diagnosis of sleep disordered breathing in adults and children

**Aims:** to present an update on the use of Type III devices for investigating sleep disordered breathing in children and adults with discussion of the advantages, limitations and research needs in each of the following areas: 1. technical specifications for Type III devices, 2. scoring criteria for sleep-related breathing disturbances using Type III devices, 3. utility of Type III devices compared with polysomnography (PSG) for investigating sleep disordered breathing in adults, 4. Type III devices for diagnosing sleep disordered breathing in children, 5. patient perspective.

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

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

**Tag(s):** Clinical

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

**00:00**  ERS technical standards for scoring respiratory events using Type III devices for the diagnosis of sleep disordered breathing in adults and children

Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)  

Pre-congress content  Session 5  00:00 - 23:59
Statements and technical standards: ERS statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials

**Aims:** to explain the burden and effect of pulmonary exacerbations in children and adolescents with bronchiectasis; to describe the importance of exacerbations in children and adolescents with bronchiectasis; to list the recommendations for defining severe and nonsevere exacerbations for clinical trials, and how these differ from those for clinical care.

**Disease(s):**

**Method(s):**

**Tag(s):**

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

**00:00**  ERS statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials

Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)
ERS statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials
Anne Bernadette Chang (Brisbane (QLD), Australia)

ERS guidelines for the management of hospitalised patients with COVID-19
James D. Chalmers (Dundee (Angus), United Kingdom)

ERS statement on long COVID-19 follow-up
Antonio Spanevello (Milano, Italy)

The ERS core outcome set for clinical trials evaluating the management of COPD exacerbations
Alexander Mathioudakis (Stockport, United Kingdom)
Clinical Research Collaboration: Lung disease in primary immunodeficiency
eGLILDnet CRC

**Aims:** To provide an update on lung disease in primary immunodeficiency; to consider the following: 1. the critical importance of excluding primary immunodeficiency in people presenting with acute and chronic respiratory illness, 2. the spectrum of primary immunodeficiency, 3. lung manifestations of primary antibody deficiency, 4. and granulomatous-lymphocytic interstitial lung disease: state of the art.

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

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

**Tag(s):** Clinical

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

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Clinical Research Collaboration: An ERS clinical research collaboration to advance research in alpha-1 antitrypsin deficiency
EARCO CRC

**Aims:** To identify the main research projects under development by the European alpha-1 antitrypsin research collaboration (EARCO). EARCO was founded in 2018 with the objective of developing an international prospective registry of patients with AATD. The registry includes more than 1000 patients and has produced several manuscripts presenting the results of the research projects, such as the survey on unmet needs for research in AATD, the survey on criteria for augmentation therapy and the study on the impact of COVID-19 in patients with AATD. One of the objectives of the presentation is to attract new participants to the EARCO consortium.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

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Clinical Research Collaboration: Global Lung Function Initiative: Is it time for an update?
GLI CRC: addressing the challenges of using ethnic specific reference equations

**Aims:** To review the rationale and recommendations for using multiethnic reference equations; to describe the potential challenges and bias that may be introduced if we normalise the effects of social disparities on lung function; to propose interim solutions to the interpretation of lung function test results.

**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, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

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Clinical Research Collaboration: Lessons learnt and updates from the CADSET clinical research collaboration
CADSET CRC

**Aims:** To provide an overview of the lessons learnt and outputs of CADSET; to present a discussion with different highly involved CADSET members; to present the audience with the following specific learning outcomes: 1. challenges and benefits of large collaborative studies, views from early-career and well-established ERS researchers; 2. update on early life origins of chronic respiratory diseases; 3. early life spirometric phenotypes, prevalence and associated factors; 4. factors influencing lung function across the ages; 5. similarities and differences between asthma with fixed airflow limitation and COPD and 6. challenges ahead.
Pre-congress content Session 14 00:00 - 23:59
Clinical Research Collaboration: Pulmonary haemodynamics during exercise: Research Network registry
PEX-NET CRC

Aims: From a theoretical perspective, pulmonary haemodynamics during exercise may be suitable for detecting early forms of cardiac and pulmonary vascular disease. This concept is supported by data from several small studies. However, the prognostic and differential-diagnostic relevance and additive value of exercise vs. resting haemodynamics has not been evaluated in a large study. PEX-NET is an international registry with a retrospective and a prospective cohort, enrolling patients with exercise pulmonary haemodynamics. An international steering committee has defined the inclusion and exclusion criteria. Detailed clinical and haemodynamic data derived from clinically indicated exercise right heart catheterisations of patients with suspected or manifest pulmonary hypertension have been transferred into a central database. Participants of this session will learn how resting and exercise haemodynamics may affect survival, why this is important and what the open questions are. This will explain why a large study investigating the prognostic parameters was needed.

Disease(s): Pulmonary vascular diseases
Method(s): Epidemiology  Physiology  Pulmonary function testing
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Patient, Physiologist

00:00 Pulmonary haemodynamics during exercise: Research Network registry
Gabor Kovacs (Graz, Austria)

Pre-congress content Session 15 00:00 - 23:59
Clinical Research Collaboration: Severe heterogenous asthma research collaboration, patient-centred
SHARP CRC

Aims: to advertise severe heterogeneous asthma research collaboration (SHARP) as a research community to members of ERS and other congress participants; to increase awareness about the specific unmet needs of patients with severe asthma and the solutions that the research conducted by SHARP can provide; to ensure the following learning outcomes: What are the ambitions and strategy of the SHARP CRC? Who is involved? What are the key achievements of SHARP? How are patients involved in SHARP? What are the plans for the coming years in SHARP? How can you get involved in SHARP?

Disease(s): Airway diseases
Method(s): Cell and molecular biology  Epidemiology  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, Journalist

00:00 Severe heterogenous asthma research collaboration, patient-centred
Ratko Djukanovic (Southampton (Hampshire), United Kingdom)

Pre-congress content Session 16 00:00 - 23:59
Clinical Research Collaboration: EU-wide consensus of clinical experts and patients on key parameters to be measured during and after a severe exacerbation of COPD
CICERO CRC
### Aims

to present the EU-wide consensus obtained from clinical COPD experts and patients on the key process and outcome parameters to be measured during and after a severe exacerbation requiring hospitalisation; to highlight and discuss the results obtained from the following: 1. the Delphi Expert Survey and 2. the ELF-CICERO Patient Survey; to help the congress participants understand, in the context of key process and outcome parameters in severe COPD exacerbations, the following issues: 1. the importance of an EU-wide consensus, 2. the necessity of complementing an expert clinical opinion with in-depth patient perspective, 3. the results obtained from the Delphi Expert and Patient Survey and 4. how the obtained results can improve the future management and patient outcomes of severe COPD exacerbations; to provide the opportunity for interested stakeholders to reference the accompanying publications and interact with the lead young investigators during the 2022 ERS congress.

### Disease(s)
- Airway diseases
- Respiratory critical care
- Respiratory infections

### Method(s)
- General respiratory patient care
- Pulmonary function testing
- Respiratory intensive care

### Tag(s)
- Clinical

### Target audience
- Adult pulmonologist/Clinician
- Clinical researcher
- General practitioner
- Medical Student
- Nurse
- Respiratory critical care physician
- Patient
- Physician in Pulmonary Training
- Respiratory therapist
- Journalist

### Pre-congress content

**Session 17**

**Clinical Research Collaboration: Precision medicine for bronchiectasis**

**EMBARC CRC**

**Aims:**
to discuss the clinical and biological heterogeneity of bronchiectasis; to discuss recent data showing the overlap between bronchiectasis, COPD and asthma; to discuss recent data showing that there are different inflammatory subtypes of bronchiectasis that may require different treatments.

**Disease(s):** Respiratory infections

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

**Tag(s):** Translational

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

**00:00**

**EU-wide consensus of clinical experts and patients on key parameters to be measured during and after a severe exacerbation of COPD**

Mona Bafadhel (London, United Kingdom)

**Session 18**

**Clinical Research Collaboration: New understanding in the treatment of cough**

**NEuroCOUGH CRC**

**Aims:**
to provide an update of the initiatives of the NEuroCOUGH CRC and include the following topics: 1. the NEuroCOUGH initiative together with ERS & FIRS to relabel chronic cough (ICD-11 proposal), 2. the ERS CRC NEuroCOUGH clinic survey results, 3. the currently available and unpublished data from the NEuroCOUGH registry and 4. the interaction with industrial partners in facilitating the development of new chronic cough treatment options.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

**00:00**

**Precision medicine for bronchiectasis**

Eva Polverino (Barcelona, Spain)

**Session 19**

**Statements and technical standards: Main highlights in the management of pleural infection**

**ERS/ESTS 2022 clinical statement on the management of pleural infection**

**Aims:**
to discuss the main highlights of the 2022 clinical statement on the management of pleural infection

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician

**00:00**

**Main highlights in the management of pleural infection**

Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)
Pre-congress content  Session 20  00:00 - 23:59
Year in review: Biologics in asthma: do we need so many and who do we miss?
Aims: to summarize the immunology of asthma, the cytokines or receptors currently targeted, the possible mechanisms of sub-optimal responses, and the importance of determining the immune make-up of individual patients prior to prescribing mAb therapy, in the age of precision medicine for asthma.
Disease(s): Airway diseases
Method(s): Cell and molecular biology  General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Patient, Physician in Pulmonary Training, Scientist (basic, translational), Journalist
00:00  Biologics in asthma: do we need so many and who do we miss?
Guy Brusselle (Ghent, Belgium)

Pre-congress content  Session 21  00:00 - 23:59
Year in review: Treatable traits in COPD rehabilitation
Aims: Chronic obstructive pulmonary disease (COPD) is a heterogenous and complex disease with respiratory and extrapulmonary characteristics (also known as treatable traits). Identification and treatment based on treatable traits in multiple settings may ensure for a greater personalized approach in COPD treatment including pulmonary rehabilitation both in stable phase and acute exacerbations. Emerging evidence suggests that treatable traits model (based on symptoms beyond dyspnea and physical, emotional and social manifestations) may improve relevant outcomes in patients with COPD. Interdisciplinary pulmonary rehabilitation may improve treatable traits and ensure more personalized approach for the treatment of COPD.
Disease(s): Airway diseases
Method(s): Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Physician in Pulmonary Training
00:00  Treatable traits in COPD rehabilitation
Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

Pre-congress content  Session 22  00:00 - 23:59
Year in review: The positive downside of COVID pandemic on advances in thoracic surgery in 2021
Aims: to present the evolution of minimally invasive surgery for complex and extended lung resections during COVID pandemic; The advances in anaesthesiologic techniques has brought to perform non-intubated video-assisted thoracoscopic surgery under combination of erector spinae plane block and thoracic paravertebral block. Comparative efficacy of stereotactic body radiotherapy (SBRT) and surgery in the treatment of patients with non–small cell lung cancer (NSCLC) remains a hot topic in thoracic oncology. Immune checkpoint inhibitors in metastatic NSCLC are being rapidly tested in clinical trials for the treatment of early-stage NSCLC combination with surgery. The care of patients with surgically resectable epidermal growth factor receptor-mutated lung adenocarcinomas shows the deep collaboration between medical and surgical thoracic oncology in the neoadjuvant setting. In lung transplantation the available pool of donor lungs could be expanded, using ex-vivo lung perfusion (EVLP). Shorter length of stay following minimally invasive thymectomy for stage I through III thymoma, compared with open thymectomy, without increased rates of margin positivity, perioperative morbidity, or decreases in overall survival has been demonstrated.
Disease(s): Respiratory critical care  Thoracic oncology
Method(s): Endoscopy and interventional pulmonology  Pulmonary function testing  Surgery
Tag(s): Clinical
Target audience: Medical Student, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon
00:00  The positive downside of COVID pandemic on advances in thoracic surgery in 2021
René Horsleben Petersen (Copenhagen, Denmark)

Pre-congress content  Session 23  00:00 - 23:59
Year in review: Obstructive sleep apnea associated with different pulmonary comorbidities
Disease(s) : Airway diseases, Sleep and breathing disorders, Thoracic oncology
Method(s) : General respiratory patient care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Nurse, Respiratory critical care physician, Thoracic oncologist

00:00 Obstructive sleep apnea associated with different pulmonary comorbidities
Walter McNicholas (Dublin, Ireland)

Pre-congress content Session 24 00:00 - 23:59
Year in review: Antibiotics in lower respiratory tract infections in children
Antibiotics for CAP: how much, how long?
Aims : Respiratory tract infections are extremely frequent in (young) children and are amongst the key reasons for outpatient clinic and ER visits, and hospital admissions. It is not always easy to differentiate between uncomplicated lower respiratory tract infection and community acquired pneumonia and between viral and bacterial infections. Frequently antibiotics are prescribed, which may always be useful and may cause increased antibiotic resistance.
Recently, 2 RCT on antibiotic use in lower respiratory tract infections and CAP in children addressed the question if antibiotics are useful (for lower RTI) and if prescribed (in case of suspicion of CAP) what would be the best dose and duration of treatment. In this year in review recent literature, including these 2 RCTS, will be discussed.

Disease(s) : Paediatric respiratory diseases
Method(s) : Epidemiology  General respiratory patient care
Tag(s) : Clinical
Target audience : Clinical researcher, Medical Student, Paediatrician

00:00 Antibiotics in lower respiratory infections in children
Julia Bielicki (London, United Kingdom)

Pre-congress content Session 25 00:00 - 23:59
Year in review: Air pollution and interstitial lung diseases
Aims : to describe the association between air pollution and various diseases and research on the topic; To understand how air pollution actually impacts health by modulating several important cellular functions; to present some recently, discovered evidence about air pollution-induced epigenetic changes, which are linked with the aetiology of various human diseases. Among several epigenetic modifications, DNA methylation represents the most prominent epigenetic alteration underlying the air pollution-induced pathogenic mechanism. Several other types of epigenetic changes, such as histone modifications, miRNA, and non-coding RNA expression, have also been found to have been linked with air pollution.

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

00:00 Air pollution and interstitial lung diseases
Katerina Antoniou (Heraklion, Greece)

Pre-congress content Session 26 00:00 - 23:59
Year in review: Confocal endomicroscopy in thoracic malignancy: seeing is believing?
Aims : to summarize recent, cutting edge data on live, intra procedure endoscopic imaging as related to thoracic oncology. The novel area of confocal endomicroscopy is opening potential "live assessment" of tissues at the microscopic level, and with parallel developments in thoracic intervention, the possibility of better diagnostics, targeted biopsy and potentially treatment.

This technique has been used in the diagnosis of pulmonary nodules at navigation bronchoscopy, mediastinal lymph node sampling in possible lung cancer and in pleural disease / mesothelioma.

As data emerges, this technique promises to be a new procedures to enrich diagnostic algorithms in Thoracic Oncology

Disease(s) : Thoracic oncology
Method(s) : Endoscopy and interventional pulmonology  Imaging  Palliative care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

7 19.08.2022
Pre-congress content  
**Session 27**  
**00:00 - 23:59**  

**Year in review: Pre-clinical discovery and testing of new approaches to lung repair**  

*Aims:* to provide an overview of some key recent publications that have identified and tested novel therapeutic targets in pre-clinical models. A variety of pulmonary diseases will be covered. Hereby the clinical audience can foresee and debate potential of translation into the clinical and receive insight into novel strategies taken in the laboratory to identify and test targets. Studies can serve as examples for basic and translational scientists and can instigate further mechanistic research.

**Disease(s):** Airway diseases, Interstitial lung diseases, Paediatric respiratory diseases  
**Method(s):** Cell and molecular biology  
**Tag(s):** Basic science  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Paediatrician, Physician in Pulmonary Training, Scientist (basic, translational)

00:00  
Pre-clinical discovery and testing of new approaches to lung repair  
Reinoud Gosens (Groningen, Netherlands)  

30

Pre-congress content  
**Session 28**  
**00:00 - 23:59**  

**Year in review: The transforming growth factor beta/BMP axis in pulmonary arterial hypertension: from screening to treatment**  

*Aims:* to provide an overview of recent insights into the role of the TGFbeta/BMP signaling axis in the pathophysiology and management of pulmonary arterial hypertension. This will encompass new molecular insights, developing knowledge around genetic testing and screenings, and new possibilities for targeted treatment.

**Disease(s):** Pulmonary vascular diseases  
**Method(s):** Cell and molecular biology  
**Tag(s):** Translational  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Scientist (basic, translational)

00:00  
The transforming growth factor beta/BMP axis in pulmonary arterial hypertension: from screening to treatment  
Harm Jan Bogaard (Amsterdam, Netherlands)  

31

Pre-congress content  
**Session 29**  
**00:00 - 23:59**  

**Year in review: What is new in tuberculosis: from prevention to treatment**  

*Aims:* to present new achievements in tuberculosis diagnostics, new drugs and new regimens, biomarkers and the use of artificial intelligence in clinical trials.

**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, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

00:00  
What is new in tuberculosis: from prevention to treatment  
Christoph Lange (Borstel, Germany)  

32

Pre-congress content  
**Session 30**  
**00:00 - 23:59**  

**Year in review: Health effects of novel tobacco and nicotine products**  

*Aims:* to present research and studies on health effects of using electronic nicotine delivery systems (ENDS) and heated tobacco products (HTP); to start a discussion on changes in the tobacco products related policies and regulations.

**Disease(s):** Airway diseases  
**Method(s):** Epidemiology  
**Tag(s):** Translational  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training
Pre-congress content  

**Session 31  00:00 - 23:59**

**Year in review: The emerging role of helmet noninvasive ventilation in treatment of patients with acute hypoxemic failure**

**Aims:** to provide an update on the role of helmet CPAP and helmet NIV in treatment of patients with acute hypoxemia failure. At the end of this presentation audience will be familiar with the indication for helmet CPAP and Helmet NIV and the optimal way to use the helmet in patients with acute hypoxemia failure.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

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**The emerging role of helmet noninvasive ventilation in treatment of patients with acute hypoxemic failure**

Domenico Luca Grieco (Rome, Italy)

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**Session 32  00:00 - 23:59**

**Year in review: Treatment of cT1 lung cancer: novel perspectives**

**Aims:** to discuss the different treatment option for cT1 lung cancer: surgical segmentectomy, bronchoscopic ablation of lung tumour including robotic bronchoscopic, stereotactic ablative radiotherapy (SABR); to discuss leaving the concept of lobectomy and opt for segmentectomy?; to discuss if the focus should be on non-invasive stereotactic radiotherapy or should patients be treated bronchoscopically?

**Disease(s):** Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Medical Student, Thoracic oncologist, Thoracic surgeon

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**Treatment of cT1 lung cancer: novel perspectives**

Felix J.F. Herth (Heidelberg, Germany)

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**Session 33  00:00 - 23:59**

**Year in review: Preserved ratio impaired spirometry (PRISm): recent insights and clinical implications**

Learn about the most recent and clinically relevant insights in subjects with preserved ratio impaired spirometry (PRISm)

**Aims:** To update the audience about the epidemiology, temporal stability and long-term health outcomes of the lung function trait PRISm (preserved ratio impaired spirometry). Secondary, for those that are not yet familiar with PRISm, the definition of this condition will be introduced and the associations between PRISm, respiratory symptoms and the chronic obstructive pulmonary disease (COPD) will be highlighted. Also, the audience will learn about the relationship between PRISm and extrapulmonary comorbidities and about latest insights into the long-term lung function trajectories of PRISm.

**Disease(s):** Airway 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, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Journalist

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**Preserved ratio impaired spirometry (PRISm): recent insights and clinical implications**

Yunus Çolak (Herlev, Denmark)

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**Session 34  00:00 - 23:59**

**Professional development: Lung Cancer: Improving discussions about the resuscitation status**

**Aims:** To offer attendees the opportunity to develop the following skills: To discuss options with patients and support informed decision making throughout the entire pathway; to manage patients’ and families’ resuscitation expectations throughout the pathway; To address emotional factors impacting on resuscitation decisions
Target audience: Physician in Pulmonary Training, Nurse

Chairs: Georgia Hardavella (Athens, Greece), Anne-Claire Toffart (Grenoble, France)

Patient testimonial
Merel Hennink (Groningen, Netherlands)

Presenting information about ‘not for resus’ status: The oncologist’s/lung cancer specialist’s perspective
Georgia Hardavella (Athens, Greece)

Presenting information about ‘not for resus’ status: The intensivist’s perspective
Stefano Nava (Bologna (BO), Italy)

Oncologist and intensivist join forces – How to deliver the conversation together as an MDT (complementary roles)
Anne-Claire Toffart (Grenoble, France)

Communicating the withdrawal of care - Tips to minimize the psychological impact on patient and carer
Yves Libert (Brussels, Belgium)

Pre-congress content Session 35 00:00 - 23:59
Professional development: Time to team up! Shared decision making in the pulmonary paediatric care

Chairs: Martijn Den Dekker (Rotterdam, Netherlands)

Time to team up! Shared decision making in the pulmonary paediatric care
Martijn Den Dekker (Rotterdam, Netherlands), Patricia Kalkman (Rotterdam, Netherlands), Annelies Kok (Rotterdam, Netherlands)
Assembly members' meeting: Assembly 3: Basic and translational sciences

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Catherine Greene (Dublin 9, Ireland), Niki L. Reynaert (Maastricht, Netherlands), H. Irene Heijink (Groningen, Netherlands), Agnes Boots (Maastricht, Netherlands), Arnaud Mailleux (Paris, France), Niki Ubags (Epalinges, Switzerland)
No Room  
Session 37  

**Patient: ELF Patient organisation networking day 2022**

**Aims:** This event focused on self-management will help patient organisations explore how they can support their patient communities to self-manage their health conditions

**Chairs:** Kjeld Hansen (Oslo, Norway)

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<th>Time</th>
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<td>10:30</td>
<td><strong>Session 1</strong></td>
<td>Kjeld Hansen (Oslo, Norway)</td>
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</table>
| 10:50  | **Session 2**            | ERS President, Professor Marc Humbert  
ERS President-elect, Professor Carlos Robaldo Cordeiro  
Marc Humbert (Le Kremlin-Bicêtre, France), Carlos Robalo Cordeiro (Coimbra, Portugal) |
| 11:00  | **Session 3 - Keynote speakers** |                                                                 |
| 11:50  | **Break 1**              |                                                                         |
| 12:05  | **Session 4 - Patient organisation talks** |                                                   |
| 13:20  | **Lunch break**          |                                                                         |
| 14:05  | **Session 5 - Breakout groups** |                                                          |
| 15:05  | **Break 3**              |                                                                         |
| 15:20  | **Session 6 - Plenary feedback** |                                                |
| 15:50  | **Session 7 - Closing words** | Kjeld Hansen (Oslo, Norway)                                           |
Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Mohammed Munavvar (Preston (Lancashire), United Kingdom), Ádám Domonkos Tárnoki (Budapest, Hungary), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Vienna, Austria)

Assembly members' meeting: Assembly 10: Respiratory infections

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Eva Polverino (Barcelona, Spain), Michael Loebinger (London, United Kingdom), Raquel Duarte (Porto, Portugal), Alberto Garcia-Basteiro (Maputo, Mozambique), Holly R. Keir (Dundee (Angus), United Kingdom)

Assembly members' meeting: Assembly 12: Interstitial lung diseases

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Karen Moor (Rotterdam, Netherlands), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Maria Molina Molina (Barcelona, Spain), Wim A Wuyts (Leuven, Belgium), Antoine Froidure (Bruxelles, Belgium), Marcel Veltkamp (De Meern, Netherlands), Cormac McCarthy (Dublin 4, Ireland)
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<th>Session</th>
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<td>Session 42</td>
<td>Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology</td>
<td>11:00 - 12:00</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Hilary Pinnock (Edinburgh, United Kingdom), Ioannis Vogiatzis (Blyth, United Kingdom), Frits M.E. Franssen (Horn, Netherlands), Shailesh Balasheb Kolekar (Herlev, Denmark), Guido Vagheggi (Volterra (PI), Italy), Miguel Román Rodríguez (Palma De Mallorca, Spain), Vitalii Poberezhets (Vinnysia, Ukraine), Sam Bayat (Grenoble, France), Thomas Gilfe (Bobigny, France)</td>
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<tr>
<td>Session 43</td>
<td>Assembly members' meeting: Assembly 2: Respiratory intensive care</td>
<td>11:00 - 12:00</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Leo Heunks (Amsterdam, Netherlands), João Carlos Winck (Vila Nova de Gaia, Portugal), Christian Karagiannidis (Cologne, Germany), Marieke L. Duiverman (Groningen, Netherlands), Maxime Patout (Paris, France)</td>
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<td>Session 45</td>
<td>Assembly members' meeting: Assembly 4: Sleep disordered breathing</td>
<td>12:30 - 13:30</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Herraklion, Greece), Manuel Sanchez De La Torre (Lleida, Spain), Dries Testelmans (Leuven, Belgium), Matteo Bradicich (Zollikerkberg, Switzerland)</td>
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<td>Session 46</td>
<td>Assembly members' meeting: Assembly 7: Paediatrics</td>
<td>12:30 - 13:30</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Nicole Beydon (Paris, France), Angela Zacharaiswicz (Wien, Austria), Stojka Fustik (Skopje, North Macedonia), Marijke Proesmans (Leuven, Belgium), Anna Lavizzari (Milano (MI), Italy), Myrofora Goutaki (Bern, Switzerland), Dirk Schramm (Düsseldorf, Germany), Rory Morty (Heidelberg, Germany), Cristina Ardura-Garcia (Bern, Switzerland)</td>
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<td>Session 47</td>
<td>Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation</td>
<td>14:00 - 15:00</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy), Marcello Migliore (Catania (CT), Italy), Robin Vos (Leuven, Belgium), Merel Hellemons (Rotterdam, Netherlands)</td>
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<td>Session 48</td>
<td>Assembly members' meeting: Assembly 9: Allied respiratory professionals</td>
<td>14:00 - 15:00</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Daniel Langer (Leuven, Belgium), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Deniz Inal-Ince (Ankara, Turkey), Andreja Sajnic (Zagreb, Croatia), Joana Cruz (Leiria, Portugal)</td>
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<td>Session 49</td>
<td>Assembly members' meeting: Assembly 6: Epidemiology and environment</td>
<td>14:00 - 15:00</td>
<td>To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.</td>
<td>Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Om Prakash Kurmi (Coventry, United Kingdom), Rafael E. de la Hoz (New York, United States), Elif Dagli (Istanbul, Turkey), Orianne Dumas (Villejuif, France)</td>
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<tr>
<td>Session 50</td>
<td>Assembly members' meeting: Assembly 13: Pulmonary vascular diseases</td>
<td>15:30 - 16:30</td>
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Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link.

Chairs: Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France), Silvia Ulrich (Zurich, Switzerland), Laurent Bertoletti (Saint Etienne Cedex, France), Mona Lichtblau (Zürich, Switzerland)

Zoom Session 51 15:30 - 16:30
Assembly members' meeting: Assembly 11: Thoracic oncology
Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link.

Chairs: Torsten Gerriet Blum (Berlin, Germany), Najib M. Rahman (Oxford, United Kingdom), Georgia Hardavella (Athens, Greece), Kevin Blyth (Glasgow (Glasgow), United Kingdom), Maria Joana Pereira Catarata (Porto, Portugal)

Zoom Session 52 15:30 - 16:30
Assembly members' meeting: Assembly 5: Airway diseases, asthma, COPD and chronic cough
Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link.

Chairs: Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Lena Uller (Lund, Sweden), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Carolina Maria Gotera Rivera (Madrid, Spain)
08:00-09:15  
**INDUSTRY EARLY MORNING SYMPOSIUM**  
SEE PAGE 1

08:00-08:45  
**INDUSTRY SKILLS LAB WORKSHOP**  
SEE PAGE 1

8D  
**Session 60**  
08:00 - 10:20  
**Skills workshop: SW1 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls**  
**Tips and pitfalls in exercise, muscle and sleep assessment**  
**Aims:** To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.  
**Disease(s):** Sleep and breathing disorders  
**Method(s):** Imaging  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist  
**Chairs:** Samuel Verges (Grenoble, France)

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<td>08:00</td>
<td>Introduction</td>
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<td>08:00</td>
<td>Cardiopulmonary exercise testing: breathing patterns and dynamic hyperinflation</td>
<td>Pierantonio Laveneziana (Paris, France)</td>
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<td>08:00</td>
<td>Respiratory and locomotor muscle testing in clinical practice</td>
<td>Daniel Langer (Leuven, Belgium)</td>
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<td>08:00</td>
<td>From different pathophysiological traits revealed by polysomnography to treatment indications or combination of therapies</td>
<td>Manuel Sanchez De La Torre (Lleida, Spain)</td>
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<td>08:00</td>
<td>Implementation, titration and follow-up of positive airway pressure in patients with obstructive sleep apnoea</td>
<td>Athanasia Pataka (Thessaloniki, Greece)</td>
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8N  
**Session 62**  
08:15 - 09:30  
**Oral presentation: Lung physiology throughout life: applicability and assessment**  
**Disease(s):** Airway diseases, Interstitial lung diseases  
**Method(s):** Epidemiology  
**Chairs:** Rachel Ong-Salvador (Amsterdam, Netherlands), Laurie Smith (Sheffield (South Yorkshire), United Kingdom)

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<td>OA119</td>
<td>The longitudinal impact of body compartments on lung function in children, adolescents, and adults</td>
<td>Alina Ofenheimer (Zürich, Switzerland), Marie-Kathrin Breyer, Emiel F.M. Wouters, Caspar Schiffer, Sylvia Hartl, Otto C. Burghuber, Florian Krach, Frits M.E. Franssen, Tobias Mráz, Patricia Puchhammer, Robab Breyer-Kohansal</td>
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<td>OA120</td>
<td>Impact of the ERS/ATS 2021 guidelines for lung function interpretation</td>
<td>Marko Topalovic (Kessel-lo, Belgium), Paul Desbordes, Julie Maes, Karl Sylvester, Frans De Jongh, Wim Janssens</td>
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<td>OA121</td>
<td>Long term pulmonary function of infants born moderate-late preterm – A systematic review and meta-analysis</td>
<td>Cassidy Du Berry (Melbourne, Australia), Christopher Nesci, Jeanie Cheong, Tara FitzGerald, Sarah Ranganathan, Rheanna Mainzer, Lex Doyle, Elianne Vrijlandt, Liam Welsh</td>
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<td>OA122</td>
<td>Comparison of conventional and rapid gas analyzer-based assessment of single-breath DLCO in COPD patients</td>
<td>Christian Buess (Zürich, Switzerland), Andreas Piecyk, Rudolf Jörrres, Helgo Magnussen</td>
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<td>OA124</td>
<td>Safety of different types of loaded breathing in adult Fontan patients</td>
<td>Patrick Schön (Zürich, Switzerland), Kyle G. Boyle, Matthias Greutmann, Christina M. Spengler</td>
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<td>OA125</td>
<td>A verification-acceptability process for onboarding new PFT systems in a Canadian provincial accreditation program.</td>
<td>Carl D. Mottram (Rochester, United States), Teresa McCaskill, Francis Ervin, Navdeep Rakhra</td>
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Gas exchange after Covid-19 pneumonia
Salma Mokaddem Mohsen (Tunis, Tunisia), Khouloud Kechaou, Molk Maalej, Asma Chaker, Nadia Ben Lazreg, Saloua Ben Khamsa Jameleddine

Annual lung function change in PIZZ α₁-antitrypsin deficiency (A1ATD).
Mark Howlett-Foster (Cambridge, United Kingdom), Ben Knox-Brown, Matthew Rutter, Karl Sylvester, Ravi Mahadeva

Late Breaking Abstract - Physiological assessment of patients with airways dysanapsis using 129Xe MRI
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Demijade Jakymelen, Alberto Biancardi, Guilhem J Collier, Ho-Fung Chan, Paul J C Hughes, Martin L Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andrew J Swift, David Capener, Jody Bray, James Ball, Olly Rodgers, Ian Smith, Bilal A Tahir, Madhweshwa Rao, Graham Norquay, Nick D Weatherley, Leanne Armstrong, Latifte Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim M Wild

Discussion
All Speakers

Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care
Disease(s): Interstitial lung diseases, Airway diseases
Method(s): General respiratory patient care, Pulmonary rehabilitation, Endoscopy and interventional pulmonology
Chairs: Guido Vagheggini (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

Understanding the effectiveness of different aerobic training modalities in COPD: a component network meta-analysis
Thomas Ward (Leicester, United Kingdom), Charles Plumptre, Thomas Dolmage, Amy Jones, Ruth Tretheway, Pip Divall, Sally Singh, Martin Lindley, Michael Steiner, Rachael Evans

Exercise tolerance and limiting symptoms 5 and 12 months after hospital discharge from COVID-19
Molly M Baldwin (Leicester, United Kingdom), Enya Daynes, Urvee Karsanji, Hamish Mcauley, William  D Man, Rachael A Evans, Sally J Singh, P Hosp-Covid Collaborative Group

Anxiety and Depression in IPF and response to pulmonary rehabilitation (PR)
George D Edwards (Ilford, United Kingdom), Oliver Polgar, Suhani Patel, Ruth E Barker, Jessica Walsh, Jennifer Harvey, William D-C Man, Claire M Nolan

Improving the well-being in caregivers of patients with COPD using a home-based pulmonary rehabilitation program
Sarah Gephine (Pérenchies, France), Olivier Le Rouzic, Cécile Chenivessle, Jean-Marie Grosbois

Quality of ventilation in patients on home NIV included in a telemonitoring programme - TELVENT study
Sandrine Pontier-Marchandise (Toulouse Cedex 9, France), Joelle Texereau, Arnaud Prigent, Claudio Rabec, Jésus Gonzalez-Bermejo, Frédéric Gagnadoux, Alexia Letierce, Joao Carlos Winck

Impact of an online breathing and wellbeing programme (ENO Breathe) in people with persistent symptoms following COVID-19: a randomised controlled trial
Keir Philip (, United Kingdom), Harriet Owles, Stephanie Mcvey, Tanja Pagnuco, Katie Bruce, Harry Brunjes, Winston Banya, Jenny Mollica, Adam Lound, Suzi Zunpe, Amiad A M Abrahams, Vijay Padmanaban, Thomas H Hardy, Adam Lewis, Sarah Elkin, Nicholas S Hopkinson

Reduction of lung hyperinflation improves cardiac preload, contractility, and output in emphysema
Marieke van der Molen (Groningen, Netherlands), Jorine Hartman, Lowie Vanfleteren, Huib Kirstjens, Joost Van Melle, Tineke Willems, Dirk-Jan Slebos

Feasibility and effectiveness of eccentric training on limb muscle function and functional performance in patients with COPD: a pilot study
Simone Pancera (Manerbio, Italy), Nicola Francesco Lopomo, Roberto Porta, Antonella Sanniti, Riccardo Buraschi, Luca Nicola Cesare Bianchi

Surfactant protein-A (SP-A) is a novel marker of lung disorders in patients discharged after COVID-19 pneumonia
Olha Shchudro (Dnipro, Ukraine), Lyudmyla Konopkina

Discussion
All Speakers

Oral presentation: Early childhood risk factors for wheezing and later asthma
Epidemiology
Public health
Pulmonary function testing
Cell and molecular biology
General respiratory patient care
Physiology

Chairs: Sejal Saglani (London, United Kingdom), Christiane Lex (Goettingen, Germany)

**OA140**

**Early food intervention and skin emollients to prevent preschool asthma**

Anine Lie (Bekkestua, Norway), Marissa Leblanc, Martin Färdig, Ryas Vettukattil, Sigve Ådalen, Ingebjørg Skrindo, Sabina Wärnberg Gerdin, Berit Granum, Hrefna Kathrin Gudmundsdottir, Gunilla Hedlin, Angela Hoyez, Christine Monecyron Jonassen, Björn Nordlund, Eva Maria Reh binder, Anne Cathrine Staff, Cilla Söderhall, Sandra Ganrud Tedner, Hilde Aaneland, Karin Cecilie Lodrup Carlsen, Håvard Ove Skjerven

**OA141**

**Identification of oropharyngeal microbiome-driven asthma and wheezing clusters in children**


**OA142**

**Pollen exposure is associated with risk of respiratory symptoms during the first year of life**

Jakob Usemann (Basel, Switzerland), Amanda Gisler, Marloes Eeftens, Kees De Hoogh, Danielle Vienneau, Yasmin Salem, Sophie Yammine, Julian Jakob, Olga Gorlanova, Fabienne Decrue, Regula Gehrig, Urs Frey, Philipp Latzin, Oliver Fuchs

**OA143**

**Virus-specific airway immune response in early life is associated with childhood asthma**

Mathias Elsner Melgaard (København S, Denmark), Bo Lund Krogsgaard Chawes, Signe Kjeldgaard Jensen, Jakob Stokholm, Ann-Marie Malby Schoos, Suzanne Brix, Anders Eliasen, Casper-Emil Tingskov Pedersen, Hans Bisgaard, Klaus Bønnelykke

**OA144**

**Longitudinal effects of prenatal exposure to plastic-derived chemicals and their metabolites on asthma and lung function**

Francesca Sanna (Perth, Australia), Rachel Foong, Peter Franklin, Graham Hall, Peter Sly, Eric Thorstensen, Dorota Doherty, Jeffrey Keelan, Roger Hart

**OA145**

**Risk factors and age-related patterns of asthma-like symptoms in early childhood**

Julie Nyholm Kyvsgaard (Gentofte, Denmark), Bo L. Chawes, David Horner, Laura M. Hesselberg, Mathias E. Melgaard, Signe K. Jensen, Jonathan Thorsen, Nicklas Brustad, Klaus Bønnelykke, Hans Bisgaard, Jakob Stokholm

**OA146**

**Viral co-detection in severe bronchiolitis and lung function, allergic sensitization and asthma prevalence in school-aged children**

Maria Fernanda Gonzalez German (Madrid, Spain), Sara Ruiz-Gonzalez, Sonia Alcolea, Francisco Pozo, Inmaculada Casas, Cristina Calvo, María Luz García-García

**OA147**

**Establishing a paediatric airway epithelial model of acute wheezing illness**

Rebecca Watkinson (Clarkson, Australia), Samuel Montgomery, Kevin Looi, Ingrid Laing, Anthony Kicic

**OA148**

**Late Breaking Abstract - Bacterial airway colonization in neonates reveals a specific childhood asthma endotype**

Rikke Bjersand Sunde (Gentofte, Denmark), Jonathan Thorsen, Ann-Marie Malby Schoos, Jakob Stokholm, Klaus Bønnelykke, Bo Chawes, Hans Bisgaard

**OA149**

**Discussion**

All Speakers

**TP-1 in thematic poster**

Session 66 08:30 - 09:30

**Thematic poster: Clinical problems in respiratory medicine: 1**

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

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

**Chairs:** Jan Willem Duitman (Lelystad, Netherlands), Tiziana Patrizia Cremona (Bern, Switzerland)

**PA151**

**Persistent interstitial involvement in relation to the severity of SARS CoV-2 infection**

Ana Roca Noval (Madrid, Spain), Rocio García García, Miguel Jiménez Gómez, Eduardo Catalinas Muñoz, Julia Diaz Miravalls, Layla Diab Cáceres
PA152  Modification of the Rheumatoid Arthritis (RA) Patient Reported Experience Measure (PREM) for patients with Interstitial Lung Disease (ILD)
Jessica Mandizha (Exeter, United Kingdom), Anna Duckworth, Howard Almond, Graham Brown, Sarah Lines, Ana Jorge Da Ponte, Rebecca Shuttleworth, Joe Lanario, Matthew Steward, Ross Sayers, Chris Scotton, Michael Gibbons, Anne-Marie Russell

PA153  Late-onset noninfectious pulmonary complications after allogeneic hematopoietic stem cell transplantation- risk factors, prognosis
Özlem Isik (Ankara, Turkey), Gülände Cengiz Seval, Serhat Erol, Selami Koçak Toprak, Özlem Özdemir Kumbasar

PA154  Immunoglobulin G4-related thoracic disease: clinical and radiological findings of an eastern mediterranean cohort
Aslı Alkan Oncel (Ankara, Turkey), Gamze Durhan, Gozde Kubra Yardımcı, Umran Ozden Sertcelik, Bayram Farisogullari, Macit Artıyrek, Omer Karadag, Deniz Köksal

PA155  COVID-19 patients: predictive factors for home therapy oxygen
Nouha Guediri (Tunis, Tunisia), Islam Mejri Lajili, Nouha Boubaker, Selsebil Dabboussi, Samira Mhamdi, Chiraz Aichoua, Zied Moatameri

PA156  COVID-19 and comorbidity: possible complications of the complex pharmacotherapy
Kateryna Gashynova (Dnipro, Ukraine), Olena Y. Kovalenko, Olena N. Kovalenko, Vladyslava Rudakova

PA157  The examination of the second-line chemotherapy in SCLC patients with interstitial lung disease
Ryohto Ozaki (Tokushima, Japan), Hiroshi Nokihara, Youhei Yabuki, Atsushi Mitsuhashi, Hiroya Yoneda, Kenji Otsuka, Hirokazu Ogino, Yasuhiko Nishioka

PA158  Service evaluation of cardiac MRI imaging in patients presenting with an undiagnosed eosinophilia
Hnin Wint Aung (Market Harborough, United Kingdom), Kay Kyaw, Mohammad Bilal Habib, Shamsha Naveed, Salman Siddiqui

PA159  Distribution of sequelae in post-covid patients according to previous need of respiratory support
Enrico Buonamico (Bari (BA), Italy), Andrea Portacci, Fabrizio Diaferia, Paola Pierucci, Esterina Boniello, Ilaria Iorillo, Cristian Locorotondo, Sara Quaranta, Ernesto Lulaj, Giovanna Elisiana Carpanzano

PA160  Long-term symptoms in patients with EVALI (e-cigarette or vaping associated lung injury) compared with people who vape
Denitza Blagev (Salt Lake City, United States), Sean Callahan, Dixie Harris, Dave Collingridge, Mona Hopkins, Jackie Eve, Lindsey Waddoup, Valerie Aston, Samuel Brown, Michael Lanspa

PA161  Bacterial Etiology of Slow Resolving Pneumonia in adults: Study of 138 cases
Muhammad Irfan (Lahore (Punjab), Pakistan), Syed Amir Gilani, Ejaz Qureshi, Abdul Rasheed Qureshi

PA162  Predictive factors for Long COVID in adults previously hospitalized for COVID-19
Leila Douik El Gharbi (Ariana, Tunisia), Ines Moussa, Tasnim Znegui, Imen Sahnoun, Maroua Boughacha, Asma Allouche, Chiraz Ksouri

PA163  Idiopathic Pulmonary Fibrosis in Australia: A cost of illness study.
Ingrid A. Cox (Bellerive (TAS), Australia), Barbara De Graaff, Hasnat Ahmed, Julie Campbell, Petr Otahal, Tamera Corte, Yuben Moodley, Nicole Goh, Peter Hopkins, Sacha Macansh, Haydn Walters, Andrew Palmer

PA164  Gender differences in frequency-based parameters of COVID-19 cough at varying levels of disease severity
Clare Davidson (Barcelona, Spain), Oswaldo Antonio Cagdana, Manual Lozano-Garcia, M Arita, Luis Estrada-Petrocelli, Ignasi Ferrer-Lluis, Yolanda Castillo-Escario, P Ausin, Joaquin Gea, Raimon Jané

PA165  Comparing patient outcomes from COVID-19 infection across three separate waves
Paren Choahan (BROMSGROVE, United Kingdom), Andrew Crawford, Muhammad Zafar, Ellepola Wijayasinghe, Mazhar Chaudri

PA166  Prone positioning procedure in COVID-19 radiological phenotypes
Pasquale Tondo (Foggia, Italy), Giulia Scioscia, Filomena Simone, Giulio Giganti, Michela Salvemini, Antonella Giuliani, Anela Hoxhallari, Maria Pia Foschino Barbaro, Donato Lacedonia

PA167  Younger Age as a Predictor of Mortality from COVID-19 in Hematological Patients
Kateryna Gashynova (Dnipro, Ukraine), Hanna Usenko

PA168  Intra-hospital complications during SARS-CoV2 infection
Carina Rôlo Silvestre (S. João das Lampas, Portugal), Catarina Custódio, Susana Clemente, Silvia Rodrigues, Sofia Furtado, Rui Maio
**PA170**
Differences between former smokers and non-smokers during post-Covid period
Darjan Ranilović (Zagreb, Croatia), Ivan Marasović, Ivona Kovačević, Đivo Ljubičić, Jasna Tekavec-Trkanjec

**PA171**
IMPALA: efficacy measures in patients who required whole lung lavage
Yoshikazu Inoue (Osaka, Japan), Badrul Chowdhury, Jack Bennett, Đhaval Desai

**PA172**
Assessing human lung pharmacokinetics using exhaled breath particles (PEx)
Jens Hohlfeld (Hannover, Germany), Olaf Holz, Muhammad Waqas Sadiq, Julian Nehrig, Birthe Ellinghusen, Nadja Struß, Ulf G Eriksson, Markus Fridén, Stina Stomilovic, Anders Lundqvist

**PA173**
Improvements in Awake Cough Frequency in SOOTHE, A Phase 2b Trial of BLU-5937 in Refractory Chronic Cough
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lorcan Mcgarvey, Alyn H. Morice, Surinder S. Birring, James Hull, Sylvain Lanouette, Ronghua Yang, Kristin Bartholomew, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli

**PA174**
The Effect of Inhaled Salbutamol on Mannitol Evoked Cough Responses: A Double-Blind Randomized Placebo Controlled 2-way Cross-Over Study
Mustafaa Wahab (Hamilton, Canada), Ruth Cusack, Caitlin Obminski, Karen Howie, Abbey Schlatman, Kieran Killian, Paul Obyrne, Imran Satia, Gail Gauvreau

**PA175**
Real World Effectiveness and Tolerability of low-dose opiates for Refractory/Unexplained Chronic Cough (RCC/UCC) in a tertiary clinic
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, James Wingfield-Digby, Sarah Hennessey, Ashley Woodcock, Jaclyn Smith, Paul Marsden

**PA176**
Safety and tolerability of inhaled molgramostim in autoimmune pulmonary alveolar proteinosis (aPAP)
Francesco Bonella (Düsseldorf, Germany), Jack Bennett, Badrul Chowdhury, Đhaval Desai

**PA177**
Efficacy in SOOTHE, A Phase 2b Trial of BLU-5937 In Refractory Chronic Cough, Was Not Dependant of Taste Disturbance Adverse Events
Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Lorcan Mcgarvey, Alyn H. Morice, Alan Goldsobel, Sylvain Lanouette, Ronghua Yang, Anna Levengood, Margaret Garin, Catherine M. Bonuccelli

**PA178**
Characteristics of Participants with Refractory Chronic Cough Enrolled in A Phase 2b Trial of BLU-5937
Alyn Hugh Morice (Cottingham, United Kingdom), Jaclyn A. Smith, Surinder S. Birring, Lorcan Mcgarvey, Peter Dicpinigaitis, Mandel Sher, Sylvain Lanouette, Ronghua Yang, Margaret Garin, Catherine M. Bonuccelli

**PA179**
Suicidal ideation, depression and anxiety in chronic cough
Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Anna Simpson, Harini Kesavan, Richard Turner, Jim Hull, Mary Docherty, Caroline Jolley, Surinder S Birring, Peter S S Cho

**PA180**
Health-related quality of life and its determinants in patients with chronic cough: a case-control study
Noeul Kang (Seoul, Republic of Korea), Ha-Kyeong Won, Ji-Hyang Lee, Ji Su Shim, Min-Hye Kim, Sung-Yoon Kang, Han-Ki Park, Eun Jung Jo, Seung Eun Lee, Sang-Heon Kim, Sae-Hoon Kim, Yoon-Seok Chang, Byung-Jae Lee, Min-Woo Jo, Woo-Jung Song

**PA181**
IMPALA-2: choice of DLCO as a primary endpoint in aPAP
Bruce Trapnell (Cincinnati, United States), Đhaval Desai, Badrul Chowdhury

**PA182**
Canadian health care professionals’ perceptions on the management and effectiveness of treatment of chronic cough – results from a healthcare sample survey
Nermin Diab (Toronto, Canada), Élena Kuin, Mustafaa Wahab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

**PA183**
Analysis of transport mechanisms of substances applied to the airways in a transparent airway model
Christian Cornelissen (Aachen, Germany), Anja Lena Thiebes, Michael Dreher, Stefanie Gürzing, Manuel Reddemann
The effect of the COVID-19 pandemic on severe asthma care in Europe - will care change for good?

EVALUATION OF INCIDENCE AND COMPLICATIONS DURING COVID-19 DESEASE IN PATIENTS WITH ASTHMA
Jaime Pavon Guede (Madrid, Spain), Paul Kent Ernesto Freund, Ricardo Antonio Camperos Moreno, Isamar De Agrela Mendes, Katherine Pose, Inés Fernández Concha Llona, Daniel Laorden Escudero, Carlos Javier Carpio Segura, Javier Dominguez Ortega, David Romero Ribate, Itsaso Losantos García, Santiago Quirce, Rodolfo Alvarez-Sala Walther

The perspective of clinical pharmacologist: what is the safety of complex polypharmacy in hospitalized COVID-19 patients?
Katerina Gashynova (Dnipro, Ukraine), Olena Kovalenko, Vladyslava Rudakova, Ksenia Suska, Natalya But

Validity of a pathological score in the assessment of severe uncontrolled asthma
Hanaa Shafieh (Alexandria, Egypt), Cristina Gomez, Amanda Iglesias, Mar Mosteiro, Ana Gonzalez-Piñeiro, Marta Rodriguez, Mónica García-Cosío, Eladio Busto, Javier Martin, Melchor Saiz, Bairro Paz, Amparo Benito, Luis Mejías, Laura Lopez Vilaro, Borja G. Cosio

A case of excavated pneumopathy after bronchial thermoplasty
Nicolas Miguereus (Strasbourg, France), Mathilde Steger, Naji Khayath, Mickael Ohana, Christophe Marcot, Frederic De Blay

Formoterol exerts anti-cancer effects modulating oxidative stress and EMT processes in CSE exposed lung adenocarcinoma cells
Maria Ferraro (Palermo (PA), Italy), Serena Di Vincenzo, Simona Taverna, Elisabetta Pace

Sputum rheology in stable and exacerbated chronic obstructive pulmonary disease
Abdulmalik Abdi (, Switzerland), Desiree Schumann, Léo Franchetti, Wei-Chih Chen, Michael Tamm, Daiana Stolz

Variability of fractional exhaled nitric oxide may predict acute exacerbations in COPD
Eleni Papakonstantinou (Basel, Switzerland), Desiree Schumann, Konstantinos Kostikas, Leticia Grize, Michael Tamm, Daiana Stolz

Symmetric Projection Attractor Reconstruction: Analysis of waveform morphology predicts COPD exacerbations
Miquel Serna Pascual (London, United Kingdom), Rebecca D'Cruz, Ying Huang, Philip Aston, Caroline Jolley, Gerrard Rafferty, Joerg Steier, Manasi Nandi

Clinical characteristics of eosinophilic and noneosinophilic exacerbations of COPD: relationship with sputum eosinophils and FENO
Balazs Antus (Budapest, Hungary), Csilla Paska, Imre Barta

Respiratory reactance is related to future COPD exacerbations
Andrei Malinovschi (Uppsala, Sweden), Karin Lingman, Christer Janson, Kristina Bröms, Karin Lisspers, Björn Ställberg, Marieann Högman

Clinical consequences of health measures and lock down for covid-19 in exacerbations in patients with chronic obstructive pulmonary disease (COPD)
Carlos Manzano Senra (Lleida, Spain), Laura Alcarraz, Anna Moncusí, Sally Santisteve, Jessica Gonzalez, Ferran Barbé
PA196   SYSTEMIC PROTEOMIC PROFILES OF COPD PATIENTS AT CLINICAL STABILITY AND EXACERBATION
César Jessé Enriquez-Rodríguez (Barcelona, Spain), Carme Casadevall, Sergi Pascual-Guardia, Rosa Faner, Germán Peces-Barba, José Luis López-Campos, Eduard Monsó, Alvar Agustí, Joaquim Gea Guiral

PA197   Relationship between the microbiome and the GOLD Stage during exacerbations
Laia Fernandez Barat (Barcelona, Spain), Ruben Lopez-Aladid, Leticia Bueno-Freire, Adrian Ceccato, Arturo Huerta, Nestor Soler, Antoni Torres

PA198   Heart Rate Recovery After Cardiopulmonary exercise test Predicts Acute Exacerbation in COPD
Shan Nie (Beijing, China), Ailin Yang, Wei Yuan, Bo Xu, Nan Jia, Haoyan Wang

PA199   Modifiable factors associated with acute exacerbations in patients with chronic obstructive pulmonary disease
Shehanaaz Begum (Trivandrum, India), Reshmi Nair, Kamala R, Anithakumari K

PA200   COVID-19 incidence and hospitalization in routine clinical practice among COPD patients in England in 2020
Kieran Rothnie (London, United Kingdom), Theo Tritton, Xu Han, Tim Holbrook, Beade Numbere, Alexander Ford, Lucy Massey, Qingqong Fu, Fiona Hutchinson, Helen Birch, David Leather, Raj Sharma, Chris Compton, Afisi Ismaila

PA201   Impact of rs16969668 polymorphism (SNPα5) on epithelial differentiation in COPD patients
Lynda SABER CHERIF (REims, France), Zania Diabasana, Jeanne-Marie Perotin, Julien Ancel, Phillipe Gosset, Uwe Maskos, Gaetan Deslée, Valerian Dormoy

PA202   COPD and COVID-19: a dangerous association?
Lucia Méndez González (Santa Maria da Feira, Portugal), Jorge Ferreira, Cátia Caneiras

PA203   Are neutrophil to lymphocyte ratio and platelet to lymphocyte ratio a useful markers to predict the severity of COPD and future acute exacerbation?
Aissa Sana (Sousse, Tunisia), Omrane Asma, Knaz Asma, Bentzari Wafa, Ben Jazia Rahma, Kacem Ameni, Gargouri Imene, Abdelghani Ahmed, Hayouni Abdelaziz

PA204   A visual and innovative representation of the clinical trajectory of patients after an acute exacerbation of COPD. Results of the COHERENT-COPD study
Gema Maria Siesto Lopez (AVILA, Spain), Joaquin Sanchez-Covisa Hernandez, Clara Gorni Echevarria, Hector Bueno Zamora, Jose Luis Bernal Sobrino, Monica Juarez Campo, Maria Piñeiro Roncal, Maria Teresa Tejedor Ortiz, Carlos José Alvarez Martinez

PA205   Utility of echocardiographic measurement in assessing pulmonary arterial hypertension (PH) in COPD and correlation with severity and potential risk of acute exacerbation within 30 days
Aissa Sana (Sousse, Tunisia), Omrane Asma, Bentzari Wafa, Knaz Asma, Ben Jazia Rahma, Kacem Amani, Gargouri Imene, Abdelghani Ahmed, Hayouni Abdelaziz

PA206   Mortality according to age, sex, or congestive heart failure after an acute COPD exacerbation. COHERENT-COPD study.
Maria Piñeiro Roncal (Madrid, Spain), Eduardo Catalinas Munoz, Joaquin Sanchez-Covisa Hernandez, Clara Gorni Echevarria, Hector Bueno Zamora, Jose Luis Bernal Sobrino, Monica Juarez Campo, Maria Teresa Tejedor Ortiz, Gema Maria Siesto Lopez, Carlos Jose Alvarez Martinez

PA207   Applying machine learning to telehealth care data to predict acute COPD exacerbations.
Peta Jacobson (LINKÖPING, Sweden), Marina Santini, Leili Lind, Hans Lennart Persson

PA208   Blood eosinophil counts during severe exacerbations do not reflect stable state inflammatory phenotype in COPD
Arun Prasad (Newcastle Upon Tyne, United Kingdom), Carlos Echevarria, John Steer, Stephen C Bourke

PA209   Hyperhomocysteinemia as the main thrombophilic risk marker in COPD
Elnorahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko

TP-12 in thematic poster area
Session 69  08:30 - 09:30

Thematic poster: Interest of PROMS in chronic airway diseases

Disease(s) : Airway diseases

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

Chairs : Manlio Milanese (Pietra ligure (SV), Italy), Chair to be confirmed
| PA210 | Expiratory flow limitation in association to symptoms and quality of life in asthma, COPD and healthy subjects | Abir Nasr (Teckomatorp, Sweden), Georgia Papapostolou, Kerstin Romberg, Linnea Jarenbäck, Jaro Ankerst, Alf Tunsäter, Leif Bjærmer, Ellen Tufvesson |
| PA211 | Baseline characteristics associated with change in COPD symptoms over 2 years | Andrei Malinovski (Uppsala, Sweden), Christe Janson, Andreas Palm, Maria Hårdstedt, Amir Farkhooy, Karin Lisspers, Kristina Bröms, Björn Ställberg, Marieann Högman |
| PA212 | The evaluation of patients’ life quality, spirometry parameters and level of exercise tolerance in case of asthma-COPD overlap and diabetes mellitus type 2 (DM2) | Valeria Halutska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv |
| PA213 | Burden of disease in both asthma and COPD: one questionnaire? | Liz Cuperus (Rotterdam, Netherlands), Cathelijne Van Zelst, Gert-Jan Braunstahl, Johannes In ‘T Veen |
| PA214 | Assessment of dyspnea in severe exacerbation of chronic obstructive pulmonary disease using the Multidimensional Dyspnea Profile (MDP) | Alexander Stump (Essen, Germany), Ulrike Domanski, Maik Schröder, Georg Nilius |
| PA215 | Evaluation of bronchial hyperreactivity in patients after Covid-19 infection | Gunta Strazda (Riga, Latvia), Marta Ievina, Olga Madaja, Normunds Jurka, Valentina Gordjusina, Immanuels Taivans |
| PA216 | Functional capacity testing of citizens with COPD in limited settings - a feasibility study | Anders Lokke (Højbjerg, Denmark), Jeppe Gabriel Spence, John Brincks, Line Neustrup, Elisabeth Bomholt Østergaard |
| PA217 | Role of Asthma School in disease management | Martina Zappa (Tradate, Italy), Dina Visca, Patrizia Pignatti, Francesco Ardesi, Rosella Centis, Elisabetta Zampogna, Francesca Cherubino, Federico Mattia Oliva, Laura Saderi, Giovanni Sotgiu, Giovanni Battista Migliori, Antonio Spanevello |
| PA218 | Asthma Impairment and Risk Questionnaire (AIRQ) Performance in US Minority Patients | Maureen George (New York, United States), David A. Beuther, Kevin R. Murphy, Robert S. Zeiger, Robert A. Wise, Joan Reibman, Bradley Chupps, Ilench Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin S. Coyne, William McCann |
| PA219 | Prevalence of depression and anxiety among COPD patients and association with CAT Score:Findings from a lower-middle income country | Manahil Malik (Al Khobar, Saudi Arabia), Taymmia Ejaz, Mahmood Iqbal Malik, Andleeb Raja |
| PA220 | Clinical implication of DLCO to reflect disease control in patients with COPD | Sun-young Yoon (Sejong-si, Republic of Korea), Ock-Hwa Kim, Jae Young Moon |
| PA221 | Anxiety-depressive syndrome in multi-hospitalized chronic obstructive pulmonary disease patients | KHALED DEGHDEGH (Annaba, Algeria), Lyemna Belaid, Besma Terra, Randa Yâkoubi, Ferial Atouei, Rachid Benali, Fouad Khalloufi |
| PA222 | “Life-changing”- the experience of super-responders to biologics in severe asthma | Ross Sayers (Exeter, United Kingdom), Joseph Lanario, Lucy Cartwright, Rupert Jones, Michael E. Hyland, Matthew Masoli |
| PA223 | Predictors of poor disease control and impaired quality of life (QOL) in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC) | Vipula Bataduwaarachchi (Portsmouth, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Clair Barber, Peter Howarth, Chauhan Anoop |
| PA224 | The usability of app-based spirometry tests for detection of exercise-induced bronchoconstriction in athletes | Martine Isachsen (Hägersten, Sweden), Tonje Reier-Nilsen, Julie Stang, Hanne Flatsetøy, Henrik Ljungberg, Björn Nordlund |
| PA225 | The value of ventilation-perfusion scintigraphy in severe asthma control characterisation | Diogo Miguel Monteiro Canhoto (Coimbra, Portugal), Cláudia Chaves Loureiro |
| PA226 | Identification of new spirometric indices predicting severe COPD | Rimi Kammoun (Sfax, Tunisia), Sana Sallemi, Fatma Elleuch, Sana Ben Jmeaa, Ines Kammoun, Kaouthar Masmoudi |
| PA227 | Systematic literature review of the impact of asthma control on patient outcomes | Alexandrosz Czira (Brentford, United Kingdom), Xuan Wang, Shivaprasad Singuru, Christos Papagiannopoulos, Kieran Rothnie, Claire Trenerry, Shiyuan Zhang |
### Late Breaking Abstract - Real-world retrospective database analysis of COPD exacerbations before and during the COVID-19 pandemic in Europe (REACT)

Dmitry Galkin (Apex, United States), Alessandro Guasconi, Joseph Imperato, Ruben Hermans, Stefania Pirondi, George Georges

### Late Breaking Abstract - Health status relationship with exacerbations in a real-world cohort of patients with physician-assigned COPD in NOVELTY

Hana Müllerová (Cambridge, United Kingdom), Stefan Franzén, Laura Belton, Clement Erhard, Clementine Nordon, Rod Hughes, Mohsen Sadatsafavi, Christer Janson

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**TP-13 in thematic poster area**

**Session 70**

**08:30 - 09:30**

**Thematic poster: Miscellaneous: biomarkers for the management of chronic lung diseases**

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

**Thoracic disorders:** Epidemiology, Public health, Pulmonary function testing, Physiology

**Chairs:** Nikoletta Rovina (Athens, Greece), Ane Johannessen (Bergen, Norway)

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**PA230**

**Characteristics of medication errors among respiratory drugs within the Food and Drug Administration’s Adverse Event Reporting System**

Katia Mc Verhamme (Rotterdam, Netherlands), Victor Pera, Peter Rijnbeek, Johan Van Der Lei, Jan Kors, Rowan Parry, Erik Van Mulligen, Marcel De Wilde, Guy Brusselle, Guy Brusselle

**PA231**

**Abdominal and general obesity: associations with asthma and COPD in women and man.**

Marta Alina Kisiel (Uppsala, Sweden), Andrei Malinovschi, Eva Lindberg, Mathias Holm, Thorarinn Gislason, Vivi Schlunssen, Karl Franklin, Ane Johannessen, Christer Janson

**PA232**

**Programmatic advantage of cost-effective and highly sensitive rapid COVID-19 diagnostic with two-step screening strategy for airport quarantine in Bangladesh**

Farzana Zaman (Dhaka, Bangladesh), Muhammad Asaduzzaman

**PA233**

**Spatial assessment of disease surveillance during the first wave of the COVID-19 pandemic**

Florence Tydeman (glasgow, United Kingdom), Kim Kavanagh, Chris Robertson

**PA234**

**Incidence of dyspnea and hyperventilation syndrome after COVID-19**

Sabra Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Rahma Sellami, Ahmed Dhiaa Eleuch, Racem Ammar, Imen Ketata, Hamida Kwas

**PA235**

**Tuberculosis in healthcare workers of Ukraine**

Artemii Bogomolov (Vinnytsia, Ukraine), Sergii Zaikov, Oksana Litvinyuk

**PA236**

**Characterisation and burden of eosinophilic granulomatosis with polyangiitis: a European retrospective study**

Rupert Jakes (London, United Kingdom), Namhee Kwon, Lynn Huynh, Jeremiah Hwee, Lee Baylis, Rafael Alfonso-Cristancho, Shawn Du, Anamika Khanal, Mei Sheng Duh

**PA237**

**Reference values for respiratory impedance in adult men and women: data from the Austrian LEAD Study.**

Christoph Valach (Vienna, Austria), Emil F. M. Wouters, Alina Ofenheimer, Patricia Puchhammer, Pasquale P. Pompilio, Alessandro Gobbi, Marie K. Breyer, Sylvia Hardt, Otto C. Burghuber, Robab Breyer-Kohansal

**PA238**

**Respiratory symptoms and lung function in Women**

Nadia Hammache (Alger, Algeria), Salim Nafti, Rachid Abdelbazi

**PA239**

**Association of tuberculosis infection with asthma in a european multinational cohort**

Sanjay Gyawali (Bergen, Norway), Juan Pablo López Cervantes, Tehmima Mustafa, Cecilie Svanes, Rajesh Shigdel

**PA240**

**Treatment with oral anticoagulants and risk of mortality in COVID-19 patients**

Sarah Altaraihi (Copenhagen, Denmark), Peter Kamstrup, Josefin Eklof, Pradeesh Sivapalan, Jens Ulrik Staehr Jensen

**PA241**

**Associations for food and carbohydrate intake with asthma in young Chinese adults from Singapore and Malaysia**

Qi Yi Ambrose Wong (Singapore, Singapore), Jun Jie Lim, Jun Yan Ng, Praneeth Malipeddi, Wei Yi Teo, Yi Ying Eliza Lim, Yi Ru Wong, Keng Fu Teh, Smyrna Moti Rawanan Shah, Kavita Reginald, Yee How Say, Sri Anusha Matta, Yang Yie Sio, Fook Tim Chew

**PA242**

**The many diseases associated with dyspnoea: a MeSH term and semantic analysis of the PubMed literature**

Troy Cross (Forest Lodge, Australia), Sarah Morris, Hayley Lewthwaite
Association between candidate gene polymorphisms and total IgE in adult subjects with asthma: preliminary results from the GEIRD study
Valentina Lando (Verona, Italy), Lucia Calciano, Giovanni Malerba, Cristina Bombieri, Marcello Ferrari, Nicola Murgia, Morena Nicolis, Mario Olivieri, Simone Accordini

Adipokines in restrictive spirometric pattern
Ulf Nilsson (Umeå, Sweden), Hermön Amman, Stefan Söderberg, Anders Blomberg, Helena Backman, Anne Lindberg

Second primary lung cancer, an increasingly recognised entity in cancer survivors.
Hardeep Singh Kalsi (London, United Kingdom), Des Campbell, Nick Low, Richard Lee

Bronchiectasis and pneumonia-hospitalization risk: The impact of social distancing measures – A cohort study
Valdemar Rømer (Copenhagen, Denmark), Martina Bjorka Fosgaard, Pradeesh Sivapalan, Josefin Eklöf, Mohammad Isam Saeed, Louise Lindhardt Tonnesen, Alexander Svorre Jordan, Rikke Sørensen, Tina Gissel, Ulla Weinreich, Sofie Johansson, Jens-Ulrik Staehr Jensen

Late Breaking Abstract - Real world endotype stability and exacerbation rates in T2low asthma
Arja Viiinanen (Paimio, Finland), Juhani Aakko, Gunilla Telg, Kaisa Nieminen, Mariann Lassenius, Hannu Kankaanranta, Lauri Lehtimäki

Late Breaking Abstract - Race/ethnic, social, environmental, and genetic correlates to lung function decline: the Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study

Late Breaking Abstract - α1-Antitrypsin deficiency associated with increased risk of heart failure in two large populations
Sine Winther (København S, Denmark), Eskild Landt, Børge Nordestgaard, Niels Seersholm, Morten Dahl

Utility of spirometry, metacholine test, induced sputum, exhaled NO and exhaled breath condensate pH for the diagnosis of work-related asthma: a real-life study
David Soler Segovia (Barcelona, Spain), Maria Jesús Cruz Carmona, Miquel De Homdedeu, Silvia Sánchez Diez, Íñigo Ojanguren, David Espejo, Xavier Muñoz Gall

Occupational asthma from welding fumes, all irritant?
Vicky Moore (Birmingham (West Midlands), United Kingdom), Alastair Robertson, Christopher Huntley, Gareth Walters, Sherwood Burge

Household use of green and home-made cleaning products, wipe form and asthma
Emilie PACHECO DA SILVA (Villejuif, France), Guillaume Sit, Marcel Goldberg, Benedicte Leynaert, Rachel Nadif, Celine Ribet, Nicolas Roche, Marie Zins, Raphaëlle Varraso, Orianne Dumas, Nicole Le Moual

Longitudinal associations of household use of cleaning agents and asthma symptoms
Emilie PACHECO DA SILVA (Villejuif, France), Melanie Ngutuka, Oriane Dumas, Laurent Orsi, Pierre Lemire, Joane Quentin, Isabelle Pin, Raphaëlle Varraso, Valerie Siroux, Nicole Le Moual

Preliminary findings of volatile organic compounds, alkaline dusts and formaldehyde exposure in hospital workers and evaluating their relationship with genotoxicity and oxidative stress biomarkers
Ayşe Coşkun Beyan (Izmir, Turkey), Gamze Tuna, Esra Emerec, Gül İşlekel, Yucel Demiral

Occupational exposures, asthma and asthma control in the NutriNet-Santé cohort
Guillaume Sit (Paris, France), Raphaëlle Varraso, Léopold Fezeu, Pilar Galan, Florence Orsi, Emilie Pacheco Da Silva, Mathilde Touvier, Serge Hercberg, Christophe Paris, Nicole Le Moual, Oriane Dumas

Work-related symptoms in students first exposed to laboratory animal after 10 months of follow-up
Elcio Dos Santos Oliveira Vianna (Ribeirao Preto (SP), Brazil), Isabel Bricoleri, Ivana Labadessa

Occupational asthma, rhinitis and contact urticaria in greenhouse workers
Irmeli Lindström (Helsinki, Finland), Pirjo Hölttä, Liisa Airaksinen, Katri Suuronen, Sari Suomela, Hille Suojalehto

Thematic poster: Occupational asthma and upper airway diseases

Method(s): Pulmonary function testing  Epidemiology  Public health  Cell and molecular biology
Chairs: Orianne Dumas (Villejuif, France), Xavier Munoz Gall (Barcelona, Spain)

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Occupational exposure to cleaning agents and respiratory health in healthcare professionals
Behzad Heibati (Oulu, Finland), Maritta S. Jaakkola, Taina K. Lajunen, Inês Paciência, Ali Karimi, Jouni J.K. Jaakkola

Clinical features and risk factors of intermediate-onset asthma.
Martina Turrin (CORDENONS, Italy), Chiara Contin, India Sofia Dalla Rosa, Matteo Bonato, Erica Bazzan, Micaela Romagnoni, Manuel G. Cosio, Marina Saetta, Simonetta Baraldo

Allergic rhinitis in the work environment
Ons Grissa (Tunis, Tunisia), Nihel Khouja, Jihen Hsinet, Emma Baraketi, Saloua Ismaïl, Aida Benzarti, Abdelmajid Ben Jemaa

Respiratory allergies to thermal degradation products of plastic
Ons Grissa (Tunis, Tunisia), Nihel Khouja, Touka Yahyaoui, Saloua Ismaïl, Aida Benzarti, Jihen Hsinet, Abdelmajid Ben Jemaa

Occupational respiratory allergies to tobacco leaves (About 3 cases)
Ons Grissa (Tunis, Tunisia), Amani Dallagi, Jihen Hsinet, Nihel Khouja, Emma Baraketi, Saloua Ismaïl, Touka Yahyaoui, Aida Benzarti, Abdelmajid Ben Jemaa

Work-related dysphonia in subjects with sensitizer-induced occupational asthma is associated with neutrophilic inflammation
Nicolas Migueres (Strasbourg, France), Olivier Vandenplas, Jolanta Walusiak-Skorupa, Marta Wiszniewska, Xavier Munoz, Hille Suojalehto, Irmeli Lindstrom, Vera Van Kampen, Paola Mason, Piero Maestrelli, Joaquin Sastre, Santiago Quirce, Catherine Rifflart, Julien Godet, Frédéric De Blay

Relationship between sleep quality and occupational asthma control
Amen MOUSSA (sousse, Tunisia), Asma Chouchane, Lynda Mahjoub, Maher Maoua, Wafa Benzarti, Sana Aissa, Marwa Bouhoucha, Asma Aloui, Imen Kacem, Aicha Brahem, Houda Kalboussi, Olfa El Maalel, Souheil Chatti, Abdelaziz Hayouni, Nejib Mrizak

Impact of occupational activity on the development or the exacerbation of asthma
Dorra BRAHIM (Tunis, Tunisia), Najla Mechergui, Imen Youssef, Hanene Ben Said, Mariem Mersni, Nizar Ladhari

Impact of gender on work productivity loss and activity impairment in asthmatic patients

Assessing asthma control and severity of work-related asthma cases in the NutriNet-Santé cohort
Louis Khan (Rennes, France), Raphaëlle Varraso, Nicole Le Moual, Orianne Dumas, Mathilde Touvier, Léopold Fezeu, Pilar Galan, Serge Hercberg, Christophe Paris

Late Breaking Abstract - Inflammatory endotype before and after specific inhalation challenge in patients with work-related asthma
Paola Mason (Padova (PD), Italy), Diletta Arcidiacono, Eleonora Rachele Paccagnella, Marco Biasioli, Piero Maestrelli, Filippo Liviero, Anna Chiara Frigo

Feasibility of wearable respiratory monitoring in paediatric sleep medicine: early insights
Ross Langley (Glasgow, United Kingdom), Elise Buchan, Hannah Gibson, Bruce Henderson, Osian Meredith, Mathilde Touvier, Léopold Fezeu, Pilar Galan, Serge Hercberg, Christophe Paris

Sleep outcomes in spinal muscular atrophy and role of disease-modifying treatments.
Daryl Butler (Dublin, Ireland), Ioannis Makariou, Mariacristina Scoto, Vasantha Gowda, Miguel Fernandez, Elizabeth Wragie, Heinz Jungbluth, Francesco Muntoni, Hui-Leng Tan, Federica Trucco

Sleep disturbances in children with cystic fibrosis and primary ciliary dyskinesia at the beginning and in the first year of COVID-19 pandemic
Tugba Sişmanlar Eyuboglu (Ankara, Turkey), Ayse Tana Aslan, Tugba Ramasli Gursoy, Pelin Asfuroglu, Azime Sebnem Soysal, Dilek Yapar, Mustafa Neemi İhan

Thematic poster: Paediatric sleep disorders and management in various diseases
Disease(s) : Sleep and breathing disorders
Method(s) : Physiology General respiratory patient care Epidemiology Public health Respiratory intensive care
Chairs : Hui Leng Tan (London, United Kingdom), Cristina Ardura-Garcia (Bern, Switzerland)
Feasibility of wearable respiratory monitoring in paediatric sleep medicine: early insights
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Orofacial myofunctional evaluation in children with Down Syndrome and obstructive sleep apnea
Suzana Erico Tanni (Botucatu (SP), Brazil), Suzana Tanni, Silke Anna Theresa Weber, Daniela Barreto E Silva Pitta, Camila De Castro Correa, Karina A Santos, Jefferson L De Barros, Antonio Carlos Marão, Catia Fonseca

Respiratory evolution of children with Spinal Muscular Atrophy Type 1 under gene therapy
Rosário Ferreira (Lisbon, Portugal), Ana Saianda, Joana Coelho, Teresa Moreno

Need for establishment of multi-disciplinary management guidelines for children with CHARGE syndrome on respiratory support; 10 years’ experience in Cambridge University Hospital (CUH)
Sarah Nethercott (Cambridge (Cambridgeshire), United Kingdom), Laura Baird, Louise Edwards, Donna Meshane, Doxa Kotsia

Every breath you take, we'll be watching you!
Neha Mohan Rao (Birmingham, United Kingdom), Ciaran Mcardle, Joanna Bennett, Benjamin Davies, Satish Rao, Priti Kenia

Home cardiorespiratory sleep studies in children: single-centre experience and caregiver opinions.
Kanwal Jehanzeb (Birmingham, United Kingdom), Nikoletta Lofitou, Rosin Kay, Ciaran Mcardle, Fiona Robinson, Benjamin Davies, Satish Rao, Priti Kenia

Home mechanical ventilation in children: The experience of pediatric pulmonology divisions in Istanbul

Continuous positive airway pressure therapy in children with Down syndrome and obstructive sleep apnoea: outcome and predictive factors.
Inez Vanholder (Edegem, Belgium), Sophie Installé, Anse Van Ostaeyen, Stijn Verhulst, An Boudewyns, Kim Van Hoorenbeek

4-year experience of nurse-led non-invasive ventilation (NIV) clinic at a specialist paediatric respiratory centre.
Joanna Bennett (Birmingham, United Kingdom), Neha Rao, Laura Morris, Satish Rao, Benjamin Davies, Priti Kenia

How do we determine successful non-invasive ventilation (NIV) success in children: Carer and Clinician opinion
Kim Lund (Newcastle, United Kingdom), Christopher Grime, Liam Durkin

Development of a new nurse-led non-invasive ventilation (NIV) initiation pathway for children and young people (CYP)
Neha Mohan Rao (Birmingham, United Kingdom), Joanna Bennett, Laura Morris, Satish Rao, Benjamin Davies, Priti Kenia

Thematic poster: Cystic fibrosis in children and adolescents
Disease(s): Airway diseases
Method(s): General respiratory patient care Pulmonary function testing Epidemiology Cell and molecular biology Physiology Public health
Chairs: Stojka Fustik (Skopje, North Macedonia), Annelies M. Zwieterloot (Groningen, Netherlands)

“Early” Pseudomonas aeruginosa colonization in cystic fibrosis patients

Respiratory outcomes at 6 months follow up after SARS-Cov-2 infection in people with cystic fibrosis
Paola Medino (Milano, Italy), Chiara Rosazza, Maria Serena Boraso, Fabiana Ciciriello, Marco Cipolli, Andrea Gramegna, Vincenzina Lucidi, Arianna Biffi, Erica Nazzari, Gianfranco Alicandro, Carla Colombo

The concentration of hCAP-18/LL-37 and hBD-2 in cystic fibrosis patients
Oksana Ishchenko (Kamiany, Ukraine), Dmytro Stepanskyi
**Eradication treatment of Pseudomonas Aeruginosa in pediatric patients with Cystic Fibrosis.**
Aynur Gulieva (İstanbul, Turkey), Cansu Yılmaz Yeğit, Muruvvet Yanaz, Mine Kalyoncu, Merve Selcuk, Gamze Tastan, Burcu Süzer, Pınar Ergenekon, Ela Erdem Eralp, Yasemin Goldemir, Fazilet Karakoc, Bülent Karadag

**Experience with the use of inhaled carbapenems in a Spanish Cystic Fibrosis Unit**
Marta Bascuas Arribas (Madrid, Spain), Patricia Fernández García, Verónica Sanz Santiago, Sofía Martín Hernández, Alejandro López Neyra, Belén Hernández Millán, Javier Alvarez-Coca, María Camino Serrano, Francisca Romero Andujar, José Ramón Villa Asensi, Rosa Maria Girón Moreno

**Clinical features of SARS-CoV-2/COVID-19 infection in children with cystic fibrosis (CF): A Qatari experience**
Khalid Zahraldin (Doha, Qatar), Sara Hamad, Hiba Kammouh

**Cystic fibrosis competence check: A educational tool for paediatric patients with CF**
Stefanie Diemer (Lund, Sweden), Karolina Wallin, Kristel Björkman

**The association between the cumulative dose of aminoglycoside exposure and hearing loss in children with cystic fibrosis**
Cansu Yilmaz Yeğit (İstanbul, Turkey), Pınar Ergenekon, Muruvvet Yanaz, Aynur Guliyeva, Mine Kalyoncu, Ozge Meral, Merve Selcuk, Gamze Taştan, Burcu Uzunoglu, Nilufar Ayaz, Merve Gökdemir, Ela Erdem Eralp, Pınar Ata, Ayça Cıpurt, Fazilet Karakoc, Bülent Karadag

**Ciliary dyskinesia might be secondary to chronic inflammation in cystic fibrosis**
Romane Bonhiver (Liege, Belgium), Noemie Bricmont, Maud Pirotte, Marc-Antoine Wuidart, Jessica Potocna, Anna Bręborowicz, Aleksandra Szczepankiewicz

**CFTR function in respiratory epithelial cell cultures: step to individualize treatments in cystic fibrosis?**
Joerg Grosse-Onnebrink (Münster, Germany), Vanessa Mete, Heymut Omran, Wolf Michael Weber

**Prolonged exposure to heat does not affect clinical and biochemical characteristics in patients with cystic fibrosis**
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Panayiotis Kouis, Katerina Pantavou, Antonis Michanikou, Andreas Matthiai, Kalliopi Ioakim, Louisa Sophocleous, Georgios Nikolopoulos, Panayiotis Yiallouros

**Search for airway-derived miRNA biomarkers in pulmonary exacerbation in children with cystic fibrosis**
Zuzanna Stachowiak (Poznan, Poland), Beata Narożna, Wojciech Matysiak, Irene Wojsyk Banaszak,, Katarzyna Jończyk Potoczna, Anna Bręborowicz, Aleksandra Szczepankiewicz

Karin M. De Winter - De Groot (Culemborg, Netherlands), Marelle J. Bouva, Kitty P.B. Van Der Ploeg, Rendelien K. Verschoof - Puite, Vincent A.M. Gulmans, Johannes J.P. Gille, Bernadette S. Jakobs, Marie-Louise Heijnen

**Benzbromarone for the treatment of cystic fibrosis (CF) lung disease: a pilot clinical trial.**
Leonardo Pinto (Porto Alegre (RS), Brazil), Frederico Frederico Friedrich, Laura De Castro E Garcia, Lucas Montiel Petry, Marina Pieta, Amanda Da Silva Menezes, Luana Braga Bittencourt, Luiza Xavier, Marcos Brum Antunes, Karl Kunzelmann

**Late Breaking Abstract - Diagnostic testing in people with primary ciliary dyskinesia around the world: where do we stand?**
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Isabelle Cizeau, Catherine Kruļjač, Jane S Lucas, Myrofora Goutaki, Claudia E Kuehni
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<td>Abdessalem Hentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Walid Abid, Imed Frikha</td>
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<td>Primary Spontaneous Pneumothorax in late adolescents. Are we treating our patients in the best possible way?</td>
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<td>Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Andrej Mazur, Pavel Homolka, Zdenek Chovanec, Monika Bratova, Ladislav Mitas, Zdenek Merta, Michal Svoboda</td>
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<td>PA307</td>
<td>Surgical Management of Superior Sulcus Tumors: A Twenty-Year Experience of an Oncological Referral Centre</td>
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<td>Luca Bertolaccini (Milan, Italy), Lorenzo Spaggiari</td>
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<td>To what extent does oxidized regenerated cellulose reinforcement during video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?</td>
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<td>Masao Naruke (Tokyo, Japan)</td>
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<td>Hua Zhang (Rizhao (Shandong), China), Guangwei Xue, Zhongmei Sun, Wei Zhang, Weiwei Xu, Zongtao Liu, Changsheng Ge, Zhigang Zheng</td>
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<td>Efstatios Metaxas (Aio Liosia - Athens, Greece), Dimitrios Lioumpas, Dimitrios Paschalinos, Antonios Antoniadis, Teoana Kiknadeze, Panagiota Pantoula, Ioannis Stamatos, Evangelos Georgios Fergadis, Georgios Benakis</td>
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Thematic poster: Extrapulmonary traits and respiratory physiotherapy

Session 75 08:30 - 09:30

**PA318**
Functional status and impact of the disease in people with COPD according to symptoms’ burden
Ana Filipa Machado (São Carlos, Brazil), Janae Souza Schafauer, Nicole Marques Sgarbosa, Erik Zavaglia Kabbach, Alessandro Dominguez Heubel, Débora Mayumi De Oliveira Kawakami, Naiara Tais Leonardi, Aurely Borghi-Silva

**PA319**
Pain and fatigue inference in patients with severe COPD refraining from PR attendance: A cross-sectional multicenter study
Henrik Hansen (Dragør, Denmark), Jeanette Hansen, Stig Mølsted, Charlotte Suppli Ulrik, Nina Godtfredsen

**PA320**
Investigation of the relationship between cognitive function and upper extremity exercise capacity in COPD- a pilot study
Elvan Felekoglu (Izmir, Turkey), Bedriye Dag, Ilknur Naz, Melissa Kopruluoglu, Hulya Sahin

**PA321**
Effect of physical effort on postural balance in COPD and OSA
Caroline Machado de Senho (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho-Pinto, Rafael Stelmach, Geraldo Lorenzi-Filho, Rafaela Fagundes Xavier, Celso Ricardo Fernandes Carvalho

**PA322**
Postural balance in COPD with obstructive sleep apnea: a cross-sectional study
Caroline Machado de Senho (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho-Pinto, Rafael Stelmach, Geraldo Lorenzi-Filho, Rafaela Fagundes Xavier, Celso Ricardo Fernandes Carvalho

**PA323**
Brain-heart autonomic axis, health status, symptomatology and functionality in AECOPD
Renata Mendes (São Carlos (SP), Brazil), Nathany Souza Schafauer, Nicole Marques Sgarbosa, Erik Zavaglia Kabbach, Alessandro Domingues Heubel, Débora Mayumi De Oliveira Kawakami, Naiara Tais Leonardi, Audrey Borghi-Silva

**PA324**
Characteristics of individuals with moderate to severe asthma who better respond to aerobic training: a cluster analysis
Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Adriana Lunardi, Patricia Freitas, Tiago Endrigue, Ronaldo Silva, Felipe Mendes, Andreza França, Regina Carvalho-Pinto

**PA325**
Relationship of dietary pattern with body composition and symptoms in patients with COPD
Joana Cruz (Leiria, Portugal), Tiago Novo, Sofía Flora, Marlene Lages, Nâdia Hipólito, Marisa Cebola, Maria P. Guarino

**PA326**
Cardiac autonomic function, exercise capacity and physical activity in patients with COPD
Fien Hermans (Gent, Belgium), Eva Arents, Astrid Blondeel, Patrick Calders, Thierry Troosters, Eric Derom, Heleen Demeyer

**PA327**
Factors associated with asthma-related quality of life in moderate-to-severe asthma
Karen Hjerrild Andreason (Naestved, Denmark), Mike Thomas, Soren T Skou, Uffe Bodtger

**PA328**
Validity and Reliability of upper limb muscles strength measurements by handheld dynamometer in COPD
Marc Beaumont (Morlaix, France), Loic Pérane, Anne-Cécile Berriet, Rodolphe Keller, Catherine Le Ber

**PA329**
Investigation of Factors Associated with Fall Risk in Lung Cancer Survivors
Buşra Turgut (Izmir, Turkey), Ilknur Naz, Sevtap Güney Uçurum, Berna Komurcuguolu, Derya Ozer Kaya

**PA330**
Investigation of the relationship between balance, self-confidence, fear of falling, and physical function in cancer patients who have undergone lung resection.
Buşra Turgut (Izmir, Turkey), Ilknur Naz, Sevtap Gunay Ucurn, Berna Komurcuguolu, Derya Ozer Kaya

**PA331**
Fatigue in COPD patients on long term oxygen therapy: a cross-sectional study
Mara Paneroni (Mazzano (BS), Italy), Michele Vitacca, Laura Comini, Beatrice Salvi, Massimo Venturelli
### Comparison of Sitting Balance and Functional Independence Levels of COPD Patients Receiving and Not Receiving Non-Invasive Mechanical Ventilation Therapy
Büsra Turgut (Izmir, Turkey), İlknur Naz, Cenk Kıraklı

### Comparison of Disease Knowledge Level, Dyspnea, Disease Status and Quality of Life in COPD Patients with and without Comorbidities
Elvan Felekoglu (Izmir, Turkey), Melissa Köprülüioğlu, İlknur Naz, Hülya Şahin

### Association of sleep quality-quantity with sedentary time and physical activity in bronchiectasis
Victoria Alcaraz Serrano (Barcelona, Spain), Beatriz Herrero-Cortina, Ane Arbillaga-Etxarri, Rodrigo Torres-Castro, Juan Daniel Martí-Romeu, Laia Fernández-Barat, Antoni Torres-Martí, Elena Gimeno-Santos

### Late Breaking Abstract - Innovative exercise for optimizing exercise intensity in COPD
Johan Jakobsson (Umeå, Sweden), Jana De Brandt, Mattias Hedlund, Anna-Clara Rullander, Andre Nyberg

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**Thematic poster: Biomarkers in COVID**

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

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

**Chairs:** Timothy Hinks (Oxford, United Kingdom), Camille Rolland-Debord (clermont-ferrand, France)

### Associates of neutrophil/lymphocyte ratio in patients with COVID-19 infection: A single center experience
Burcu Turan (Istanbul, Turkey), Ezgi Baysal, Can Omur, Yahya Abdurrahman, Caner Çınar, Derya Kocakaya, Sehnaz Olgun Yıldızeli, Emel Eryüksel, Sait Karkurt, Baran Balcan

### Biomarker profiles associated with COVID-19 severity and mortality
Silvia Sánchez-Díez (Barcelona, Spain), Carlos Gómez Olles, Miquel De Homdedeu, David Espejo, Cristina Fábregas, María Jesús Cruz, Xavier Muñoz

### Vitamin d3 and its association with covid-19 disease severity: a prospective study
Ankita Mohanty (Bhubaneswar, India), Gopal Purohit, Chaina Ram Choudhary, Ashok Kuwal, Vikram Bajiya

### RELATION BETWEEN FERRITIN LEVELS AND PULMONARY AFFECTATION IN COVID-19.
Esperanza Guzmán Ansado (Madrid, Spain), Ana Ochoa-Ruiz, Norman Andrés Villamagua-Arias, Juan Francisco De Mesa Alvarez, Ángela Hidalgo Herranz, Silvia Sans Pérez, Soledad Torres Tienza, Carmen Lorenzo Martínez, Maja Cristina Yanlli Bonduke, José María Rodríguez-Fernández, Sergio Campos Téllez

### Can IL-6 serve as a reliable biomarker of clinical outcome in COVID19 pneumonia?
Georgia Hardavella (Athens, Greece), Stavroula Mavrea, Elena Bellou, Ioanna Marinou, Eili Keramida, Erasmia Georgakopoulou, Irma Bracka, Thodoris Daskalos, Spyros Mazarakis, Ioannis Karampinis, Maria Salomidou, Antonios Xipolitis, Nikolaos Anastasiou, Despoina Zorpoudou, Panagiotis Demertzis, Simona Karabela

### Thyroid dysfunction reflects severity of COVID-19 pneumonia in hospitalized patients
Ioannis Machairas - Sállas (Nea Erythraia, Greece), Lykourgos Kolilekas, Anastasia Levounets, Dionysios Tsoukalas, Eleftherios Zervas, Mina Giga

### Neutrophil-to-lymphocyte : a useful biomarker for predicting severity in coronavirus disease-2019 (COVID19)

### Thyroid dysfunction reflects severity of COVID-19 pneumonia in hospitalized patients
Ioannis Machairas - Sállas (Nea Erythraia, Greece), Lykourgos Kolilekas, Anastasia Levounets, Dionysios Tsoukalas, Eleftherios Zervas, Mina Giga

### Neutrophil-to-lymphocyte : a useful biomarker for predicting severity in coronavirus disease-2019 (COVID19)

### Lactate dehydrogenase level: A predictive marker for severe COVID-19 infection

### Is serum 25-hydroxyvitamin D levels associated with severity of COVID-19 disease? A retrospective study
Maria Boesing (Liestal, Switzerland), Fabienne Jaun, Giorgia Lüthi-Corridori, Anja Makhdoomi, Jürgen Muser, Jörg Daniel Leuppi

### Laboratory markers as predictor factor of clinical and radiological severity in hospitalized patient with covid-19
Sabrine Majdoub Fehri (Nabeul, Tunisia), Iman Ketata, Rahma Sellami, Wafa Medi, Hamida Kwass

### COVID-19 Severity Index (SI): is it a sensitive predictor score for disease outcome in hospitalized patients?
Kateryna Gashynova (Dnipro, Ukraine), Vladyslava Rudakova, Victoria Rodionova, Natalya But
Plasminogen activator inhibitor-1 (PAI-1) like the best mortality predictor of in the COVID-19-associated pneumonia
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Tetyana Pertseva

Evolution of IL-6 as possible marker of viral control in Covid-19
Cristina De Diego Ramos (Zaragoza, Spain), Lucia López, Laura Torralba, Ana Lasierra, Raquel Lahoz, Claudia Abadia, Pablo Ruiz De Gopegui, Alberto Ceboellada, Javier Godino, Beatriz Jimeno, Salvador Bello

Lactate dehydrogenase (LDH) reinforcement in predicting Covid-19 patient’s outcomes
Hind Eid (Beirut, Lebanon), Antoine El Kik, Albert Riachi, Elio Mekhail, Karim Hoyek, Nabil Nassim, Georges Khayat, Ghassan Sleilaty, Moussa Riachi

Relationship between hypercoagulability of hospitalized patients with COVID-19 disease with the clinical course of the disease as determined by the method of rotational thromboelastometry (ROTEM).
Natasa-Eleni Loutsidi (Glyfada, Greece), Marianna Politou, Vasilios Vlahakos, Dimitrios Korakakis, Theodora Kassi, Asimina Nika, Abraham Pouliakis, Konstantinos Eleutheriou, Apostolos Pappas, Ioannis Kalomenidis

THE MOST INFORMATIVE BIOMARKERS AS PREDICTORS OF MORTALITY IN COVID-19 PNEUMONIA
Yuliia Huba (Dnipropetrovsk, Ukraine), Ksenia Bielosludtseva, Lyudmyla Konopkina

Prognostic value of initial KL–6 (Krebs von den Lungen 6) plasma level during COVID-19 pneumonia
Camille Rolland-Debord (clermont-ferrand, France), Alice Letellier, David Luque Paz, Guillaume Lefèvre, Laurence Pieroni, Antoine Parrot, Jacques Cadranel

Prognostic value of Platelet-to-lymphocyte ratio in hospitalized patients with COVID-19 pneumonia
Nouha Boubaker (Nabeul, Tunisia), Islam Mejri, Nouha Guediri, Salsabil Daboussi, Samira M’Hamdi, Chiraz Aichaouia, Zied Moetemri

Adipokines levels in hospitalized patients for COVID-19 and their role in prognosis
Dorina Rama Esendagli (Ankara, Turkey), Deniz Topcu, Eylem Gul, Cansu Alperen, Sule Akcay

TP-2 in thematic poster area
Session 77
08:30 - 09:30

Thematic poster: Pulmonary rehabilitation in clinical conditions beyond COVID

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

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

Chairs : Michele Vitacca (Gussago (BS), Italy), Jatu Aphridasari (Surakarta (Central Java), Indonesia)

Late Breaking Abstract - Availability and characteristics of pulmonary rehabilitation programs in family health centers and hospitals from Chile: cross-sectional and multicentric study
Andrea Méndez (Santiago, Chile), Carlos Nieto, Gonzalo Hidalgo

Learning of self-administered Active Cycle of Breathing Technique in patients with nCFb
Rita Santos (Leiria, Portugal), José Ferreira, Sandra Ferreira, João Costa, Filipa Januário

Outpatient pulmonary rehabilitation for patients with lung cancer: a retrospective real-world analysis
Ralf Harun Zwick (Wien, Austria), Oliver Illini, Dietlinde Gattinger, Milos Petrovic, Arschang Valipour, Hannah Fabikan, Maximilian Johannes Hochmair

Urinary incontinence is frequent among people with chronic respiratory disease attending pulmonary rehabilitation.
Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Fanny Laporte, Léna Bocquet, Pauline Smonodack, Guillaume Prieur, Yann Combret, Clément Médralin, Boujbar Fairuz, Jean-François Muir, Antoine Cuvelier, Francis-Edouard Gravier

Predictors of survival in adults with Duchenne muscular dystrophy
Anne-Christin Stöwhas (Zürich, Switzerland), Michael Furian, Esther Irene Schwarz, Beat Kindler, Michael Rosche, Frank Habersatter, Henning Arndt, Konrad Ernst Bloch

Cognitive and psychological consequences of moderate-to-severe COVID-19 pneumonia: associations with clinical variables in convalescent patients without previous comorbidities.
Claudio Candia (Naples, Italy), Pasquale Moretta, Pasquale Ambrosino, Anna Lanzillo, Salvatore Fuschillo, Antimo Papa, Luigi Trojano, Eliana Sferra, Antonio Molino, Mauro Maniscalco
Rehabilitation facilitates the natural recovery of symptoms, mental health and quality of life outcomes post COVID-19.
Andreas Asimakos (Athens, Greece), Stavroula Spetsioti, Ioannis Vogiatzis, Aspasia Mayronasou, Pandelis Gounopoulos, Dimitra Sioussiaoura, Efi Dima, Niki Gianiou, Ioanna Sigala, Sofia Pappa, Spyros Zakynthinos, Anastasia Kotanidou, Paraskevi Katsaounou

A psychological needs analysis of individuals with Long-Covid
Amy Barradell (Leicester (Leicestershire), United Kingdom), Claire Bourne, Sally Singh, Noelle Robertson

Early experiences of the your COVID recovery® programme for individuals with long COVID
Nikki Gardiner (Leicester, United Kingdom), Phoebe H I Lloyd-Evans, Molly M Baldwin, Enya Daynes, Annabel Hong, George Mills, Amylee Goddard, Emma Chaplin, Sally J Singh

Employment status of referrals to a regional Long COVID service in the United Kingdom.
Hafsa Shams-Khan (Liverpool, United Kingdom), Nneka Nwosu, Laura Watkins, Gurinder Tack

Effects of pulmonary rehabilitation on major symptoms of long COVID (post-COVID-19 syndrome)
Esperance Moine (Lodeve, France), Virginie Molinier, Francois Alexandre, Adriana Castanyer, Antonin Vernet, Amandine Calvat, Perrine Magrina, Melissa Roux, Audrey Fauge, Joan Lluis Aliaga Parera, Nicolas Oliver, Nelly Heraud

Effects of pharmacological and non-pharmacological interventions on physical activity outcomes in chronic respiratory diseases: a systematic review and meta-analysis
Dimitrios Megaritis (Lodeve, France), Virginie Molinier, Francois Alexandre, Elodie Four, Laurene Charbonnel, Alain Varray, Nelly Heraud

The first-year experience of a long covid clinic in a UK district general hospital
Amarceluvalli Sivaramakrishnan (Aylesbury, United Kingdom), Jaiminkumar Patel, Imogen Cotter, Tania Emiliou, Mitesh Desai, Mitra Shahidi

Clinical phenotyping in COPD patients treated with triple therapy and admitted to a rehabilitative center: a real-world retrospective study.
Michele Vitacca (Gussago (BS), Italy), Beatrice Salvi, Piero Ceriana, Luigi Rizzello, Antonio Spanevello, Mauro Maniscalco, Bruno Balbi, Claudio Bruschi, Paolo De Nardi, Mara Paneroni

The appropriate outcome measure of pulmonary rehabilitation in individuals with chronic obstructive pulmonary disease
Michele Vitacca (Gussago (BS), Italy), Mara Paneroni, Beatrice Salvi, Nico Ambrosino

Striking high prevalence of quadriceps strength non-response after pulmonary rehabilitation in COPD
Marion Desachy (Jacou, France), Virginie Molinier, Francois Alexandre, Elodie Four, Laurene Charbonnel, Alain Varray, Nelly Heraud

How do Motor Neurone Disease (MND) patients perceive a Home Visit (HV) service at the Royal Berkshire Hospital (RBH)?
Francesca Knight (Reading, United Kingdom), Karena Cranstone, Anne Mcgown, Grace Robinson

Functional recovery of hospitalised patients with covid-19: a prospective cohort study
Marla Beauchamp (Hamilton, Canada), Renata Kirkwood, Andrew Costa, Mylinh Duong, Terence Ho, Rebecca Kruisselbrink, Hope Morrison, Aaron Jones, Parminder Raina

Impact of COVID-19 restrictions on physical activity in adults with severe asthma: a preliminary two-year retrospective analysis
Caroline Reilly (Leeds, United Kingdom), Ian Clifton, Daniel Peckham, Antonios Stavropoulos-Kalinoglou, Oliver Price

Clinical and functional characteristics of patients recovering from severe COVID-19 attending an inpatient pulmonary rehabilitation program
Luca Nicola Cesare Bianchi (Rovato (BS), Italy), Silvia Campagnini, Chiara Arienti, Andrea Mannini, Giorgia Mancini, Alessandro G Calabrò, Lucrezia Pianigiani, Paolo I Banfi, Janis Ruggeri, Serena Monteleone, Roberto Porta, Francesco Gigliotti

TP-20 in thematic poster area
Session 78 08:30 - 09:30
Thematic poster: Bronchiectasis: 1
Disease(s): Airway diseases Interstitial lung diseases
Method(s): Imaging General respiratory patient care Pulmonary function testing Public health Cell and molecular biology Epidemiology
Chairs: Rosanel Amaro Rodriguez (Premia de Dalt (Barcelona), Spain), Amelia Shoemark (Dundee (Angus), United Kingdom)
**PHENOTYPIC CLUSTERING IN NON-CYSTIC FIBROSIS BRONCHIECTASIS PATIENTS: THE ROLE OF NEUTROPHILS IN DISEASE SEVERITY**

Xuejie Wang (Barcelona, Spain), Carmen Villa, Yadira Dobarganes, Casilda Olveira, Rosa Girón, Marta García-Clemente, Luis Máz Carro, Oriol Sibila, Rafael Golpe, Rosario Menéndez, Juan Rodríguez-López, Concepción Prados, Miguel Angel Martínez-García, Juan Luis Rodriguez, David De La Rosa, Xavier Duran, Jordi García-Ojalvo, Esther Barreiro

**Clinical characteristics and imaging of adult PCD patients: a single-center experience.**

Chrysavgí Kosti (Gerakas, Greece), Vasilios Tzilas, Antonia Digitalaki, Sofia Koukidou, Ioannis Tomos, Georgios Hillas, Serafeim Chrysikos, Emmanouela Zervou, Katerina Dimakou

**Clinical, radiological and bacteriological profile of patients with Bronchiectasis and asthma coexistence.**

Antonia Digitalaki (Athens, Greece), Sofia Koukidou, Georgios Hillas, Chrysavgí Kosti, Serafeim Chrysikos, Aiakaterini Ioanna Sakellaropoulos, Katerina Dimakou

**Use of multidimensional scales to predict outcomes in admissions due to bronchiectasis exacerbation.**

Blanca Urrutia Royo (Barcelona, Spain), Marina Compte Vives, Ignasi García-Olivé, Carlos José Folgado López, Jorge Abad Capa, Antoni Rosell Gratacós

**Demographic and clinical features of Swedish patients with bronchiectasis; preliminary results from a tertiary EMBARC centre.**

Apostolos Bossios (Stockholm, Sweden), Pia Ghosh, Ingrid Gerhardson, Nawfal Bedi, Sara Barsch Cormacchini, Nikolaos Lazarinis, Barbro Dahlen, James D Chalmers

**Primary ciliary dyskinesia in Volendam: diagnostic and phenotypic features in patients with a CCDC114 mutation**

Renate Kos (Soest, Netherlands), Joël Israëls, Christine D L Van Gogh, Josje Altenburg, Sandra Diepenhorst, Tamara Paff, Ellis M J Boon, Gerard Pals, Anne H Neerincx, Anke H Maitland-Van Der Zee, Eric G Haarman

**The Bronchiectasis- rhinosinusitis association is characterized by sputum eosinophilia**

Michal Shleibngein (Haifa, Israel), James Chalmers, Miki Rahat, Elina Simanovich, Shai Cohen, Nizar Abu-Hilu, Sharon Avital, Emad Mohammed, Jenny Gershbiin, Nili Stein, Sonia Schnee, Najwan Nasrallah, Iya Eisenberg, Yochai Adir

**Etiology, clinical, radiological and microbiological profile of patients with non-CF bronchiectasis in Tunisia**

Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub, Wafa Medi

**Comparison of hospital admissions in people with bronchiectasis between the covid-19 pandemic (2020) and pre-pandemic period (2019)**

Beatriz Herrera Cortina (Zaragoza, Spain), Xunxiao Lin, Ana García-Esteban, Guillermo Samuel Loscertales-Vacas, Marta Martín Lana, Elena Borobia-irache, Ana Cristina Aguelo-velilla

**Imaging analysis of sarcopenia in a cohort of stable patients with bronchiectasis**

Mariela Nieves Alvarado Miranda (Reus, Spain), Adriana Nuñez Robainas, María Pérez Peiró, Salvatore Marsico, Alberto Solano López, Esther Barreiro

**Bronchiectasis in Pakistan: A retrospective review of patients with non-cystic fibrosis bronchiectasis at a tertiary care center**

Syed Muhammad Zubair (Karachi, Pakistan), Shayan Shahid, Ali Bin Abdul Jabbar, Abdullah Wagley, Muhammad Daniyal Musharraf, Haris Zahid, Muhammad Irfan

**PROFILE OF CLINICAL AND ANALYTICAL PARAMETERS IN BRONCHIECTASIS PATIENTS DURING THE COVID-19 PANDEMIC: A ONE-YEAR FOLLOW-UP STUDY.**

Liyun Qin (Barcelona, Spain), Filipe Gonçalves-carvalho, Yingchen Xia, Jianhua Zha, Mireia Admetlló, José María Maiques, Sandra Esteban-Cucó, Xavier Duran, Alicia Marin, Esther Barreiro

**Long-term outcome of nebulised antibiotic prophylaxis in bronchiectasis: a retrospective cohort study**

Keith Hattotuwa (Chelmsford (Essex), United Kingdom), Wei Chin Ng, Jack Mulholland
Prevalence of LasB elastase variants from Pseudomonas aeruginosa respiratory isolates and their inhibition by novel LasB inhibitor ANT3273
Agustina Llanos (Labège, France), Clarisse Lozano, Jérôme Castandet, Magdalena Zalacain, Michael Tunney, Rachel Mairs, Gisli Einarsson, Martin Everett

Diagnostic value of multiple breath washout in patients with chronic productive cough
Niklas Ziegahn (Berlin, Germany), Charlotte O Pioch, Mirjam Stahl, Marcus A Mall, Jobst F Roehmel

Host transcriptomic signature for viral and bacterial infection at exacerbation of COPD–The longitudinal PAX-I study
Andrei Darie (Basel, Switzerland), Desiree M. Schumann, Leticia Grize, Kathleen Jahn, Matthias J. Herrmann, Werner Strobel, Hans Hirsch, Michael Tamm, Daiana Stolz

TP-21 in thematic poster area
Session 79 08:30 - 09:30

Thematic poster: COVID complications

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

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

Chairs: Søren Sperling (Aarhus N, Denmark), Chair to be confirmed

Spontaneous pneumomediastinum, subcutaneous emphysema and pneumothorax in non-intubated patients with COVID-19 pneumonia: a retrospective case note review of a single centre experience
Randeep Karwal (WILLENHALL, United Kingdom), Anastasia Fries, Sara Tsimerman, Dewmi Subasinghearac, Lydia Holden, Sharon Power, Yasser Madani

CoVid-19 and Influenza co-infection within North-West England: Flu-Rona – we won't ever find it if we don't look for it
Fred Fyles (Liverpool, United Kingdom), Phoebe Hazenberg, Jonathan Folb, Daniela Ferreira, Hassan Burhan, Andrea M Collins

Clinico-etiological Profile of COVID-19 Cases with Cavitary Lung Lesions
Arjun Kumar (Rishikesh, India), Prakhar Sharma, Girish Sindhwani

Taste and smell disorders during and post-acute Covid-19 in the population of Agadir
Abdelkrim Khannous (Agadir, Morocco), Fatiha Bounoua, Houda Moubachir, Hind Serhane

Pneumothorax in ARDS hospitalized Covid-19 patients: risk factors, therapeutic strategies and outcome
Beatrice Ruggero, Tiziana Cena, Mario Malerba

Venous and arterial thromboses in hospitalized patients with acute COVID-19 at University Hospital Dubrava
Ivana Kovacevic (Zagreb, Croatia), Jasna Tekavec Trkanjec, Divo Lubicic, Ivan Marasovic, Darjan Ranilovic, Marko Lucijanic, Nevenka Piskac Zivkovic

Short term impact of COVID19 pneumonia on cardiovascular profile
Irma Bracka (GALATSI ATHENS, Greece), Ioannis Karampinis, Eleni Bellou, Elli Keramida, Thodoris Daskalos, Panagiotis Demertzis, Georgia Hardavella

Characterization of respiratory sequelae following SARS-CoV-2 infection, a monocenter study
Aurélien Justet (Paris, France), Jean Richeux, Jasper Flint, Margaux Pasquesoone, Armelle Mouadil, Pierre Cuchet, Fouquet Helene, Nicolas Aide, Simon Deshayes, Vincent Lepennec, Emmanuel Bergot

Olfactory dysfunction in COVID-19 according to individuals’ perception and olfactory test among health care workers
THIAGO SERRANO (CAMPINAS, Brazil), Marcelo Antonio, Lorena Giacomin, Fernando Marson, Jose Dirceu Ribeiro, Eulalia Sakano

Comparative study assessing the Pulmonary Function impairment in patients affected during Covid-19 1st and 2nd wave
Rajesh Agrawal (Bareilly, India), Amit Kumar, Rishi Saini, Javied Malik

Incidence of pneumothorax, subcutaneous emphysema and pneumomediastinum in patients with COVID – 19
Pavel Yordanov (Varna, Bulgaria), Valentina Dimitrova
Case report: Spontaneous pneumomediastinum (SPM) and intestinal perforation secondary to COVID-19 in the same patient.

Albino Petrone (Cosenza (CS), Italy), Pietro Scrivano, Andrea Corsonello, Giuseppe Francesco Rago, Francesco Cesario, Carlo Lorenzo Manfredi, Achille Gaudio, Enrico Scarpelli, Angelo Barbato

Thematic poster: Tuberculosis, COVID-19 and other coinfections

Thematic poster: Tuberculosis, COVID-19 and other coinfections

Disease(s): Airway diseases

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

Chairs: Ayşegül Fusun Öner Eyüboğlu (Ankara, Turkey)

PA406

Case report: Spontaneous pneumomediastinum (SPM) and intestinal perforation secondary to COVID-19 in the same patient.

Albino Petrone (Cosenza (CS), Italy), Pietro Scrivano, Andrea Corsonello, Giuseppe Francesco Rago, Francesco Cesario, Carlo Lorenzo Manfredi, Achille Gaudio, Enrico Scarpelli, Angelo Barbato

PA407

Pneumomediastinum in non-intensive care unit hospitalized patients with COVID-19 pneumonia

Moises Muley (Rome, Italy), Panaiotis Finamore, Claudio Pedone, Domenico Paolo Emanuele Margiotta, Emanuele Gilardi, Federica Sambuco, Antonio De Vincentis, Umberto Vespaiani Gentilucci, Francesco Travaglino, Raffaele Antonelli Incalzi

PA408

COVID-19 associated pulmonary cavitary lesions - A single center observational study

Sheetal Chaurasia (Bangalore (Karnataka), India), Rajesh Mohan Shetty, Raghu Murthy, Saurav Chowdhury

PA409

Hospitalised patients with COVID-19: the impact of nosocomial infections

Lucia Méndez González (Santa Maria da Feira, Portugal), Jorge Ferreira, Cátia Caneiras

PA410

Post-COVID-19 patients develop lung fibrotic-like changes: is there a role for IL-1α and TGF-β?

Claudio Candi (Naples, Italy), Chiara Colarussu, Antonio Molino, Michela Terlizzi, Alessandro Saglia, Eliana Sferra, Marta Coppola, Lorena Gallotti, Alessandro Vatrella, Aldo Pinto, Rosalinda Sorrentino

PA411

CoV-Sym: The development of a psychometrically validated patient reported outcome measure for COVID-19

Caitlin Lythgoe (Liverpool, United Kingdom), Anna Rowe, Olalekan Lee Aiyegbusi, Lucy Chambers, Frances Sherratt, Joseph Wood, Bridget Young, Dan Wootton

PA412

Long term clinical and lung function test assessment in critically ill covid-19 patients: a 1-year follow-up

Leonardo Rovere (Milano, Italy), Giovanni Fumagalli, Elena Magni, Eliana Scoditti, Lisa Pancini, Paolo Gaboardi, Paolo Tarsia

PA413

Quality of life and dyspnoea grade after a severe SARS-CoV-2 pneumonia: a 12-month follow-up.

Lidia Zamudio Domingo (BANYOLES, Spain), Lidia Perendreu Busquets, Saioa Eizaguirre Anton, Marc Bonnin Vilaplana, Gladis Sabater Talaverano, Marina Belén Lescano Ponce, Ramon Orriols Martinez

PA414

The impact of COVID-19 on Tuberculosis diagnosis

Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Luis Mateus, Maria Cavaco, André Nunes, Carina Silvestre, Natália André, António Domingos

PA415

Trend of knowledge and attitude toward COVID-19 during 1st & 2nd wave of pandemic in pulmonary tuberculosis patients.

Ankita Mandal (Lucknow, India), Ajay Kumar Verma, Surya Kant, Jyoti Bajpai, Sujita Kar

PA416


Mariana Ramos Martins (Faro, Portugal), Lídia Carvalho, Teresa Carvalho, Isabel Gomes

PA417

Factors associated with the clinical profile and outcome of SARS-COV-2 (COVID-19) patients co-infected with tuberculosis in a tertiary hospital: a retrospective study

Jelena Louise Arreza (Cebu City, Cebu Province, Philippines), Ma. Philina Villamor

PA418

The COVID19 pandemic may lead to the activation of the forgotten tuberculosis

Miroslav Ilić (Sremska Kamena (Vojvodina), Republic of Serbia), Miloš Cveticović, Dragica Kovačević, Dejan Živanović, Dragica Kovačević

PA419

Factors associated with the clinical profile and outcome of SARS-COV-2 (COVID-19) patients co-infected with tuberculosis in a tertiary hospital: a retrospective study

Jelena Louise Arreza (Cebu City, Cebu Province, Philippines), Ma. Philina Villamor

PA420

The COVID19 pandemic may lead to the activation of the forgotten tuberculosis

Miroslav Ilić (Sremska Kamena (Vojvodina), Republic of Serbia), Miloš Cveticović, Dragica Kovačević, Darinka Kukavica, Nevena Savić, Ana Milenković, Jovan Javorac

PA421

Tuberculosis related lethality structure in Kharkiv, Ukraine: impact of COVID 19

Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Tetiana Syenko, Oleh Stepanov, Oleksandr Zinenko, Tetiana Liadova, Olha Volobuieva

PA422
<table>
<thead>
<tr>
<th>PA423</th>
<th>Increased long-term mortality among tuberculosis and influenza cases compared to patients with Salmonella infection</th>
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<tbody>
<tr>
<td>Anthony Byrne (Sydney (NSW), Australia), Kenneth Ng, Jennifer Pett, Ellen Donnan, Javier Haurat, Ben Marais</td>
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<tr>
<th>PA424</th>
<th>COVID19 and tuberculosis Co-infection: clinical, biological and radiological characteristics</th>
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<tr>
<td>Abir Hedhli Ep Cherni (tunis, Tunisia), arbia chaieb, Abir Hedhli, Yassine Ouahchi, Toujeni Sonia, Cheikhrouhou Sana, Merai Samira, Mjid Mariem, Dhaibi Bessma</td>
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<tr>
<th>PA425</th>
<th>The role of biological monitoring in raising the suspicion of nosocomial infection with SARS CoV 2 in patients with tuberculosis</th>
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<tr>
<td>Ionut Valentin Stanciu (Constanta, Romania), Zamfir Viorica, Arghir Ioan Anton, Dantes Elena</td>
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<tr>
<th>PA426</th>
<th>Influence of COVID-19 pandemic on the main epidemiological data of TB in Azerbaijan</th>
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<tr>
<td>Gulzar Aliyeva (Baku, Azerbaijan), Agigat Gadirova</td>
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<tr>
<th>PA427</th>
<th>Intrathoracic aspergillomas-study conducted in an area with high endemic tuberculosis</th>
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<tr>
<td>Denisa-Gabriela Andrei (Constanta, Romania), Elena Dantes, Simona Lupsa, Viorica Zamfir, Angelica Potamian, Oana Arghir</td>
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**TP-23 in thematic poster area**

**Session 81 08:30 - 09:30**

**Thematic poster: Pleural and thymic malignancies: from bench to bedside**

**Disease(s):** Thoracic oncology

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

**Chairs:** Kevin Blyth (Glasgow (Glasgow), United Kingdom), Maria Joana Pereira Catarata (Porto, Portugal)

<table>
<thead>
<tr>
<th>PA428</th>
<th>Using InfraRed (IR) Spectroscopy to differentiate between Mesothelioma (Meso), Other Malignant &amp; Non-Malignant pleural effusions</th>
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<tbody>
<tr>
<td>Lauren Fox (Southampton, United Kingdom), Sharon Glaysher, Alexander Hicks, Michael Ball, Rachelle Asciak, Thomas Brown, Leon D'Cruz, Anoop Chauhan</td>
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<tr>
<th>PA429</th>
<th>BAP1 loss in the diagnosis of malignant mesothelioma; review of a regional mesothelioma MDT</th>
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<tr>
<td>Helen Mcdill (Bristol (Avon), United Kingdom), Alexandra Dipper, Nidhi Bhatt, Amelia Clive, Nick Maskell, Anna Bibby</td>
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<tr>
<th>PA430</th>
<th>The Management of Thymoma - a retrospective cohort analysis</th>
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<tr>
<td>Richard Cooper (Malpas, United Kingdom), Mohammed Adil, Muhammad Ganaie</td>
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<tr>
<th>PA431</th>
<th>Diagnostic value of the cancer ratio in pleural effusion – a retrospective study</th>
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<tr>
<td>Maria João Cavaco (Coimbra, Portugal), Luis Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Joana Ferra, Daniel Duarte, Carla Cardoso, Paula Raimundo, António Domingos</td>
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<tr>
<th>PA432</th>
<th>Has the impact of the COVID-19 pandemic on uptake and usage of indwelling pleural catheters reduced its cost-effectiveness?</th>
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<tr>
<td>Dana Li (London, United Kingdom), Sarah Johnstone, Padmavathi Parthasarathy, Rajini Sudhir, Muhammad Tufail, Rakesh Panchal</td>
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<tr>
<th>PA433</th>
<th>Malignant Pleural Effusion and Auto-pleurodesis: Biomarkers, Predictors and Survival</th>
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<tbody>
<tr>
<td>Dinesh Addala (Oxford, United Kingdom), Yiwen Soo, Anand Sundaralingam, Eihab Bedawi, Beenish Iqbal, Najib Rahman</td>
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<tr>
<th>PA434</th>
<th>Molecular identification of the primary cilium BBSome complex in pleural mesothelial cells</th>
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<tr>
<td>Sotiros Zarogiannis (Larisa, Greece), Erasmia Rouka, Rajesh Jagirdar, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinos Gourgoulianis</td>
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<tr>
<th>PA435</th>
<th>Human malignant pleural mesothelioma derived pleura fluid induces mesenchymal transition of benign pleural mesothelial cells</th>
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<tr>
<td>Sotiros Zarogiannis (Larisa, Greece), Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinos Gourgoulianis</td>
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<tr>
<th>PA436</th>
<th>Diagnosis and management of thymomas in the Covid-19 era</th>
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<tr>
<td>Chung-Mei Maggie Cheung (London, United Kingdom), Raquel D'Espiney, Ermanno Capuano, Bernard Yung</td>
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<tr>
<th>PA437</th>
<th>Mortality among hospitalized patients with pleural effusions.</th>
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<tr>
<td>ELEFHERIOS MARKATIS (PLATITERA, Greece), Garifallia Perlepe, Andreas Afthinos, Konstantinos Pagkratis, Charalampos Varsamas, Eleftheria Chaini, Ilias C. Papanikolaou, Konstantinos I Gourgoulianis</td>
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MicroRNAs shuttled by extracellular vesicles within pleural fluids promote lung cancer cell proliferation
Elsabetta Pace (Palermo (PA), Italy), Simona Taverna, Giuseppe Cammarata, Anna Masucci, Ilaria Giusti, Vincenza Dolo

Changes in the primary diagnosis of malignant pleural effusion
Oğuz Karcioğlu (Ankara, Turkey), Fatih Tekin, Sevgen Önder, Ziya Toros Selçuk

An Evaluation of optimal pleural fluid volume required for accurate cytological diagnosis of malignancy
Nafisa Hussain (Watford, United Kingdom), Alessio Navarra, Anthony Maddox, Rahul Mogal

Molecular profiling in Pleural Biopsies
Anand Sundaralingam (Oxford, United Kingdom), Avinash Aujayeb, Baki Akca, Clare Tiedeman, Vineeth George, Michael Carling, Jennifer Brown, Radhika Banka, Dinesh Addala, Eihab O Bedawi, Robert H Hallifax, Beenish Iqbal, Popy Denniston, Maria T Tsakok, Nikolaos Kanellakis, Florian Vafai-Tabrizi, Michael Bergmann, Georg-Christian Funk, Rachel Benamore, John M Wrightson, Najib M Rahman

Thematic poster: Interstitial lung diseases diagnosis in the COVID-19 era: new tools for new challenges

Phenotypes of post covid interstitial lung disease; clinical, radiological, and pathological correlations.
Leonardo Gori (Florence, Italy), Claudia Ravaglia, Valentina Luzzi, Luca Ciani, Leonardo Giuntoli, Giulia Biadene, Sonia Bambina, Martina Marinato, Alessandra Dubini, Diletta Cozzi, Edoardo Cavigli, Camilla Comin, Valeria Pasini, Silvia Puglisi, Alberto Cavazza, Venerino Poletti, Michele Spinicci, Alessandro Bartoloni, Anna Peired, Edoardo Berillo, Cosimo Nardi, Elisabetta Rossì, Federico Lavorini, Sara Tomassetti

Post-COVID interstitial lung disease in symptomatic patients after hospital discharge
Lorinc Polivka (Űröm, Hungary), Eniko Barczi, Tamás Nagy, Gabor Horvath, Aniko Bohacs, Veronika Muller

COVID-19 in interstitial lung diseases: are fibrotic ILDs associated with worse outcomes?
Maria Carolina Alves Valente (Santo Tirso, Portugal), Mariana Serino, Beatriz Martins, Mariana Martins, Inês Carvalho, Miguel Barbosa, Marina Alves, Cataria Cascais, André Terras Alexandre, Natália Melo, Patricia Caetano Mota, António Morais, Hél…

Non-Detection of Post Covid Pulmonary Fibrosis (PCPF) through HRCT and PFT but possible through Transbronchial Lung Biopsy
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Shivkant Agarwal, Charul Dabral, Manish Mittal, Many Narain Tyagi

Post-COVID-19 Interstitial Lung Disease: a new entity, what do we deal with?
AYCAN YUKSEL (Ankara, Turkey), Dilek Karadoğan, Nur Hürsoy, Gökhan Telatar, Neslihan Köse, Feride Marm, İlknur Kaya, Aslıhan Banu Er, Merve Erçelik, Demet Polat, Merve Yumrukuz, Ökçe Gültêkin, Ceren İlgar, Selin Çakmakç, Bilge Yılmaz Kara, Neslihan Ozcêl, İnci Selimoğlu, Küb…

Methylprednisolone in the treatment of post-COVID-19 Interstitial Lung Disease (STERCOV-ILD)
AYCAN YUKSEL (Ankara, Turkey), Dilek Karadoğan, Nur Hürsoy, Gökhan Telatar, Neslihan Köse, Feride Marm, İlknur Kaya, Aslıhan Banu Er, Merve Erçelik, Demet Polat, Merve Yumrukuz, Ökçe Gültêkin, Selin Çakmakç, Bilge Yılmaz Kara, Neslihan Ozcêl, İnci Selimoğlu, Küb…

Evolution of diffusion capacity in interstitial lung disease associated with rheumatoid arthritis

Persistent Pneumonitis Post-COVID-19: description and risk factors
Sandra Cuerpo Cardeños (Barcelona, Spain), Fernanda Hernandez, Mariana Benegas, Noel Francesqui, Alejandra Lopez, Rosa Faner, Nestor Soler, Sergio Prieto, Alexandru Vlaga, Juan Albert Barbera, Marcelo Sanchez, Joan Ramón Badia, Oriol Sibila, Alvar Agusti, Jacobo Sellars, Inés Cob, Anaí Sanchez, Veronica Torres, Adelaída Salazar, Ana Muñoz, Luz Bravo, Estibaliz Ruiz, María Molina, Alex Soriano, Judith García

Evaluation of pulmonary function in post-COVID-19 patients
Vuk Pejičić (), Tatjana Pejičić, Marija Topalović, Borislav Božanić, Aleksandra Ignjatović, Desa Nastasijević Borovac
| PA451 | Bleomycin lung toxicity: a retrospective analysis of an old culprit. | Diana Sofia Moreira Sousa (Santo Tirso, Portugal), Margarida Afonso, Salete Valente |
| PA452 | Interstitial lung disease in children associated with biological autoimmunity, analysis of a French monocentric retrospective cohort: towards IPAF in children? | Alice Hadchouel-Duvergé (Paris, France), Laura Aoust, Brigitte Bader-Meunier, Christine Bodemer |
| PA453 | Effects of RXC007, a highly potent and selective ROCK2 inhibitor, in ex-vivo and in vivo models of pulmonary fibrosis. | Adriana Gambardella (Macclesfield, United Kingdom), Nicolas E. S. Guisot, Peter R. Bunyard, Emily Offer |
| PA454 | Diagnostic Performance of the Chest Interstitial Lung Disease Patient Questionnaire | Tal Perluk (Givatim, Israel), Inbal Friedman Regev, Ophir Freund, Eyal Kleinheindler, Sharona Ben-Ami, Amir Bar-Shai, Avraham Unterman |
| PA455 | A retrospective study exploring GAP index as a predictor of mortality in patients with Combined Pulmonary Fibrosis and Emphysema | Hana Alsomali (Newcastle upon Tyne, United Kingdom) |
| PA456 | Early detection of interstitial lung disease using AI-powered spirometry | Marko Topalovic (Kessel-lo, Belgium), Tomas Coenegrachts, Seppe Van Steenbergen, Armin Halilovic, Julie Maes, Laurens De Sadeleer, Wim Janssens |
| PA457 | Clusters of comorbidities in chronic hypersensitivity pneumonitis | Thomas Skovhus Prior (Egå, Denmark), Julia Wälscher, Benjamin Gross, Elisabeth Bendstrup, Michael Kreuter |
| PA458 | Ultrasound as a potential tool to detect interstitial lung disease in the daily clinical setting of patients with rheumatoid arthritis | Marwin Gutierrez (Mexico City, Mexico), Santiago Ruta, Denise Clavijo-Cornejo, Gabriela Fuentes-Moreno, Samuel Reyes-Long, Chiara Bertolazzi |
| PA459 | Cudetaxestat, a differentiated phase 2-ready investigational treatment for idiopathic pulmonary fibrosis | Bassem Elmankabadi (San Francisco, United States), Prabha Ibrahim, Carol Wong, Ravi Rajagopalan, Xiang Xu, Walter Yu |

**TP-25 in thematic poster area**

**Session 83**

08:30 - 09:30

**Thematic poster: Risk assessment in pulmonary arterial hypertension**

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

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

**Chairs:** Athénaïs Boucly (Le Kremlin Bicêtre, France), Vasile Foris (Graz, Austria)

<p>| PA460 | Validation of EmPHasis-10 health-related quality of life assessment tool in Canadian patients with pulmonary hypertension. | Mithum Kularatne (Calgary, Canada), Ainslie McBride, Doug Helmersen, Naushad Hirani, Mitesh Thakrar, Jonathan Liu, Lea Harper, Hina Iqbal, Aruba Naser, Rhea Varughese, Jason Weatherald, Jason Weatherald |
| PA461 | Narrative medicine to investigate patients’ and caregivers’ experience of pulmonary arterial hypertension: the inspectio study | Fabiana Baldi (Rome, Italy), Fabiana Baldi, Laura Scelsi, Pietro Ameri, Gian Piero Perna, Carlo D’Agostino, Piergiuseppe Agostoni, Natale Daniele Brunetti, Lorenzo Dagna, Giuseppe Galgano, Antonietta Cappuccio, Alessandra Fiorencis, Francesco Rucci, Roberta Termimi, Stefano De Santis |
| PA462 | Correlation of emPHasis-10 with clinical tests: insights from the ASPIRE registry | Samer Alabed (Sheffield, United Kingdom), Krit Dwivedi, Charlotte Durrington, Faisal Alandejani, Robert Lewis, Charlie Elliot, Athanasios Charalampopoulos, Roger Thompson, Abdul Hameed, Alexander Rothman, Iain Armstrong, Robin Condliffe, Andy J Swift, David G Kiely |
| PA463 | Health disparities and differences in health-care-utilization in patients with pulmonary arterial hypertension | Da-Hee Park (Hanover, Germany), Tanja Meltendorf, Kai G. Kahl, Jan C. Kamp, Manuel J. Richter, Marius M. Hoepner, Karen M. Olsson, Jan Fuge |
| PA464 | Prognostic importance of centrilobular ground glass changes in patients with Idiopathic Pulmonary Arterial Hypertension | Krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Robert Lewis, Michail Mamalakis, Samer Alabed, Smitha Rajaram, Catherine Hill, David Kiely, Jim Wild, Andrew Swift, Robin Condliffe |</p>
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<thead>
<tr>
<th>PA465</th>
<th>The significance of normal lung regions on quantitative CT in pulmonary hypertension</th>
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<tbody>
<tr>
<td>Tadasu Okaya (Tokyo, Japan), Ayako Shigeta, Nobuhiro Tanabe, Akira Nishiyama, Hajime Yokota, Toshihiko Sugiuara, Seiichiro Sakao, Koichiro Tatsunami, Takuji Suzuki</td>
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<tr>
<th>PA466</th>
<th>Different exercise tests with different risk assessment in PAH patients</th>
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<tr>
<td>Amaya Martínez Meñaca (Santander (Cantabria), Spain), Raquel Luna Lopez, Víctor Manuel Mora Cuesta, Teresa Segura De La Cal, Alejandro Cruz Utrilla, Pilar Alonso Lecue, Jose Manuel Cifrián Martínez, Pilar Escribano Subías</td>
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<tr>
<th>PA467</th>
<th>Limitations of functional class for predicting severity in pulmonary hypertension in Colombia</th>
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<tbody>
<tr>
<td>Manuel Conrado Pacheco Gallego (Pereira (Risaralda), Colombia), Rafael Conde, Alejandro Londoño, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramírez-Sarmiento, Mauricio Orozco-Levi</td>
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<tr>
<th>PA468</th>
<th>COMPERA score revised: better risk estimation to better tailor therapies in precapillary hypertension.</th>
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<tr>
<td>Joana Brito (Lisbon, Portugal), Pedro Alves Da Silva, Sara Couto Pereira, Beatriz Garcia, Joana Rigueira, Tatiana Guimarães, Ana G Almeida, Fausto J Pinto, Rui Placido</td>
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<tr>
<th>PA469</th>
<th>Utility of the six minute walking test (6MWT) in the follow-up of patients with pulmonary arterial hypertension (PAH), is there a correlation between the distance walked and oxygen consumption?</th>
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<td>Isabel Muñoz Ramírez (Seville, Spain), Alfonso Marín Andreu, Raquel De Andrés David, Aureliano Ais Daza, María Morales González, Aurelio Arnedillo Muñoz</td>
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<th>PA470</th>
<th>CMR assessed maladaptive right ventricular remodelling predicts treatment failure in pulmonary arterial hypertension</th>
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<tr>
<td>Ze Ming Goh (Leeds, United Kingdom), Nithin Balasubramanian, Samer Alabed, Krit Dwivedi, Yousef Shahin, Alexander Mk Rothman, Pankaj Garg, Allan Lawrie, David Capener, A.A. Roger Thompson, Faisal Alandejani, James M Wild, Christopher S Johns, Robert A Lewis, Rebecca Gosling, Michael Sharkey, Robin Condliffe, David G Kiely, Andrew J Swift</td>
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<th>PA471</th>
<th>Prognostic impact of hypochromic erythrocytes in patients with pulmonary arterial hypertension</th>
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<td>Christina Eichstaedt (Heidelberg, Germany), Vivienne Theobald, Panagiota Xanthoulis, Nicola Benjamin, Alberto Marra, Anna D’Agostino, Benjamin Egenlauf, Memoona Shaukat, Cao Ding, Antonio Cittadini, Eduardo Bossone, Maria Kögler, Ekkehard Grüning, Martina Muckenthaler</td>
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<th>PA472</th>
<th>Risk stratification approaches perform differently in SSc-associated PAH in EUSTAR</th>
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<tr>
<td>Anna Maria Hoffmann-Vold (Oslo, Norway), Hilde Jenssen Bjørkedø, Cosimo Bruni, Patricia E. Carreira, Paolo Airò, Carmen-Pilar Simeón-Aznar, Marie-Elise Truchetet, Alessandro Giollo, Alexandra Balbir-Gurman, Mickaël Martin, Christopher Denton, Armando Gabrielli, Håvard Fretheim, Imon Barua, Helle Bitter, Øyvind Midtvedt, Kaspar Broch, Arne Kristian Andreassen, Yoshiya Tanaka, Gabriela Riemenkasten, Ulf Müller-Ladner, Marco Matucci Cerinic, Ivan Castellvi, Elise Siegert, Eric Hachulla, Oliver Distler</td>
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<tr>
<th>PA473</th>
<th>Pulmonary Arterial Hypertension risk assessment model using Bayesian Network analysis</th>
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<tr>
<td>Charles Fauvel (Columbus, United States), Zila Liu, Shili Lin, Priscilla Correa-Jaque, Amy Webb, Rebecca Vanderpool, Raymond Benza</td>
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<tr>
<th>PA474</th>
<th>Oxygenated hemoglobin as prognostic marker among patients with systemic sclerosis screened for pulmonary hypertension</th>
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<tr>
<td>Christina Eichstaedt (Heidelberg, Germany), Ojan Gordjani, Panagiota Xanthoulis, Nicola Benjamín, Franziska Trudzinski, Benjamin Egenlauf, Satenik Harutyunova, Alberto Marra, Nicklas Milde, Christian Nagel, Norbert Blank, Hanns-Martin Lorenz, Ekkehard Grüning, Martina Muckenthaler</td>
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<th>PA475</th>
<th>Prediction of peak oxygen uptake from 6-minute walk test in pulmonary hypertension</th>
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<tr>
<td>Simon Raphael Schneider (Zürich, Switzerland), Paula Appenzeller, Fiorenza Gautschi, Julian Müller, Mona Lichtblau, Stéphanie Saxer, Esther Irene Schwarz, Silvia Ulrich</td>
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<tr>
<th>PA476</th>
<th>Ventilatory limitation during cardiopulmonary exercise testing predicts survival in patients with pulmonary arterial hypertension with Eisenmenger physiology</th>
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<tr>
<td>Chinthaka Samaranayake (London, United Kingdom), Ruth Meniven, Aleksander Kempny, Laura C Price, Carl Harries, Michael Gatzoulis, Konstantinos Dimopoulos, Jón Wort, Colm Mccabe</td>
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<th>PA477</th>
<th>D-Dimer predicts mortality in a real-life cohort of patients with indication for right heart catheterization</th>
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<td>Vasile Foris (Graz, Austria), Florian Prüller, Gabor Kovacs, Alexander Avian, Philipp Douschan, Teresa Sassmann, Katarina Zeder, Markus Herrmann, Horst Olschewski</td>
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<th>PA478</th>
<th>Lung transplantation in pulmonary arterial hypertension (PAH): survival analysis according to PAH risk</th>
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<tr>
<td>Marta Zapata Ortega (Barcelona, Spain), Eva Revilla López, Berta Sáez Gimenez, Cristina Berastegui García, Marta Arjona Peris, Victor Monforte Torres, Carlos Bravo Masgoret, Enric Domingo Ribas, Manuel López Meseguer</td>
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<th>PA479</th>
<th>Elevated alveolar nitric oxide in precapillary pulmonary hypertension decreases after therapy</th>
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<tr>
<td>Balázs Csoma (Budapest, Hungary), Györgyi Csósza, Gergő Štúcs, Veronika Müller, Kristóf Karlócaï, Zsófia Lázár</td>
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</table>
Thematic poster: The many faces of interventional bronchoscopy

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

**Method(s):** Endoscopy and interventional pulmonology, Imaging, Surgery, Palliative care, Pulmonary function testing

**Chairs:** Prashant Nemichand Chhajed (Mumbai, India), Peter I. Bonta (Amsterdam, Netherlands)

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**PA480**  
Cryobiopsy in the diagnosis of peripheral lung lesion  
Vytautas Ankdavicius (Kaunas, Lithuania), Skaidrius Miliauskas, Gediminas Vasiliauskas, Marius Zemaitis

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**PA481**  
Outcomes of Endoscopic Tracheobronchial Brachytherapy: Retrospective Cohort Analysis from a High-Volume Cancer Centre  
Stefano Maria Donghi (MILANO (MI), Italy), Elena Prisciandaro, Luca Bertolaccini, Niccolò Filippi, Andrea Vavassori, Lorenzo Spaggiari, Juliana Guizar

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**PA482**  
Transbronchial lung cryobiopsy in sarcoidosis – is single biopsy enough?  
Martyna Ciesielska (Jawor, Poland), Maciej Gnass, Anna Filarecka, Jerzy Soja, Damian Czyżewski, Lucyna Rudnicka, Wojciech Zającki, Artur Bartczak, Adam Ćmiel, Agnieszka Pałuch-Stachowicz, Piotr Gniady, Artur Szubowski

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**PA483**  
Efficacy of transbronchial lung cryobiopsy with radial EBUS guidance in interstitial lung diseases – 5 years experience  
Martyna Ciesielska (Jawor, Poland), Maciej Gnass, Jerz Soja, Damian Czyżewski, Wojciech Zającki, Lucyna Rudnicka, Artur Bartczak, Magdalena Zycińska, Piotr Gniady, Małgorzata Szołkowska, Adam Ćmiel, Artur Szubowski

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**PA484**  
Impact of transbronchial lung cryobiopsy on lung function in patients with interstitial lung diseases  
Sabrina Martinello (Melito di Porto Salvo (RC), Italy), Claudia Ravaglia, Silvia Puglisi, Martinello Sabrina, Vancheri Ada, Oldani Stefano, Picciucchi Sara, Poletti Venerino

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**PA485**  
Safety and Efficacy of Transbronchial Cryo Lung Biopsy vs Forceps Biopsy in diagnosis of Fibrotic Lung Disease - The Heat is On  
Uman G. Shah (Vadodara (Gujarat), India)

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**PA486**  
Complications in the use of transbronchial cryobiopsy in non-interstitial lung diseases  
Diego Alexis Garcia Estudillo (mexico, Mexico), Olivia Sanchez Cabral, Cira Santillán Diaz, Paula Karina Olvera Llera

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**PA487**  
ONE-SESSION BILATERAL WHOLE LUNG LAVAGE WITH ASSISTANCE BY EXTRACORPOREAL Membrane Oxygenation: A SAFE AND EFFECTIVE TREATMENT FOR PULMONARY ALVEOLAR PROTEINOSIS.  
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Paola Benedetti, Javier De Miguel Diez, Sergio Suarez Escudero, Virginia Parra León, Luis Puente Maestu, José Javier García López

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**PA488**  
Airway Stents: an important paradigm in the management of airway stenosis  
Abhinav Singla (Essen, Germany), Johannes Wienker, Erik Büscher, Rüdiger Karpf-Wissel, Faustina Funke, Kaid Darwiche

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**PA489**  
Management of benign tracheal stenosis: the endoscopic approach  
Alia Ezzouaoui (Tunis, Tunisia), Sarra Maazaoui, Amany Touil, Tasnim Znagui, Mariem Chaabane, Sonia Habibeche, Hajer Racil, Nawel Chaouch

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**PA490**  
Outcome and adverse events of endoscopic lung volume reduction with valves at 6- and 12-month follow-up: Results from the Lung Emphysema Registry (LE-R) in Germany  
Thomas Sgarbossa (Berlin, Germany), Jacopo Saccomanno, Pavлина Lenga, Jens-Carsten Rückert, Franz Stanzel, Stefan Welter, Christian Graf, Joachim Pfannschmidt, Bernd Schmidt, Paul Schneider, Stephan Eisenmann, Marcus Krüger, Joachim Ficker, Dietmar Kraus, Angelique Holland, Andreas Kirschbaum, Andreas Gebhardt, Sven Gläser, Stephan Eggeling, Stefan Andreas, Marc Hinterhaner, Karl-Josef Franke, Ulrich Laskowski, Ralf-Harto Hübner

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**PA491**  
Outcome of 2nd lung volume reduction therapy with one-way valves after initial treatment failure in patients from the national lung emphysema registry (LE-R) in Germany  
Jacopo Saccomanno (Berlin, Germany), Thomas Sgarbossa, Pavлина Lenga, Jens-Carsten Rückert, Franz Stanzel, Stefan Welter, Christian Graf, Joachim Pfannschmidt, Bernd Schmidt, Paul Schneider, Stephan Eisenmann, Marcus Krüger, Joachim H. Ficker, Dietmar Kraus, Angelique Holland, Andreas Kirschbaum, Andreas Gebhardt, Sven Gläser, Stephan Eggeling, Stefan Andreas, Marc Hinterhaner, Karl-Josef Franke, Ulrich Laskowski, Ralf-Harto Hübner

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**PA492**  
Predictors of survival in COPD: does improvement affect survival?  
Sharyn A. Roodenburg (Groningen, Netherlands), Marlies Van Dijk, Karin Klooster, T. David Koster, Dirk-Jan Slebos, Jorine E. Hartman
Results from bronchoscopic thermal vapor for lung volume reduction
Cristina Luna Pardo (Valencia, Spain), Raquel Martinez Tomás, Andrés Briones Gómez, Enrique Cases Viedma

Perfusion measured with HRCT-approximated perfusion is comparable to SPECT/CT for patients with severe COPD
T. David Koster (GRONINGEN, Netherlands), Karin Klooster, Marlies Van Dijk, Aafke Van Erp-Zeilstra, Annick Willems Van Beveren, Jan Pruim, Jean-Paul Charbonnier, Dirk-Jan Slebos

Long term follow-up after endobronchial valve treatment for emphysema
Jorine E. Hartman (Groningen, Netherlands), Karin Klooster, T. David Koster, Marlies Van Dijk, Dirk-Jan Slebos

Instant pathology of transbronchial cryobiopsies (TBCB) for sample adequacy in ILD patients
Kirsten Kalverda (Amsterdam, Netherlands), Laura Van Huizen, Venerino Poletti, Peter Bonta, Johannes Daniels, Marloes Groot, Jouke Annema

Bronchial thermoplasty; its long-term efficacy in severe asthma
Pieta C Wijsman (Amsterdam, Netherlands), Annika W Goorsenberg, Julia N D’Hooghe, Nick H Ten Hacken, Els J Weersink, Elisabeth H Bel, Pallav L Shah, Jouke T Annema, Peter I Bonta

Endoscopic dilatation of idiopathic subglottic stenosis: effects on lung function and recurrence dynamics
Louis-Vincent Morin-Thibault (Québec (QC), Canada), Gerrina Ruiter, Peter I. Bonta, Erik-H-F-M Van Der Heijden, Johannes-M-A. Daniels

Alfredo Marín Muñiz (Castelldefels, Spain), Marta Díez Ferrer, Pere Trias Sabrià, Lidia Méndez Mangas, Marta Plana Pes, Francisco Rivas Boyague, Jordi Tornero Salto, Salud Santos Pérez, Rosa López Lisbona

TP-3 in thematic poster area Session 85 08:30 – 09:30

Thematic poster: Asthma and COVID-19 management in primary care

Disease(s): Airway diseases
Method(s): Public health General respiratory patient care Epidemiology
Chairs: Rachel Jordan (Birmingham (West Midlands), United Kingdom), Cláudia Vicente (Coimbra, Portugal)

Shifting asthma management with Asthma Right Care communication tools
Maria Mar Martinez Vázquez (Bilbao (Bizkaia), Spain)

Identifying gaps and redesigning asthma care pathway in Primary Care with multidisciplinary teams
Maria Mar Martinez Vázquez (Bilbao (Bizkaia), Spain), Jaime González Rey, Sara Nuñez Palomo, Miguel Domínguez Santaella, Pere J Simonet Aineto, Javier Plaza Zamora, Miguel Román Rodríguez, Juan Enrique Cimas Hernando, Lucía Regadera Anechita, Francisco Fernández-Conde Jordana De Pozas, Paula Chaparro Briones

A cluster-randomised control trial of a paediatric asthma pathway in primary care.
Andrew Cave (Edmonton (AB), Canada), Melissa Potestio, Heather Sharpe, David Johnson

Supporting asthma self-management behavioural change with a mobile application: a feasibility study
Ee Ming Khoo (Kuala Lumpur, Malaysia), Ping Yein Lee, Hani Salim, Ai Theng Cheong, Sazlina Shariff Ghazali, Noor Harzana Harun, Bee Kiu Ho, Salbiah Mohamad Isa, Norita Hussein, Nik Sherina Haidi Hanafi, Hilary Pinnock, Respire On Behalf Of The Respire Collaborators

Asthma control and unscheduled care during the Hajj among Malaysian Hajj pilgrims: a descriptive observational study.
Ee Ming Khoo (Kuala Lumpur, Malaysia), Rizawati Ramli, Nik Sherina Haidi Hanafi, Norita Hussein, Ping Yein Lee, Ai Theng Cheong, Sazlina Shariff Ghazali, Ahmad Ihsan Abu Bakar, Azah Abdul Samad, Suhazeli Abdullah, Hilary Pinnock, Aziz Sheikh

Association of gastroesophageal reflux disease with asthma control and quality of life, a study from low incom country.
Nousheen Iqbal, Atiqa Amirali, Maria Ali Khan, Muhammad Irfan

Persistent Symptoms Three Months after Clinical Recovery from COVID-19
Amir Jarjoui (Jerusalem, Israel), George Kalak, Gabriel Izbicki, Ariel Rokach, Abraham Bohadana, Pascal Wild, Nader Abdelrahman, Nissim Arish, Chen Chen-Shuai, Noa Amiad

Long COVID in relation to severity of acute COVID-19
Tasnim Znegui (Borj Cerdia, Tunisia), Racil Hajer, Maaouzi Sarra, Mariem Friha, Amany Touil, Sonia Habibeche, Chaouch Nawel
PA508  
**Respiratory healthcare professionals' views on long-term recommendations of interventions to prevent acute respiratory illnesses after the COVID-19 pandemic**  
Karin Yaacoby-Bianu (Haifa, Israel), Galit Livnat, James D. Chalmers, Michal Shteinberg

PA509  
**Benefits of early cineole administration during common cold: an exploratory clinical trial**  
Peter Kardos (Frankfurt am Main, Germany), Ludger Klimek, Jürgen Palm, Kim Goldenstein, Johannes Stöckl, Andreas Michalsen

PA510  
**What do medical professionals really think about vaccination?**  
Oleksandr Fesenko (Slobozhanske, Ukraine), Olena Myronenko, Nataliia Habshydze, Kseniia Bielosludtseva

PA511  
**Developing a theoretically-informed education programme within the context of a complex implementation strategy in UK primary care: an exemplar from the IMP2ART trial**  
Kirstie McClatchey (Edinburgh, United Kingdom), Viv Marsh, Liz Steed, Steve Holmes, Stephanie J C Taylor, Sharon Wiener-Ogilvie, Julia Neal, Rhiann Last, Ann Saxon, Hilary Pinnock

PA512  
**Impact of COVID-19 pandemic on recommended vaccine uptake in a single-practice primary care COPD cohort in the UK**  
Mukesh Singh (Sutton Coldfield (West Midlands), United Kingdom), Ketan Singh

PA513  
**Implementation of meaningful stakeholder engagement in community-based research in rural India during COVID-19 pandemic**  
Rashmi Chabukswar (Pune, India), Dhiraj Agarwal, Himangi Lubree, Tracy Jackson, Genevieve Fernandes, Sanjay Juvekar

PA514  
**Understanding physicians’ and patients’ perspectives on asthma management**  
Michelle Tan (London, United Kingdom), Aine Kyle, Kelly Kueh

PA515  
**Patient-reported barriers to accepting a technological adherence package in the MAGNIFY trial.**  
Andrew Dickens (Cambridge, United Kingdom), David Halpin, Victoria Carter, Derek Skinner, Kai Beeth, James Chalmers, Allan Clark, Nasir Hannan, Alan Kaplan, Konstantinos Kostikas, Hilary Pinnock, Nicolas Roche, Omar Usmani, Job F.M. Van Boven, Paul Mastoridis, Karen Mezzi, Steve Davis, David Price

PA516  
**Development of a patient-centred asthma review template to improve self-management in UK primary care**  
Kirstie McClatchey (Edinburgh, United Kingdom), Liz Steed, Aimee Sheldon, Francis Appiagyei, Stephanie Taylor, David Price, Hilary Pinnock

PA517  
**Randomised trial evaluating the effect of a digital action plan (web app) versus written action plan for the management of asthma exacerbations of children and adults**  
Nicole Beydon (Paris, France), Camille Taille, Harriet Corvol, Judith Valcke-Brossollet, Jean-Jacques Portal, Laurent Plantier, Gilles Mangiapani, Caroline Perisson, Guillaume Aubertin, Alice Hadchouel-Duvergé, Guilllaume Briand, Laurent Guilleminault, Catherine Neukirch, Pierrick Cros, Corinne Appere De Vecchi, Bruno Mahut, Eric Vicaux, Christophe Delclaux

PA518  
**Evolution of web-based training videos provided by the German Respiratory League for correct inhalation technique**  
Maximilian Wollsching-Strobel (Köl, Germany), Uta Butt, Daniel Sebastian Majorski, Tim Mathes, Friederike Sophie Magnet, Melanie Berger, Sarah Bettina Schwarz, Wolfram Windisch

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**TP-4 in thematic poster area**  
**Session 86**  
**08:30 - 09:30**

**Thematic poster: The lung after COVID: functional recovery after SARS-CoV-2 infection**

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

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

**Imaging**

**Chairs:** Necmiye Funda Coşkun (Bursa, Turkey), Gordana Pavliša (Zagreb, Croatia)

PA519  
**The utility of 1-minute sit-to-stand test to detect exercise-induced oxygen desaturation in outpatient assessment of post COVID-19 patients.**  
Muhammad Amin Ibrahim (Puncak Alam, Malaysia), Mohd Nazeri Kamarudin, Chee Shee Chai, Mohammed Fauzi Abdul Rani

PA520  
**Dynamic matching of oxygen uptake kinetics and muscle deoxygenation in post-COVID-19**  
Vitor Souza (São Paulo, Brazil), Mariana Lafeta, Maria Saldanha, Fabiana Penido, Thais Menezes, Suzana Tanni, Andre Albuquerque, Luiz Nery, Jaqueline Ota-Arakaki, Eloara Ferreira, Priscila Sperandio

PA521  
**Impact of SARS CoV2 infection on pulmonary gas exchange and exercise capacity in patients with mild to severe COVID-19.**  
Matthias Krüll (Berlin, Germany), Mitra Lara Neymeyer, Oliver Noga
1.5-year course of quadriceps muscle strength following mild-to-critical Covid-19
Anouk Stoffels (Nijmegen (GE), Netherlands), Niccol Voermans, Hieronymus Van Hees, Jeannette Peters, Hanneke Van Helvoort, Esther Van Voorthuizen, Jonne Doorduin, Bram Van Den Borst

Respiratory system resistance and reactance following recovery from non-critical COVID-19
Karen Siddom (Hamilton, Canada), Carmen Venegas, Ashutosh Thakar, Nisarg Radadia, Melanie Kjarsgaard, Chynna Huang, Manali Mukherjee, Terence Ho, Parameswaran Nair, Sarah Svenningsen

Pathophysiologival insights from lung diffusing capacity for nitric monoxide (DLNO) after COVID-19

Role of 1-minute sit-to-stand in the diagnosis of Long COVID
Nuno Faria (Porto, Portugal), Tiago Oliveira, Paula Pinto, Vânia Almeida, Maria José Fernandes, Raquel Carvalho, Maria Sucena, Joana Gomes

Lung changes after Covid-19: What are the functional differences across the spectrum of disease severity?
Mónica Marques Grañó (Montemor-O-Novo, Portugal), Susana Clemente, Susana Carreira, Marco Pereira, Ana Lutas, Andrea Cardoso, Sofia Furtado

Evaluation of functional capacity by cardiopulmonary exercise testing in patients with postCOVID19 syndrome.
Diego Durán Barata (Madrid, Spain), Andrea Pérez Figuera, Silvia Sánchez Cuellar, Aurora Solier López, Beatriz Pintado Cort, Diurbs Josefina Velasco Álvarez, Lidia Aranzabal Orgaz, Raquel Morillo Guerrero

Impact of COVID19 infection on cardiopulmonary functions of a cohort of national level athletes in Sri Lanka
Ruwanthi Thakshila Jayasekara (Nugegoda (WP), Sri Lanka), Wijitha Nissanka, Rukmal Karunanayake, Lal Ekanayake, Suress Chathurant, Namal Wijesinghe, Amitha Fernando

Effects of SARS-CoV-2 Infection on Pulmonary Function Tests and Exercise Tolerance
Josué Ora (Roma (RM), Italy), Bartolomeo Zerillo, Patrizia De Marco, Gian Marco Manzetti, Francesca Camerdelli, Ilaria De Guido, Luigino Calzetta, Paola Rogliani

Pulmonary function and 6-min walk test (6MWT) among North African long COVID patients
Khansa Derbel (Sousse, Tunisia), Sana Sellami, Wafa Benzarti, Sana Aissa, Sonia Rouatbi, Helmi Ben Saad, Ines Ghanouchi

Exercise responses in those with vs. without persistent fatigue post-COVID-19
Michele Schaeffer (Leuven, Belgium), Juthaporn Cowan, Kathryn Milne, Vicente Corrales-Medina, Kim Lavoie, Andrew Mulloy, Julio Chirinos, Sara Abdallah, Jordan Guenette

Lung function variability in one year after COVID-19 pneumonia.
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros, Marcin Paciorek

Lung function at 12-18 months in patients with ARDS due to SARS-CoV-2 pneumonia
Anna Mola Ausiró (Aiguafreda (Barcelona), Spain), Yolanda Galea Colón, Núria Angrill Sellés, Mireia Baiges Badia, Santiago Mora Acosta, Enric Barbeta Sanchez

Respiratory outcomes 3-month following COVID-19-related hospitalisation: a Tunisian prospective study
Meryem Mjid (Tunis, Tunisia), Mjid Meryem, Rihab Jebali, Ameni Naaroura, Chaima Turki, Abir Hedhli, Sana Cheikhrouhou, Samira Merai, Sonia Toujani, Yassine Ouahchi, Dhahri Bessama

Persistent oxygen desaturation during exercise in patients with long COVID
Sara Lococo (Padova, Italy), Gabriella Guarneri, Leonardo Bertagna De Marchi, Antonella Cecchetto, Beatrice Molena, Giovanna Arco, Federico Lionello, Luca Dalle Carbonere, Federica Vllona, Giulia Sartori, Francesca Miscetti, Federica Margherita Lovati, Mariagrazia Morcone, Andrea Vianello, Ernesto Crisafulli

Exercise capacity in one minute sit to stand test and cardiopulmonary exercise test after 90 days of severe Covid 19
André Luis Pereira De Albuquerque (São Paulo (SP), Brazil), Flavia Folchini, Eliana Bandini, Thales Ishizaki, Suzana Tanni, Eloara Campos, João Marcos Salge

Submaximal and maximal exercise tests in the follow up of severe Covid-19
ELIANA LOPES (São Roque, Brazil), Flavia Folchini, Thales Ishizaki, Suzana Tanni, Eloara Ferreira, João Marcos Salge, Wellington Yamaguti, André Albuquerque
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<th>Disease(s)</th>
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<tr>
<td>Respiratory critical care</td>
<td>General respiratory patient care</td>
<td>Christoph Fisser (Regensburg, Germany), Maxime Patout (Paris, France)</td>
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<td>Airway diseases</td>
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<td>Cell and molecular biology</td>
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| PA539 | High severity and mortality of non-COVID-19 critically ill patients during the COVID-19 pandemic | Sua Kim (Ansan, Republic of Korea), Jac Kyeom Sim, Won Jai Jung, Young Seok Lee, Je Hyeong Kim |
| PA541 | Comparative Study of Clinical Outcomes of Severe and Critical COVID-19 Patients With and Without Hemoperfusion Admitted in a Referral Hospital | Maebritt Wincent Tibubos (Quezon City, Philippines), Ralph Moises Royeca, Paul Rilhelm Evangelista, Mary Claire Orden, Glynna Ong-Cabrera, Amor Patrice Estabillo, Ramon Mora |
| PA542 | Dual Oxygenation in Covid-19 - a Retrospective Cohort Study | Ivan GUR (Haifa, Israel), Eyal Fuchs |
| PA543 | Comparison of clinical outcomes between COVID-19 vaccinated and unvaccinated patients admitted to a Respiratory Intensive Care Unit. | Federico Lionello (Padova, Italy), Gabriella Guarnieri, Beatrice Molena, Chiara Giraudo, Giovanna Arcaro, Sara Lococo, Fausto Braccioni, Alessia Alessia, Cristina Contessa, Francesca Lugato, Federico Gallan, Andrea Vianello |
| PA544 | Organizing pneumonia due to COVID-19: the experience of one year in an intensive care unit | João Paulo Duarte dos Santos Oliveira Rodrigues (Oliveira do Hospital, Portugal), Ricardo Júnior, Mário Pinto, Ana Santos, Rita Gerardo, António Miguel, Luís Bento |
| PA545 | Risk factors for mortality in COPD patients with COVID-19 admitted to Intensive Care Unit | Laia Fernandez Barat (Barcelona, Spain), Sergio Alvarez-Napagao, Marta Barroso, Ana Motos, Albert Gabarrús, Adrian Ceccato, Raquel Pérez, Dario Garcia, Denise Battagliini, Andrea Palomeque, Jesús Bermejo, Ferran Barbé, Antoni Torres |
| PA546 | Urea/albumin ratio associated with mortality in hospitalized COVID-19 patients: a cohort study | Rosbion Prudente (Botucatu (SP), Brazil), Estefanía Franco, Luiz Machado, Luis Brizola, Maercio Santos, Edris Savadkouhi, Camila Colombo, Letícia Ishimoto, Suzana Tanni |
| PA547 | Is acute phase severity predictive of long-covid-19 development? | Simonetta Vernocchi (Gallarate, Italy), Andreas Akeranti |
| PA548 | Mallampati score is an independent predictor of active oxygen therapy in patients with COVID-19. | Aleksandra Oraczewska (Dąbrowa Górnicza, Poland), Maciej Dyrbus, Szymon Szmielgiel, Szymon Gaweda, Paulina Kluszczyk, Tomasz Darocha, Tomasz Cyzowski, Ewa Trejnowska, Andrzej Swinariew, Michał Wita, Paweł Dubik, Sebastian Kwiatek, Marek Jedrzejek, Michał Kozlowski, Beata Puzanoswka, Adam Barczyk, Szymon Skoczylas |
| PA549 | Clinical Characteristics of COVID-19 between ICU and non-ICU patients | Tuan Muhammad Syukri Tuan Kho (SUNGAI BULOH, Malaysia), Muhammad Amin Ibrahim, Allim Khairuddin, Muhammad Syafiek Mohd Razali, Ridhwan Abd Razak, Zahiah Abd Aziz, Noor Hashida @ Juita Hassan |
| PA550 | 4C Mortality Score and high-flow nasal oxygen therapy outcome in COVID-19 | Pavol Pobeha (Košice, Slovakia), Ivana Paramicova, Simona Bodnarova, Peter Skyba, Patrik Jonek, Eva Sokolova, Ingrid Libakova, Pavol Joppa |
| PA551 | Clinical impact of out-of-ICU non-invasive respiratory support in patients with COVID-19 related pneumonia | Julia Tarrega Carmona (Granollers, Spain), Inmaculada Castillo Sánchez, Julia Brugué González, Yolanda Galea Colon, Núria Angrill Sellés, Enric Barbeta Sánchez |
| PA552 | Air leak in Covid 19: experience from a DGH in the UK | Avinash Aujayeb (Newcastle, United Kingdom) |
| PA553 | One-year mortality in COVID-19 is associated with patients’ comorbidities rather than pneumonia severity | Luca Novelli (Bergamo, Italy), Federico Raimondi, Greta Carioli, Alessandra Carobbi, Simone Pappacena, Luca Malandrino, Roberta Biza, Roberta Trappaso, Marisa Anelli, Mariangela Amoroso, Chiara Allegri, Gianluca Imeri, Caterina Conti, Marta Beretta, Marco Rizzi, Ferdinando Luca Lorini, Michele Senni, Alessandro Rambaldi, Tiziano Barbui, Fabiano Di Marco |
| PA554 | Amount and distribution of parenchymal abnormalities at CT-scan do not predict awake prone position outcome in COVID-19 | Luca Novelli (Bergamo, Italy), Federico Raimondi, Simone Pappacena, Simona Annibali, Ilaria Bianco, Luca Malandrino, Sara Cazzandiga, Matteo Brivio, Roberta Trappaso, Simone Bonetti, Francesco Cagliani, Carlo Catani, Chiara Allegri, Roberta Biza, Marisa Anelli, Fabiano Di Marco |
Noninvasive ventilation (NIV) with auto-titrating EPAP to extubation for Acute Myocardial Infarction (AMI) patient with heart failure
BoXue Han (Beijing, China), Maoliang Tian, Ying Wang, Wei Wang, Zhitaio Jin, Donghua Shen, Guanghan Wu

Assessment of lung recruitment with continuous negative extrathoracic pressure after one-lung ventilation: an experimental investigation
Almos Schranc (Szeged, Hungary), John Diaper, Roberta Südy, Ferenc Peták, Walid Habre, Gergely Albu

Late Breaking Abstract - Awake Prone Positioning for COVID-19 Hypoxemic Respiratory Failure: A Systematic Review and Meta-Analysis of Randomized Trials
Jason Weatherald (Edmonton, Canada), Ken Kuljit Singh Parhar, Zainab Al Duhailib, Derek Chu, Anders Granholm, Kevin Solverson, Kimberley Lewis, Morten Hylander Moller, Mohammed Alshahran, Emilie Belley-Côté, Nicole Loroff, Cheryl Gatto, Edward T. Qian, Todd Rice, Dan Niven, Henry T. Stelfox, Kirsten Fiest, Deborah Cook, Yaseen Arabi, Waleed Alhazzani

Late Breaking Abstract - Changes in surface activity of lung surfactant and bronchoalveolar cell profile upon COVID-19-related Acute Respiratory Distress Syndrome
Paula Losada-Oliva (Madrid, Spain), Chiara Autilio, David Sánchez Ortiz, Alvaro Mingote, Raquel Castejon Diaz, Gonzalo Hernandez, Gema Diaz, Mercedes Echaide, Clara Salas, Juan Antonio Vargas, Jesus Perez-Gil

TP-6 in thematic poster area

Thematic poster: High flow therapy and NIV in the acute and chronic setting

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

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

Chairs: Marike L. Duiverman (Groningen, Netherlands), Chloé Cantero (Paris, France)

Are home high-flow therapy (HFT) devices as good as hospital HFT devices?
Emeline Fresnel (Bois-Guillaume, France), Sirine Laya, Adrien Kerfourn, Tristan Bonnevie, Léa Razakamanantsoa, Christophe Girault, Maxime Patout

Heated, humidified high flow therapy at home setting in children with respiratory failure- Single centre experience
Eman Hassaanin (Horshoth, United Kingdom), Saikiran Gopalakaje, Christopher Edwards

Improved survival with high pressure NIV for acute hypercapnic respiratory failure in COPD
Caroline Hedsund (København Ø, Denmark), Philip Mørkeberg Nilsson, Nils Hoyer, Daniel Bech Rasmussen, Claire Praest Holm, Jens Ulrik Jensen, Jon Torgny Wilcke

Non-invasive ventilation for COPD exacerbations in daily clinical practice
Judith Elshof (Groningen, Netherlands), Anouschka Van Der Pouw, Els Fikkers, Petra J.E. Vos, Peter J. Wijkstra, Marike L. Duiverman

Association of admission pH with long-term mortality in patients requiring non-invasive ventilation (NIV) for obesity-related respiratory failure (ORRF)
Aditya Krishnan (Birmingham, United Kingdom), Kathryn Brummer, Pearline Antoine-Pitterson, Alain Helou, Alice Turner, Rahul Mukherjee

RISK FACTORS FOR RESPIRATORY INFECTIONS IN ALS PATIENTS
Natalia Pascual Martinez (Cordoba, Spain), Estefanía Mira Padilla, Cristina Gómez Rebollo, Cristina Muñoz Corroto, Pablo García Lovera, Elena Lesaga López, Miguel Angel Mendoza Alarcón, Roberto Martín De León

Use of mathematically arterialised venous blood gas sampling: Comparison with arterial, capillary, and venous sampling
Michael Davies (Cambridge (Cambridgeshire), United Kingdom), Dariusz Wozniak, Tim Quinnell, Earl Palas, Susan George, Yingchang Huang, Ian Smith, Lars Pilegaard Thomsen, Stephen Rees

Exhaled gases and the potential of cross infection from NIV machines.
Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Ben Messer, Alison Armstrong

Utility of Cobb angle as predictor of noninvasive ventilation initiation in patients with kyphoscoliosis.
Antonio Quezada Reynoso (València (Comunidad Valenciana), Spain), Jesus Sancho Chinea, Santos Ferrer Espinosa, Jaime Signes-Costa

Home noninvasive ventilation in Myasthenia Gravis: features and predictors.
Antonio Quezada Reynoso (València (Comunidad Valenciana), Spain), Santos Ferrer Espinosa, Jesus Sancho Chinea, Elia Giménez Samblas, Ana Maria Ferrer Martí, Jaime Signes-Costa
### PA569
**Long term continuous positive airway pressure prescription after an acute hypercapnic respiratory failure**
Katiuska Herminia Liendo Martinez (Madrid, Spain), Daniel López Padilla, Virginia Gallo González, Elena Ojeda Castillo, Alicia Cerezo Lajas, Francisco Caballero Segura, Teresa Gómez García, Luis Puente Maestú, Soledad López Martín

### PA570
**Remote monitoring and virtual follow-up ventilation clinics in the age of Covid-19**
Cat Goodin (Nottingham, United Kingdom), Alex Bond-Alliston, Milind Sovani

### PA572
**Long-term effects of Noninvasive ventilation (NIV) on exacerbations rate and mortality in stable hypercapnic COPD patients**
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, Georgios Statthakis, Georgios Vaios, Athanasios Voulgaris, Paschalis Steiropoulos, Nikolaos Tzanakis, Sophia Schiza

### PA573
**Analysis of Home Non-Invasive Ventilation ambulatory monitoring in chronic hypercapnic respiratory failure**
Eleonora Russo (Torino, Italy), Alessio Mattei, Michela Maria Belloccia, Fulvia Ribolla, Chiara Chiapperio, Giuseppe Tabbia, Marco Michele Bardesson, Federico Sciarone, Mattia Verardo, Francesco Todisco, Elena Sitia, Carlo Albera

### TP-7 in thematic poster area
#### Session 89 08:30 - 09:30
**Thematic poster: Impact of the external and internal exposome on chronic lung disease**

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

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

**Chairs:** Tania Maes (Ghent, Belgium), Charalampos Michaeloudes (London, United Kingdom)

- **PA574**
  **A novel mouse model reproducing pathomorphological and inflammatory hallmarks of COPD**
  Bernhard Reiter (8010 Graz, Austria), Natalie Bordag, Diana Schnoegl, Nagy Bence, Martina Delbeck, Grazyna Kwapiszewska, Hana Cernecka, Jörg Meding, Leigh M Marsh

- **PA575**
  **Modifications of pulmonary macrophages function by heated tobacco products.**
  Perrine Donay (Liège (Sart-Tilman), Belgium), Didier Cataldo, Marie-Julie Nokin, Marie-Laure Delhez

- **PA576**
  **Using NanoString to investigate effects of cigarette smoke extract on gene expression in lung fibroblasts from healthy and COPD subjects.**
  Martin Ryde (Lund, Sweden), Nicole Van Der Burg, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson

- **PA577**
  **Nicotine-Induced Epithelial-Mesenchymal Transformation (EMT): Difference Between Normal and Asthmatic Bronchial Epithelium**
  Hasan Yuksel (Manisa, Turkey), Merve Ocalan, Ozge Yilmaz, Seda Tunca, Adem Yasar, Damla Akogullari, Seda Vatansever

- **PA578**
  **Interaction between type 2 cytokine and inflammasome responses in the pathogenesis of obesity-associated asthma**
  Jay Horvat (Newcastle (NSW), Australia), James Pinkerton, Richard Kim, Alexandra Brown, Brittany Rae, Chantal Donovan, Jasmijn A. Schrumpf (Leiden, Netherlands), Mikaela Tham, Dennis K. Ninaber, Erika Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra

- **PA579**
  **LSC - 2022 - Allergen exposure induces airway macrophage metabolic reprogramming**
  Gesa J Albers (London, United Kingdom), Patricia P Ogger, Robert Gray, John M Halket, Gail Gauvreau, Paul O'Byrne, Clare M Lloyd, Adam J Byrne

- **PA580**
  **Circadian pathway is downregulated in lungs and adipose tissue in the rat model of allergic airway inflammation**
  Aleksandra Szczepankiewicz (Poznań, Poland), Joanna Nowakowska, Wojciech Langwiński, Paweł Kołodziejski, Ewa Pruszyńska-Oszmałek, Natalia Leciejewska, Kamil Ziarniak, Dawid Szczepankiewicz

- **PA581**
  **Sex-related differences in allergen house dust mite mediated changes in the lung proteome.**
  courtney marshall (winnipeg, Canada), Dina Mostafa, Mahadevappa Hemshekar, Robert Balshaw, Victor Spicer, Neelofer Mookherjee

- **PA582**
  **Farm dust exposure decreases TNF-α/IFN-γ-mediated IL-33 expression in primary bronchial epithelial cells in part by interfering with IFNGR-JAK-STAT1 signaling**
  Jasmin A. Schrumpf (Leiden, Netherlands), Mikaela Tham, Dennis K. Ninaber, Erika Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra

- **PA583**
  **Source-specific Th17 responses induced by real-world air pollution and amelioration by vitamin D**
  Drew Glencross (London, United Kingdom), Charlotte Cheadle, Tanapat Palaga, Tassanee Prueksasit, Ganjana Lertmemmongkolchaisi, Ian Mudway, Catherine Hawrylowicz
PA584  Evidence for a role of the aryl hydrocarbon receptor in inflammatory responses to air pollution
Drew Glenocross (London, United Kingdom), Charlotte Cheadle, Tanapat Palaga, Tassanee Pruksasit, Ganjana Lertmemongkolchai, Ian Mudway, Catherine Hawrylowicz

PA585  Source-related composition and toxicological effects of shipping-associated particulate matter
Lareb S.N. Dean (Southampton, United Kingdom), Natasha H.C. Easton, James G.H. Parkin, Robert A. Ridley, Franco Conforti, Matthew J. Cooper, Yihua Wang, Mark G. Jones, Donna E. Davies, Gavin L. Foster, Matthew Loxham

PA586  Epithelial and mesenchymal compartment during differentiation of human iPSC into functional bronchial epithelium
Amel Nasri (Montpellier, France), Florent Foisset, Carine Bourdais, Engi Ahmed, Isabelle Vachier, Said Assou, Arnaud Bourdin, John De Vos

PA587  Investigating the effects of metals within particulate matter in human alveolar epithelial cells
Lareb S.N. Dean (Southampton, United Kingdom), Helen S. Vethakan-Raj, James G.H. Parkin, Robert A. Ridley, Franco Conforti, Juluan Downward, Yihua Wang, Mark G. Jones, Donna E. Davies, Matthew Loxham

PA588  Acute ozone-induced neutrophilic inflammation is driven by IL-1β independent of NLRP3 and caspase-1
( ), Stephen Schwörer, Alexäe Knee, Corey Jania, Jenny Ting, David Peden

PA589  Potential toxic effects in the lung of planetary dust
Jie Ji (stockholm, Sweden), Ingrid Corazzari, Francesco Turci, Per Gerde, Lars Karlsson, Dag Linnarsson, David J Loftus, G. Kim Prisk, Urs Stauffer, Erin M Tranfield, Wim Van Westrenen, Lena Palmberg

PA590  Complex Urban Atmospheres alter Alveolar Mesenchymal Stem Cell Niche Properties and drive Lung Fibrosis
Randa Belgacemi (AULNAY SOUS BOIS, France), Bruno Ribeiro, Grégoire Justeau, Marylène TOIGO, Audrey Der Vartanian, Saverio Belluscio, Geneviève Derumeaux, Denise Al Alam, Jorge Boczkowski, Patrice Coll, Sophie Lanone, Laurent Boyer

PA591  Late Breaking Abstract - Plasma proteomics analysis reveals sex-related differences in response to diesel exhaust
Mahadevappa Hemshekhar (Winnipeg, Canada), Juma Orach, Victor Spicer, Robert Balshaw, Christopher Carlsten, Neeloffer Mookherjee

TP-8 in thematic poster  Session 90  08:30 - 09:30

Thematic poster: Translational modelling of lung diseases

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

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

Chairs: Darcy Wagner (Lund, Sweden), Vanessa Ho (London, United Kingdom)

PA592  New physiomimetic model for ARDS in vitro studies
Esther Marhuenda (Barcelona (Catalonia), Spain), Alvaro Villarino, Maria Narciso, Nuria Gavara, Ramon Farre, Isaac Almendros, Jordi Otero

PA593  Establishment of a human in-vitro model for airway epithelial repair and regeneration
Ashesh Chakraborty (Munich, Germany), Ashesh Chakraborty, Michal Mastalerz, Rudolf Hatz, Jürgen Behr, Michael Lindner, Anne Hilgendorf, Claudia A. Staab-Weijsmit

PA594  Divergent effects of macrophage migration inhibitory factor and D-dopachrome tautomerase on lung epithelial regeneration
Shanshan Song (Groningue (GR), Netherlands), Habibie Habibie, M.H. De Jager, Corry-Anke Brandsma, Gerrit J Poelarends, Barbro N Melgert

PA595  Culturing primary alveolar epithelial cells on lung hydrogels preserves the type II phenotype
Jorge Otero (Barcelona, Spain), Esther Marhuenda, Alvaro Villarino, Maria Leonor Narciso, Nuria Gavara, Ramon Farré, Isaac Almendros

PA596  Collagen hydrogels reinforced with bacterial nanocellulose fibers for the development of in vitro 3D lung models
Nanthilde Malandain (Barcelona, Spain), Hector Sanz-Fraile, Ramon Farré, Anna Laromaine, Anna Roig, Jordi Otero

PA597  Murine Precision Cut Lung Slices as a model of heme-induced acute injury.
Namrata Kewalramani (Mumbai (Maharashtra), India), Carlos Machaahu, Blank Fabian, Melanie Scalice, Jessica Petracca, Michelle Schorer, Fabian Kaeßermann, Kleanthis Fytianos, Manuela Funke-Chambour
Ex vivo modeling of human lung fibrogenesis and drug mode of action screens using single cell RNA-seq in precision-cut lung slices

Niklas Jonathan Lang (München, Germany), Meshal Ansari, Lin Yang, Shuhong Zhou, Diana Porras-Gonzalez, Ahmed Agami, Christoph H. Mayr, Baharak Hooshiar Kashani, Lukas Heumos, Michael Gereckens, Yuexin Chen, Janine Schniering, Mircea-Gabriel Stoleriu, Rudolf Hatz, Jürgen Behr, Fabian J. Theis, Gerald Burgstaller, Herbert B. Schiller


Niklas Jonathan Lang (München, Germany), Meshal Ansari, Diana Porras-Gonzalez, Ahmed Agami, Baharak Hooshiar Kashani, Shuhong Zhou, Lin Yang, Michael Gereckens, Xin Wei, Christoph H. Mayr, Janine Schniering, Mircea-Gabriel Stoleriu, Rudolf Hatz, Jürgen Behr, Gerald Burgstaller, Herbert B. Schiller

A tunable lung physiomimetic stretch system evaluated with precision cut lungs slices and recellularized human lung scaffold

Arturo Ibáñez Fonseca (Lund, Sweden), Oskar Rosmark, Johan Thorssons, Göran Dellgren, Oskar Hallgren, Anna-Karin Larsson Callerfelt, Gunilla Westergren-Thorsson

Pulmonary endothelial cells support growth of human alveolar organoids: possible influence of cigarette smoke exposure

Abilash Ravi (Leiden, Netherlands), Xinhui Wu, Anne M. Van Der Does, Andries Van Der Meer, Jill M. Johnson, Martin C. Harmsen, Reindou Gosens, Pieter S. Hiemstra

Using forward genetic screens and novel human alveolar organoid models to study surfactant protein C trafficking in health and disease

Eimear Rutherford (CAMBRIDGE, United Kingdom), Dick Van Den Boomen, Kyungtae Lim, Paul Lehner, Emma Rawlins, Stefan Marciniak, Jennifer Dickens

Heterogeneity of airway remodeling in cystic fibrosis

Astrid Vermaut (Oud-Heverlee, Belgium), Vincent Geudens, Lynn Willems, Janne Kaes, Hanne Beeckmans, Charlotte De Fays, Laurens Ceulemans, Robin Vos, Bart Vanaudenaerde, Lieven Dupont, Mieke Boon

Antimicrobial-induced changes in the intestinal microflora affected hydrogen gas production in a mouse model of acute lung injury

Manato Kawano (Kanagawa, Japan), Kozue Kobayashi, Kenichi Kokubo, Masaru Kubota

Methotrexate induces DIILD sporadically and at low incidence in rodents, similar to clinical scenario in humans

Nina Fransén Pettersson (Lund, Sweden), Carla Carvalho, Irma Mahnutovic Persson, Hanna Falk-Håkansson, Jian Liu, Lars E. Olsson, Karin Von Wachenfeldt

Acute exacerbation in chronic pulmonary fibrosis: Histopathological and molecular characterisation of the mice model

E. Boncoeur (Paris, France), Céline-Hivda Yegen, Liasmine Haine, Dominique Marchant, Carole Planes, Nicolas Voituron

Moderate and severe hyperoxia in preterm rabbits: airway reactivity, forced expiration and forced oscillation outcomes

Yannick Regin (Brussels, Belgium), André Gie, Ignacio Valenzuela, Marnell Greyling, Vincent Lenders, Jeroen Vanoirbeek, Jaan Toelen

Late Breaking Abstract - hLMSC secretome affects macrophage activity differentially depending on lung-mimetic environments

Bryan Falcons (Malmö, Sweden), Zackarias Söderlund, Arturo Ibáñez, Isaac Almendros, Jordi Otero, Ramon Farré, Sara Rolandssen Enes, Linda Elowsson Rendin, Gunilla Westergren-Thorsson

Late Breaking Abstract - Idiopathic pulmonary fibrosis-on-chip: A new model based on biological membranes

Pauline Zamprogno (Bern, Switzerland), Jan Schulte, Tobias Weber, Arunima Sengupta, Thomas Geiser, Olivier T. Guenat

Late Breaking Abstract - Spatially resolved transcriptomics of human and mouse fibrotic lung

Lovisa Franzén (Solna, Sweden), Martina Olsson Lindvall, Sonya Jackson, Gregory Hamm, Ben Keith, Steven Oag, Astrid Collin, Jennifer Cann, Julia Lindgren, Graham Belfield, Anna Ollerstam, Marianna Stamou, Patrik Ståhl, Jorrit Hornberg

Late Breaking Abstract - Febuxostat inhibits inflammation and fibrosis in a murine model of LPS-induced lung injury

Shin Ohta (Tokyo, Japan), Hitoshi Ikeda, Takaya Ebato, Hideki Inoue, Tetsuya Homma, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

Late Breaking Abstract - Febuxostat inhibits inflammation and fibrosis in a murine model of LPS-induced lung injury

Shin Ohta (Tokyo, Japan), Hitoshi Ikeda, Takaya Ebato, Hideki Inoue, Tetsuya Homma, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

Thematic poster: Sleep and breathing in different respiratory and nonrespiratory disorders
Disease(s) : Airway diseases, Sleep and breathing disorders, Interstitial lung diseases, Thoracic oncology
Method(s) : Epidemiology, Public health, General respiratory patient care, Surgery, Pulmonary function testing, Pulmonary rehabilitation

Chairs : Mirjam Elisa Ljunggren (Uppsala, Sweden), Johan Verbraecken (Edegem (Antwerp), Belgium)

PA612
The influence of smoker status on sleep – more than architectural changes in patients with sleep disorders – a retrospective study
Andreea Florescu (București, Romania), Andreea Cocari, Corina Borcea, Ancuta Tudor, Florin Dumitru Mihaltan, Oana Claudia Deleanu

PA613
Prognostic cardiovascular markers in COPD patients with and without OSA
Diane Rezende Batista (Botucatu (SP), Brazil), Silke Anna Theresa Weber, Jefferson Luis De Barros, Vanessa Do Lago, Robson Aparecido Prudente, Estefânia Thomé Franco, Luiz Henrique Soares Machado, Suzana Erica Tanni

PA614
Comparison of serum vitamin D levels in patients with Overlap Syndrome, patients with pure Obstructive Sleep Apnea, and controls
Paschalis Steiropoulos (Alexandroupolis, Greece), Athanasios Voulgaris, Kostas Archontogeorgis, Evangelia Nena, Athanasios Zissimopoulos, Michail Fanaridis, Izolthi Bouloukaki, Sofia Schiza

PA615
Airway inflammation in moderate/severe asthma and concomitant OSA patients- FeNO assessment
Daniel Pimenta Rocha (Senhora Da Hora, Portugal), André Nunes, Filipa Carriço, Daniela Rodrigues, Mafalda Van Zeller, Marta Drummond

PA616
Prevalence of Insomnia among Patients with Bronchial Asthma
Abdullah Alharb (Riyadh, Saudi Arabia), Tammam Alanazi, Hazim Alghamdi, Meshal Alberreet, Abdulaziz Alkewaibeen, Abdulrahman Alkhalfih, Aamir Omair, Mohammad Khan, Hamdan Al-Jahdali

PA617
Limited utility of STOP-BANG in identification of obstructive sleep apnoea in fibrotic interstitial lung disease
Katherine Myall (London, United Kingdom), Alex West, Jennifer Martinovic, Zhe Wu, Jodie Lam, Diana Roque, Victor Jardim, David J Jackson, Toby Maher, Eui-Sik Suh, Philip Molyneaux, Brian Kent

PA618
Clinical impact of Obstructive Sleep Apnea on Depression in patients with Cystic Fibrosis and non-Cystic Fibrosis Bronchiectasis patients
Duygu Vezir (İSTANBUL, Turkey), Baran Balcan, Derya Kocakaya, Caner Çnar, Şehnaz Olgun Yıldızeli, Berrin Ceyhan

PA619
Obstructive Sleep Apnea in patients with Cystic Fibrosis and non-Cystic Fibrosis Bronchiectasis and its relation with clinical parameters
Duygu Vezir (İSTANBUL, Turkey), Baran Balcan, Derya Kocakaya, Caner Çnar, Şehnaz Olgun, Berrin Ceyhan

PA620
The association between pain and sleep quality
Yosr Aloulou (Manouba, Tunisia), Hadhemi Rejeb, Hela Kammoun, Dorra Greb, Ines Akrouf, Hejer Ben Abdelghaffar, Hela Hassen, Leila Fekih, Hanen Smadhi, Mohamed Lamine Megdich

PA621
CPAP therapy and the COVID pandemic.
Edward Lee (Melbourne, Australia), Joshua O’Day (Clayton South, Australia), Edward Lee, Patricia Lyell, Simon Frenkel, Anne Marie Southcott

PA622
OSA patients’ opinions concerning their disease and treatment during the pandemic
Athanasia Patakka (Thessaloniki, Greece), George Kalamaras, Seraphim Kotoulas, Katalin Fekete, Efimia Daskalopoulou-Vlachogianni

PA623
Prevalence of sleep-related breathing disorders in long-COVID
Winfried J. Randerath (Solingen, Germany), Simon Herkenrath, Sandhya Matthes, Rembert Koczulla, Martina Bönsch, Daniela Lei tougher, Marcel Treml

PA624
COVID-19 Pandemic Effects on sleep quality, mental health and memory
Jaber Alqahtani (Dammam, Saudi Arabia), Saad Alrabeah, Abdeluleh Aldahhir, Rayan Siraj, Yousef Aldabayan, Saeed Alghamdi, Abdullah Alqahtani, Ibrahim Aldraiweis, Ahmed Aldakhl

PA625
Long term sleep disturbances in Tunisian COVID-19 patients discharged from hospital: a cohort study
Abid Sourour (Sfax, Tunisia), Nadia Bouattour, Nesrin Kallel, Mariam Turki, Issraa El Whadhan, Amina Kotti, Najla Halouani, Jihene Aloulou, Sameh Msaad, Walid Fekih, Samy Kammoun

PA626
Evaluation of sleep quality among post-COVID patients: findings from a 6-month follow-up study
Evgenia Kalamaras (Athens, Greece), Athanasia Patakka, Aforditi Bountou, Evangelia Panagiotidou, Athina Georgopoulou, Evangelos Ballas, Isidora Bakaimi, Adamantios Chloros, Symeon Metallidis, Ioannis Kioumis, Georgia Pitsiou

PA627
Hospitalizations in OSA patients
Gabriela Sofia Cancela da Fonseca Ferreira Santos (Lisboa, Portugal), Mafalda Van Zeller, Filipa Carriço, Daniela Rodrigues, Margarida Torres Redondo, Marta Drummond
### Session 92: News from the Studio - Welcome and Introduction

**Chairs:** Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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</table>

### Session 93: Pro-Con debate: T2 high and T2 low asthma: should we care, or should we only care about asthma?

**Aims:** To introduce the current status of asthma patients with T2 inflammation.

**Disease(s):** Airway 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, Paediatrician, Physician in Pulmonary Training

**Chairs:** Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:15</td>
<td>We should phenotype before treating asthma: Pro</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>09:25</td>
<td>We should phenotype before treating asthma: Con</td>
<td>Marco Idzko (Wien, Austria)</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 94: State of the art session: Airway diseases

**Precision medicine for asthma, chronic obstructive pulmonary disease and chronic cough: new drugs, biomarkers and approaches**

**Aims:** to discuss an individual’s ageing patterns and how these can impact future clinical outcomes; to discuss the identification and treatment options for people with chronic cough; to discuss relevant biomarkers and how to apply them in clinical practice; to provide insight into the barriers to and facilitators of using pulmonary rehabilitation as a vehicle to implement a treatable traits approach.

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

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

**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:** Apostolos Bossios (Stockholm, Sweden), Emer Kelly (Dublin 4, Ireland)

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<th>Time</th>
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<tr>
<td>09:30</td>
<td>GETomics: integrating the time axis in our understanding of chronic obstructive pulmonary disease</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
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<td>09:45</td>
<td>The interrelatedness of chronic cough and chronic pain</td>
<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>Biomarkers of airway diseases in clinical practice</td>
<td>Florence Schleich (Liège, Belgium)</td>
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<tr>
<td>10:15</td>
<td>Patient's testimony</td>
<td>Hanna Nielsen (, Sweden)</td>
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</tbody>
</table>
Symposium: Holistic management and rehabilitation of fibrosing interstitial lung diseases

Aims: to describe progress in non-pharmacological management of patients with fibrosing interstitial lung diseases (f-ILDs), including changes in clinical practice and the efficacy of treatments, using a patient-centred approach; to analyse the importance of self-management and the growing role of information and computing technologies in supporting monitoring, rehabilitation and non-pharmacological interventions in f-ILDs, including after lung transplantation; to describe non-pharmacological interventions that aim to relieve symptoms and improve quality of life; to provide an update on dedicated pulmonary rehabilitation strategies and outcome measures in f-ILDs, considering the "new normal" in the context of the pandemic; to discuss new insights into the role of oxygen supplementation in management of breathlessness and the role of ambulatory oxygen in preventing exertional hypoxaemia and maximising the benefits of pulmonary rehabilitation.

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

Method(s): General respiratory patient care, Palliative care, Pulmonary rehabilitation

Tag(s): Clinical

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

Chairs: Anh Tuan Dinh-Xuan (Paris, France), Hilary Pinnock (Edinburgh, United Kingdom)

09:30 Patient's testimony
Steve Jones (Cambridge, United Kingdom)

09:35 Digitally supported self-management and rehabilitation of f-ILD patients
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

09:50 Supportive care pathways for patients with f-ILDs and the impact of the COVID-19 pandemic
Elisabetta Renzoni (London, United Kingdom)

10:05 Standards of pulmonary rehabilitation in f-ILDs: where are we?
Anne Holland (Fitzroy North (VIC), Australia)

10:20 The role of oxygen in the management of dyspnoea in f-ILDs
Magnus Ekström (Lund, Sweden)

10:35 Discussion and Q&A
All Speakers

Clinical cases: Lungs on fire: Lung cancer?

Aims: To facilitate the presentation of 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, Thoracic oncology

Tag(s): Clinical

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

Chairs: Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)

Discussants: Andriani Charpidou (Athens, Greece), Sam Janes (London, United Kingdom)

09:30 Case 1 incl. panel discussion and Q&A - Author: F. Mei (Italy)
Andriani Charpidou (Athens, Greece)

09:52 Case 2 incl. panel discussion and Q&A - Author: S. Wickramasinghe (Sri Lanka)
Sam Janes (London, United Kingdom)
**Session 97**  
**8G - live streamed**  
**09:30 - 11:00**  
**Hot topics: Beyond COVID: translating COVID treatment successes to all-cause ARDS**

**Aims:** To demonstrate that COVID ARDS may serve as model for all-cause ARDS, and to explain how COVID research data may help to improve the medical management of all-cause ARDS. The target audience includes translational and clinical scientists, as well as respiratory intensive care physicians. After the session, attendants will be able to identify the following: 1. how phenotypic data collected during the COVID pandemic will help distinguish ARDS phenotypes that are most likely to respond to treatment, 2. which of the treatments that were tested during the COVID pandemic are potential novel candidates for the treatment of ARDS, and 3. how research infrastructure developed in response to the COVID pandemic will help to accelerate drug development for ARDS.

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

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

**Tag(s):** COVID

**Target audience:** Clinical researcher, Medical Student, Respiratory critical care physician, Physiologist

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Judith Garcia Aymerich (Barcelona, Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker, Location</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Translating COVID biomarkers to treatable traits in ARDS</td>
<td>Tiffanie Jones (Philadelphia, United States)</td>
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<tr>
<td>09:45</td>
<td>Targeting novel pathways to dampen the inflammatory response</td>
<td>Manu Shankar-Hari (London, United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>Improving vascular stability to enhance alveolocapillary function in ARDS</td>
<td>Jurjan Aman (Amsterdam, Netherlands)</td>
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<tr>
<td>10:15</td>
<td>Adaptive platform trials: shifting gears from COVID to tailored ARDS interventions</td>
<td>Carolyn Calfee (San Francisco, United States)</td>
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<td>10:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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**Session 98**  
**8H - live streamed**  
**09:30 - 11:00**  
**Hot topics: Moving to prevention of preschool wheeze and asthma: almost there?**

**Aims:** to discuss viral infections as asthma triggers; to describe the background and possible mechanisms of bacterial lysate therapy; and to summarise recent research findings, suggesting their beneficial effects on asthma exacerbation frequency.

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

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physiologist, Journalist

**Chairs:** Monika Gappa (Düsseldorf, Germany), Alexander Möller (Zürich, Switzerland), Angela Zacharasiewicz (Wien, Austria)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Patient's testimony</td>
<td>Danny Vijmsa (Almere, Netherlands)</td>
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<tr>
<td>09:35</td>
<td>Immune system function and reaction to infection and inflammation</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:50</td>
<td>Factors and mechanisms of preschool wheezing</td>
<td>Sejal Saglani (London, United Kingdom)</td>
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<tr>
<td>10:05</td>
<td>Paediatric trials using bacterial lysates</td>
<td>Susanna Esposito (Milano (MI), Italy)</td>
</tr>
<tr>
<td>10:20</td>
<td>Asthma prevention in 2022</td>
<td>Erika von Mutius (München, Germany)</td>
</tr>
<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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Oral presentation: Novel targets and approaches in pulmonary translational research

**Session 99**

<table>
<thead>
<tr>
<th>Disease(s):</th>
<th>Interstitial lung diseases</th>
<th>Airway diseases</th>
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<tbody>
<tr>
<td>Method(s):</td>
<td>Cell and molecular biology</td>
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<tr>
<td>Chairs:</td>
<td>Audrey Joannes (Rennes, France), Antoine Froidure (Bruxelles, Belgium)</td>
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</table>

OA662 Monocyte migration epigenetically regulated by PRMT7 driving COPD pathogenesis
Thomas Conlon (Neuherberg, Germany), Aicha Jeridi, Gizem Günes Günsel, Niklas J. Lang, Meshal Ansari, Hannelore P. Van Eeckhoutte, Stijn Verleden, Tobias Stoeger, Melanie Königshoff, Oliver Eickelberg, Ken R. Bracke, Gerald Burgstaller, Henrik Watz, Herbert B. Schiller, Robert Schneider, Ali Önder Yildirim

OA663 Secreted phospholipase A2 X1A triggers a mitochondrial damage-induced senescence in chronic obstructive pulmonary disease (COPD) fibroblasts
Danushki Herath (Créteil, France), Benjamin Even, Mathilde Oranger, Dulce Papy, Laurent Boyer, Jorge Boczkowski, Maylis Daguassat

OA664 Involvement of FGF21 in pulmonary fibrosis
Mada Ghanem (Paris, France), Aurelien Justet, Mouna Hachem, Tiara Boghanim, Aurelie Vadel, Madeleine Jaille, Arnaud Mailleux, Bruno Crestani

OA665 Role of Wnt5a signals in allergic asthma
Abhinav Singla (Essen, Germany), Karin Peters, Sebastian Reuter, Hendrik Beckert, Sandra Busse, Petra Bonowitz, Marcus Peters, Christian Taube

OA666 Lung tissue multi-layer network in COPD
Núria Olvera Ocaña (Barcelona, Spain), Jon Sánchez-Valle, Iker Núñez, Sandra Casas-Recasens, Alejandra Lopez-Giraldo, Rosalba Lepore, Davide Cirillo, Álvar Agusti, Alfonso Valencia, Rosa Faner

OA667 Increasing efficiency of alveolar type II cells generation from human induced pluripotent stem cells
Alejandro Rodriguez Ruiz (Leiden, Netherlands), Abilash Ravi, Shewanti Khoenkhoen, Marcella Dias Brescia, Berend van Meer, Ruth Olmer, Martin Ulrich, Pieter Hiemstra, Anne van der Does

OA668 Spatial ECM proteomics resolves instructive tissue niches in the distal human lung
Yuemin Chen (München, Germany), Janine Schniering, Pascal Albanese, Meshal Ansari, Christoph H. Mayr, Peter Dorfmüller, Mircea-Gabriel Stoleriu, Rudolf Hatz, Christian P. Schneider, Jürgen Behr, Anne Hilgendorff, Richard Scheltema, Herbert B. Schiller

OA669 Transcriptional characterization suggests accelerated epithelial differentiation in Trisomy 21 Lungs
Soula Danopoulos (Torrance, United States), Soumyaroop Bhattacharya, Caroline Cherry, Gail Deutsch, Thomas Mariani, Denise Al Alam

OA670 A single-cell atlas of human fetal lung development between 14 and 19 weeks of gestation.
Laurent Renesme (Talence, France), Flore Lesage, David P Cook, Shumeei Zhong, Satu M Hanninen, Olli Carpen, Ivana Miziaková, Bernard Thebaud

OA671 Late Breaking Abstract - Gene expression and DNA methylation changes induced by Mepolizumab in the nasal epithelium in severe asthma
Kamini Rakkar (Nottingham, United Kingdom), Vik Lam Pang, Prityraj Rajasekar, Michael A Portelli, Robert Hall, Rachel L Clifford, Dominick Shaw, Ian Sayers

OA672 Discussion
All Speakers

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**Session 100**

Oral presentation: Best abstracts on tobacco, nicotine and cannabis

**Session 100**

<table>
<thead>
<tr>
<th>Disease(s):</th>
<th>Airway diseases</th>
<th>Thoracic oncology</th>
<th>Pulmonary vascular diseases</th>
<th>Respiratory critical care</th>
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<tr>
<td>Method(s):</td>
<td>Public health</td>
<td>Cell and molecular biology</td>
<td>Epidemiology</td>
<td>Physiology</td>
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<tr>
<td>Chairs:</td>
<td>Sofia Belo Ravara (Covilhã, Portugal), Paraskevi Katsaounou (Athens, Greece)</td>
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OA673 Heated tobacco products induced IL-8 overexpression with increased nicotinic acetylcholine receptor in human monocyte THP-1 cells
Hideki Inoue (Tokyo, Japan), Mayumi Yamamoto, Tetsuya Homma, Kaoru Mochizuki, Hitoshi Ikeda, Takaya Ebato, Yoshitaka Uchida, Kuniki Hirai, Shin Ohta, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

OA674 Heated Tobacco Products – are they safe alternative for traditional cigarettes?
Paulina Majek (Katowice, Poland), Mateusz Jankowski, Jan Eugeniusz Zejda, Grzegorz Brożek
OA675  Relationship of smoking with current and future social isolation and loneliness: 12-year follow-up of 8,780 older adults in England
Keir E. J. Philip (London, United Kingdom), Feifei Bu, Michael Polkey, Jamie Brown, Andrew Steptoe, Nicholas Hopkinson, Daisy Fancourt

OA676  Prevalence and demographics of marijuana users in a Lung Cancer Screening cohort
Aymn Bhamani (London, United Kingdom), Jennifer L Dickson, Carolyn Horst, Sophie Tisi, Helen Hall, Andrew Creamer, Ruth Prendecchi, John Mccabe, Samantha L Quaife, Fanta Bojang, Dominique Arancon, Kylie Gyertson, Anne-Marie Mullin, Jonathan Teague, Laura Farrelly, Allan Hackshaw, Sam M Janes

OA677  Novel messages on cigarette sticks and dissuasive cigarettes in smoking cessation and prevention
Giannis Karagiannidis (Athens, Greece), Emmanouil Smyrnakis, Anna-Bettina Haidich, Athanasia Pataka

OA678  Parental smoking predicts teenage smoking and e-cigarette use in Ireland—a longitudinal study
Salome Sunday (Blackpool, Ireland), Luke J. Clancy, Joan Hanafin

OA679  Particles emissions from a Heated Tobacco Product using sticks having four different flavours
Efthymios Zervas (Patra, Greece), Niki Matsouki, Chara Tsipis, Manos Konstantinidis, Paraskevi Katsaounou

OA680  Gender differences in teenage e-cigarette prevalence and predictive variables
Joan Hanafin (Dublin, Ireland), Salome Sunday, Luke Clancy

OA681  Impact of chewing bags, e-cigarettes, and combustible cigarettes on small airways and arterial stiffness
Annabelle Susann Hauck (Lübeck, Germany), Isabel Buchwald, Henrik Watz, Frederik Trinkmann, Daniel Drömann, Klaas Frederik Franzen

OA682  Late Breaking Abstract - Patient sentiments on tobacco industry ownership of respiratory therapies: A community survey
Ruth Tal-Singer (Media, United States), Murali Krishna Paglou, Linda Walsh, Tim Deuby, Karin Hoth, Victor Gascon, Susanne Hintringer, Nicole Hass, Tonya Winders, Lucy Morgan, Byron Thomashow, David Mannino

OA683  Discussion
All Speakers

8L  09:45 - 11:00
Session 101

OA684  Can early lung function measurement predict baseline lung allograft dysfunction (BLAD)?
Nour Hanafi (Toronto, Canada), Anastasia Vasilieva, Joyce Wu, Clodagh Ryan, Chung-Wai Chow, John Matelkis

OA685  Characterization of chronic lung allograft dysfunction (CLAD) at time onset using respiratory oscillometry (Osc)
Anastasia Vasilieva (Toronto, Canada), Nour Hanafi, Ella Huszti, Cynthia Nohra, Natalia Belousova, Joyce K. Y. Wu, Clodagh Ryan, Chung-Wai Chow

OA686  LSC - 2022 - Mapping the Immune Response Diversity after Murine Lung Transplantation

OA687  JAK-STAT pathway is upregulated in CLAD

OA688  Detection of bacterial colonization in lung transplant recipients using an electronic nose
Nynke Wijbenga (Rotterdam, Netherlands), Nadine L. A. De Jong, Rogier A. S. Hoek, Bas J. Mathot, Leonard Seghers, Daniel Bos, Olivier C. Manintveld, Merel E. Hellemons

OA689  Upper tract microbiome modifications after lung transplantation and its impact in chronic lung allograft dysfunction
Victoria Ruiz De Miguel (Barcelona, Spain), Olafit Khannous, Cristina Berastegui, Kharina Loor, Mario Culebras, Maria Deu, Chaiyavanh Mannichanh, Alba Santiago, Berta Saez-Gimenez, Susana Gomez-Olles, Encarna Varela, Manuel Lopez-Meseguer, Eva Revilla-Lopez, Victor Monforte, Antonio Roman, Toni Gabaldon
### Session 102 (09:45 - 11:00)

**Mini symposium: Update on nontuberculous mycobacterial pulmonary diseases**

**Aims:** to present and discuss the state of the art in nontuberculous mycobacteria, considering recent evidence and recently published guidance documents.

**Disease(s):** Respiratory infections

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

**Tag(s):** Clinical

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

**Chairs:** Raquel Duarte (Porto, Portugal), James D. Chalmers (Dundee (Angus), United Kingdom)

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<th>Time</th>
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<tr>
<td>09:45</td>
<td>Consensus management recommendations for less-common nontuberculous mycobacterial pulmonary diseases</td>
<td>Christoph Lange (Borstel, Germany)</td>
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<tr>
<td>10:00</td>
<td>How to deal with underlying host factors</td>
<td>Claire Andrejak (Amiens, France)</td>
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<td>10:15</td>
<td>New drugs: status, gaps and future</td>
<td>Jakko van Ingen (Nijmegen, Netherlands)</td>
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<td>10:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Session 103 (10:00 - 10:30)

**Guidelines session: Idiopathic pulmonary fibrosis: an update of diagnosis and treatment recommendations**

**Official ATS/ERS/JRS/ALAT Clinical Practice Guidelines**

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Medical Student, Physician in Pulmonary Training, Clinical researcher, General practitioner

**Chairs:** Andrew Bush (London, United Kingdom)

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<th>Time</th>
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<tr>
<td>10:00</td>
<td>Discussion and Q&amp;A</td>
<td>Ganesh Raghu (Seattle, United States), Maria Molina Molina (Barcelona, Spain)</td>
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### 10:30 - 11:15

**INDUSTRY SKILLS LAB WORKSHOP**

SEE PAGE 1
Skills workshop: SW2 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls in exercise, muscle and sleep assessment

**Aims:** To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.

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

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

**Tag(s):** Clinical

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

**Chairs:** Chair to be confirmed

10:40  Introduction

10:40  Cardiopulmonary exercise testing: breathing patterns and dynamic hyperinflation  
Michele Schaeffer (Leuven, Belgium)

10:40  Respiratory and locomotor muscle testing in clinical practice  
Samuel Verges (Grenoble, France)

10:40  From different pathophysiological traits revealed by polysomnography to treatment indications or combination of therapies  
Manuel Sanchez De La Torre (Lleida, Spain)

10:40  Implementation, titration and follow-up of positive airway pressure in patients with obstructive sleep apnoea  
Athanasia Pataka (Thessaloniki, Greece)

Guidelines session: Transbronchial (cryo)biopsy and surgical lung biopsy in interstitial lung diseases

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

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

**Tag(s):** Clinical

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

**Chairs:** Andrew Bush (London, United Kingdom)

10:45  Discussion and Q&A  
Daniël Korevaar (Amsterdam, Netherlands), Venerino Poletti (Forlì, Italy)

Clinical trials session: ALERT 1: COPD and hospital management

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Apostolos Bossios (Stockholm, Sweden), Emer Kelly (Dublin 4, Ireland)

**Discussants:** Dave Singh (Manchester, United Kingdom), Frits M.E. Franssen (Horn, Netherlands)

**RCT Abstract - Dose response of icenticaftor in patients with COPD and chronic bronchitis on triple inhaled therapy**

**RCT710**  
Frits M.E. Franssen (Horn, Netherlands), Fernando J. Martinez, Jadwiga A. Wedzicha, Joerg H. Eckert, Barbara Knorr, Rutvick Parlikar, Ana-Maria Tanase, Christian Gessner
RCT Abstract - Point of care blood eosinophil guided oral prednisolone for COPD exacerbations: a multi-centre double blind randomised controlled trial (The STARR2 trial)
Mona Bafadhel (London, United Kingdom), Sanjay Ramakrishnan, Helen Jeffers, Beverley Langford-Wiley, Joanne Davies, Mahdi Mahdi, Christine A'Court, Ian Binnian, Stephen Bright, Simon Cartwright, Robin Fox, Richard Ek Russell

RCT Abstract - Bronchodilators in Symptomatic Tobacco-exposed Persons with Preserved Spirometry for the RETHINC Study Group

RCT Abstract - Bronchodilators in Symptomatic Tobacco-exposed Persons with Preserved Spirometry for the RETHINC Study Group

RCT Abstract - High-flow nasal cannula versus noninvasive ventilation in the prevention of escalation to invasive mechanical ventilation in patients with acute hypoxic respiratory failure
Gamal Rabie Agmy (Assiut, Egypt), Mohamed Adam, Manal Elkhawaga, Entsar Hsanen

Late Breaking Abstract - Bronchodilators in Symptomatic Tobacco-exposed Persons with Preserved Spirometry for the RETHINC Study Group

Journals session: The best of the European Respiratory Journal in 2022
Aims: to highlight the best articles published in the European Respiratory Journal (ERJ) over the past 12 months; to provide an up-to-date review of the latest developments in three key respiratory fields, namely, interstitial lung disease, COVID-19 and respiratory epidemiology.

Disease(s): Interstitial lung diseases Respiratory infections
Method(s): Cell and molecular biology Epidemiology General respiratory patient care
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: Anh Tuan Dinh-Xuan (Paris, France), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

8B - live streamed

Session 114 11:15 - 12:45

11:15 Interstitial lung disease
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

11:30 COVID-19
Tobias Welte (Hannover, Germany)

11:45 Respiratory epidemiology
Isabella Annesi Maesano (Montpellier, France)

12:00 The ERJ: past, present and future
Martin Kolb (Hamilton (ON), Canada)

12:15 Discussion and Q&A
All Speakers
**8C - live streamed**  
**Session 115**  
**11:15 - 12:45**  

**State of the art session: Thoracic oncology**  

**Unravelling lung cancer mazes: a call for an aggressive approach**

**Aims:** to highlight the latest developments and controversies in lung cancer management; to cover four key areas in which critical new observations have been made in the past year; to provide consolidated updates in order to improve clinical management of lung cancer patients.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology  
Palliative care  
Surgery

**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, Journalist

**Chairs:** Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)

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**11:15**  
**Patient's testimony**
Seamus Cotter (Clarecastle, Ireland)

**11:20**  
**Does aggressive surgical management of oligometastatic disease pay off?**
Stefano Elia (Roma (RM), Italy)

**11:35**  
**Recent advances in novel targeted therapies for non-small cell lung cancer and implications for current practice**
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

**11:50**  
**Incorporating immunotherapy in early-stage lung cancer management**
Joanna Chorostowska-Wynimko (Warsaw, Poland)

**12:05**  
**Dyspnoea management in lung cancer: Pandora's box?**
Irene Higginson (London, United Kingdom)

**12:20**  
**Discussion and Q&A**
All Speakers

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**8G - live streamed**  
**Session 116**  
**11:15 - 12:45**  

**Hot topics: Launch of “Lung Facts”**  

**Using data to create a transformation in respiratory healthcare**

**Aims:** to launch and present the findings of the new "Lung Facts". As a major step forwards from the European Lung White Book, published >10 years ago, Lung Facts is a web-based resource presenting all the key epidemiological and economic data for key respiratory conditions across WHO Europe and by each WHO Europe country, which will now be updated regularly. "Lung Facts" will provide a key advocacy tool in the context of the International Respiratory Coalition (IRC) to raise the profile of lung health following the devastating impact of the COVID-19 pandemic on respiratory health across the globe.

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

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Judith Garcia Aymerich (Barcelona, Spain), Tonya Winders (Hendersonville, United States)

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**11:15**  
**What we know and where the gaps are**
Guy F. Joos (Ghent, Belgium)

**11:30**  
**The economics**
Matthew Franklin (Sheffield, United Kingdom)

**11:45**  
**Areas for action**
Mina Gaga (Athens, Greece)

**12:00**  
**Having a national impact**
Chantal Raherison-Semjen (Pointe-à-Pitre, Guadeloupe)

**12:15**  
**Discussion and Q&A**
All Speakers
Symposium: Lung function testing from preschool age to adolescence: are we done with spirometry?

Aims: to update the knowledge of the audience about different lung function tests applicable from preschool age to adolescence by reviewing the most recent technical changes and the clinical use of these techniques; to explore the accuracy of respiratory mechanics measurements in assessment of bronchial reactivity in asthmatic children, the clinical applications of oscillometry in children, the swift ascent of the measurement of ventilation heterogeneity as a primary outcome in cystic fibrosis patients and the accuracy of new developments in spirometry that have been accelerated by the ongoing COVID-19 pandemic.

Disease(s): Airway diseases, Paediatric respiratory diseases

Method(s): Epidemiology, Physiology, Pulmonary function testing

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist

Chairs: Monika Gappa (Düsseldorf, Germany), Alexander Möller (Zürich, Switzerland), Angela Zacharasiewicz (Wien, Austria)

11:15 The interrupter technique: from reference values to bronchial reactivity assessment
Nicole Beydon (Paris, France)

11:30 Oscillometry in children: from reference values to clinical use
Enrico Lombardi (Florence, Italy)

11:45 Multiple breath washout techniques: from the technical consensus statement to clinical use
Paul Robinson (Sydney (NSW), Australia)

12:00 Spirometry: from implications of new recommendations to home-based spirometry during pandemics
Graham Hall (Sydney, NSW, Australia)

12:15 Discussion and Q&A
All Speakers

Mini symposium: Learning is a treasure that follows its owner everywhere
Yernault lecture session

Aims: to illustrate how the joy of learning, distinct curiosity and work endurance advance careers.

Chairs: Marion Delcroix (Leuven, Belgium), Richard Costello (Dublin 9, Ireland)

11:15 Introduction
Richard Costello (Dublin 9, Ireland)

11:25 From respiratory research to clinical needs: the role model illustrates the way
Silvia Ulrich (Zürich, Switzerland)

11:45 Education and interdisciplinary research in a globalised world: physicians and allied health professionals’ view
Mona Lichtblau (Zürich, Switzerland), Stéphanie Saxer (Zürich, Switzerland)

12:00 Discussion and Q&A
All Speakers

12:20 Education and Teaching awards
Omar S. Usmani (London, United Kingdom), Anita Simonds (London, United Kingdom), Stylianos Loukides (Athens, Greece), Jayesh M. Bhatt (Nottingham (Nottinghamshire), United Kingdom), Irene Steenbruggen (Zwolle, Netherlands)

Oral presentation: COPD treatment: new mechanisms and novel insights

Disease(s): Airway diseases

Method(s): Epidemiology, Palliative care, General respiratory patient care, Cell and molecular biology, Pulmonary rehabilitation, Endoscopy and interventional pulmonology

Chairs: Alexander Mathioudakis (Stockport, United Kingdom), Chair to be confirmed
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**Oral presentation: Advances in epidemiology, diagnosis and treatment of tuberculosis**

**Disease(s):** Airway diseases

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

**Chairs:** Ayşegül Fusun Öner Eyüboğlu (Ankara, Turkey), Marc Lipman (London, United Kingdom)

**OA750**

*Long-term mortality of post-tuberculous survivors in Korea: a population-based longitudinal study*

Hayoung Choi (Seoul, Republic of Korea), Hyun Lee, Kyungdo Han, Sang Hyuk Kim, Sang Hyun Park, Hyung Koo Kang, Jang Won Sohn, Dong Wook Shin

**OA755**

*Effect of prevention therapy for subclinical tuberculosis in child household contacts*

Qi Tan (Nanjing (Jiangsu), China), Chuan-Chin Huang, Mercedes Becerra, Roger Calderon, Silvia Chiang, Carmen Contreras, Leonid Lecca, Jimenez Judith, Perez-Velez Carlos, Claudia Roya-Pabon, Rosa Yataco, Hai Xu, Zibiao Zhang, Megan Murray

**OA757**

*Culture conversion at 2 months among patients with rifampicin-susceptible pulmonary tuberculosis: a prospective cohort study*

Jinsoo Min (Seoul, Republic of Korea), Hyung Woo Kim, Ju Sang Kim, Ki Man Lee, Sun-Hyung Kim, Sung Soo Jung

**OA758**

*A new fully automated IGRA solution for the diagnosis of M.tb infection*

Ali Esmail (Cape Town, South Africa), Richard Meldau, Linda Mbuthini, Marilyne Dupin, Didier Poirault, Keertan Dheda
OA759 Spirometry and radiological sequelae in post pulmonary tuberculosis: A systematic review
Ayush Goel (New Delhi, India), Animesh Ray, J Kirtana

OA760 Symptom Burden After Completion of Tuberculosis Therapy in REMoxTB
Conor Tweed (London, United Kingdom), Genevieve Wills, Jamilah Meghji

OA761 High prevalence of COPD despite successful tuberculosis treatment
Louis Yeung (Sydney, Australia), Zhixin Liu, Kenneth Ng, Anthony Byrne

OA762 Using whole genome sequencing to investigate tuberculosis outbreaks in a large UK city: examining the effectiveness of a stone in pond contact tracing approach
Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Tom Marshall, Emmanouil Tranos, Hanna Kaur, Esther Robinson, Grace Smith, Martin Dedicoat

OA763 Drivers determining active TB screening yield in different European screening programmes: a comparative analysis.
Dominik Zenner (London, United Kingdom), Daniella Brals, Connie Erkens, Alberto Matteeli, Joanna Nederby Öhd, Dee Menezes, Gerard De Vries, Morris Muzymba, Job Van Rest, Valentina Marchese, Robert Aldridge, Ineke Spruijt, John Were, Sarah Anderson, Knut Lönroth, Ibrahim Abubakar, Frank Cobelens

OA764 Discussion
All Speakers

OA765 Cone beam CT is essential for worthwhile navigation bronchoscopy of small lung nodules
Laurien Reinders (Rotterdam, Netherlands), Georgios Sotiropoulos, Ralitsa Baranowski, Lucía Fonseca, Sander Langereis, Kelvin Lau

OA766 Robotic-assisted navigation bronchoscopy with needle-based confocal laser endomicroscopy (nCLE) for real-time lung cancer detection
Tess Kramer (Amsterdam, Netherlands), Christopher Manley, Rohit Kumar, Lizzy Wijmans, Martijn De Bruin, Eric Ross, Yulan Gong, Hormoz Ehyia, Peter Bonta, Jouke Annema

OA767 The Archimedes navigation system for the diagnosis of peripheral pulmonary nodule. Report on initial experience.
Rachid Tazi Mezalek (Barcelona, Spain), Pere Serra Mitjà, Carmen Centeno Clemente, Carmen Fernandez Arias, Eduard Barrio Herraz, Felipe Andreo Garcia, Marta Avila, Eva Castella, Ignasi Guasch Arriaga, Jorge Bechini Bernard, Jorge Abad Capa, Antoni Rosell Gratacós

OA768 Four year outcomes of bronchoscopic microwave ablation of peripheral lung nodules
Kelvin Lau (London, United Kingdom), Kornelija Macevicuiciute, Kire Temov, Ralitsa Baranowski

OA769 Cryo- versus surgical lung biopsy for diagnosing interstitial lung disease (ILD): the COLD RCT
Kirsten Kalverda (Amsterdam, Netherlands), Maarten K. Ninaber, Jelle R. Miedema, Jürgen Hölters, Chris Dickhoff, Merijn Kant, Johannes M.A. Daniels, Lizzy Wijmans, René E. Jonkers, Daniel A. Korevaar, Peter I. Bonta, Jouke T. Annema

OA770 Systematic evaluation of the pulmonary arteries during endobronchial ultrasound (EBUS) in patients with suspected lung cancer a prospective cohort trial.
Amanda Juul (Odense S, Denmark), Christian B. Laursen, Alice Vangerschov Christophersen, Arman Arshad, Stefan Möller Luef, Vasiliki Panou, Jens Paaby, Julie Gellert Larsen, Jacob Reimer, Casper Falster

OA771 Bronchial rheoplasty for chronic bronchitis: initial results from a european registry study with RheOx
Kaid Darwiche (Essen, Germany), Hanna Zellerhoff, Felix Herth, Judith Brock, Michael Meillinger, Irene Sperk, Arschang Valipour

OA772 CONVERT Trial: Collateral ventilation conversion by closure of fissure defect with Aeriseal Foam for BLVR with Zephyr valves
Michela Bezzi (Firenze (FI), Italy), Guido Levi, Kaid Darwiche, Thomas Egenod, Nicolas Guibert, Daniel Franzen, Felix J Herth, Dirk-Jan Slesbos, Alan Kirk, Alex Yang, Dennis Mchugh, Narinder Shargill, Samuel V Kemp, Pallav L Shah

OA773 Discussion
All Speakers
Online skills lab: Patient ventilator asynchrony (PVA) from ICU to home

**Aims:** To describe major PVA in the intensive care, its clinical consequences and how to treat them; To describe major PVA during Home mechanical ventilation and propose a specific algorithm; Using case vignettes to provide guidance to understand PVA and how to solve them.

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

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<th>Event</th>
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<td><strong>Introduction</strong></td>
<td>All Speakers</td>
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<tr>
<td>11:35</td>
<td>PVA in intensive care: Do we know what to do now?</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>11:50</td>
<td>PVA at home: How and what to check in a “lifetime ventilation”?</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
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<td>12:05</td>
<td>Let’s set the ventilator treating asynchronies: Do all the roads lead to Rome?</td>
<td>Jesus Gonzalez Bermejo (Montlignon, France)</td>
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<td>12:20</td>
<td><strong>Q&amp;A</strong></td>
<td>All Speakers</td>
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**8N Session 128** 12:45 - 14:00

Oral presentation: Malignant pleural effusion and mesothelioma: diagnosis and optimal management

**Disease(s):** Thoracic oncology

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

**Chairs:** Selina Tsim (Glasgow (Glasgow), United Kingdom)

- OA779 Anatomical and symptom changes in malignant pleural effusion using 4-Dimensional MRI
  - Geeshath Jayasekera (Glasgow (Glasgow), United Kingdom), Geoffrey Martin, Rosemary Woodward, John Foster, Selina Tsim, Kevin Blyth

- OA780 Global trends in mesothelioma incidence, mortality and disability adjusted life years for the period 1990-2019
  - Sotirios Zarogianni (Larisa, Greece), Erasmia Rouka, Chrissi Hatzoglou, Konstantinosourgoulouinis

- OA781 Caring for indwelling pleural catheters: self-management vs district nursing care
  - Vineeth George (Oxford, United Kingdom), Nicky Russell, Anand Sundaralingam, Bavidra Kulendrajah, Eihab Bedawi, Radhika Banka, Mohammed Ellayeh, Robert Hallifax, Najib Rahman

- OA782 Anatomical and symptom changes in malignant pleural effusion using 4-Dimensional MRI
  - Geeshath Jayasekera (Glasgow (Glasgow), United Kingdom), Geoffrey Martin, Rosemary Woodward, John Foster, Selina Tsim, Kevin Blyth

- OA783 Global trends in mesothelioma incidence, mortality and disability adjusted life years for the period 1990-2019
  - Sotirios Zarogianni (Larisa, Greece), Erasmia Rouka, Chrissi Hatzoglou, Konstantinosourgoulouinis

- OA784 Malignant Pleural Mesothelioma in situ is a reality: how to handle this?
  - Federico Raveglia (Monza, Italy), Riccardo Orlandi, Francesca Bon, Piergiorgio Solli, Giuseppe Cardillo, Lidia Librett, Antonio Tuoro, Enrico Mario Cassina, Edward Caruana, Marco Scarci

- OA785 Analysis of patients with non-specific pleuritis from the International Collaborative Effusion (ICE) database: an ERS Clinical Research Collaboration

- OA786 Defining a new diagnostic biomarker panel for malignant pleural mesothelioma using a novel proteomic technique
  - Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, Marnix Vuylsteke, Daria Fijalkowska, An Staes, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote
OA787 Reflecting real-world patients in mesothelioma research: the pragmatic, multi-centre ASSESS-meso cohort
Ruairi J H Conway (Bristol, United Kingdom), Sonia Patole, Anna J Morley, Jenny Symonds, Deborah Walton, Emma Tucker, Charles Conins, Andrew Low, Janet Probets, John E Harvey, William Cooper, Anthony Edey, Kevin G Blyth, Nick A Maskell, Anna C Bibby

OA788 Discussion
All Speakers

8F Session 129 12:45 - 14:00

Oral presentation: Expanding the insight into COVID-19 dyspnoea

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

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

Chairs : Sam Bayat (Grenoble, France), Caroline Jolley (London, United Kingdom)

Paulina Barria (Santiago, Chile), Maria Mozó, Gonzalo Mendoza, Carlos Cerra, Jorge Manriquez, Mario Arellano

OA790 Dysfunctional breathing after COVID-19: symptoms, functional impact and quality of life
Selina Loew (Switzerland), Leon Genecand, Marco Attarelli, Grégoire Gex, Elzbeta Binkova, Isabelle Frésard, Pierre-Olivier Bridevaux

OA791 Cardiopulmonary exercise testing and ventilatory efficiency in long COVID-19: 15 months follow-up.
Daniele Pianmonti (Roma (RM), Italy), Daniela Pellegrino, Arianna Sanna, Luigi Panza, Roberto Flore, Altea Lecci, Giulia Lo Muzio, Emanuele Messina, Valeria Panbianco, Carlo Catalano, Paolo Palange

OA792 CPET ventilatory characteristics of dysfunctional breathing in long COVID patients with persistent dyspnea
Pierre-Olivier Bridevaux (Sion, Switzerland), Marco Attarelli, Léon Genecand, Selina Loew, Elzbeta Binkova, Grégoire Gex, Isabelle Frésard

OA793 Dyspnoea in patients presenting post-COVID-19 respiratory clinic not fully explained by lung function impairment and chest radiography abnormalities.
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Jebin Roger, Barney Isaac, Divya Mangal, Anitha Barney, Richa Gupta, Devasahayam J Christopher

OA794 Virtual reality intervention alleviates dyspnea in patients recovering from COVID pneumonia
Sophie Betka (Genève, Switzerland), Kannape Oliver, Fasola Jemina, Lance Florian, Cardin Sylvain, Schmid Aline, Similowski Thomas, Soccal Paola, Herbelin Bruno, Adler Dan, Blanke Olaf

OA795 Persistent dyspnea six months after SARS-CoV-2 pneumonia: what are the contributing factors?
Leila Douik El Gharbi (Ariana, Tunisia), Imen Sahnoun, BOUGACHA MARWA, Ines Moussa, Siwar Rejab, Salma Mokkadem, Rihab Jebali, Saloua Jameleddine

OA796 Persistent exertional dyspnea and perceived exercise intolerance after mild Covid-19: a critical role for breathing dysregulation?
Bram van den Borst (Nijmegen, Netherlands), Esther L. van Voorthuizen, Hanneke A.C. Van Helvoort, Jeannette B. Peters, Michel M. Van Den Heuvel

OA797 A pattern of respiratory dysfunction in mild cases of post-COVID-19 athletes: an emerging hypothesis
Vasileios Stavrou (Larissa, Greece), Stylianos Boulitas, George Vavougios, Kyriaki Astara, Ioannis Papaioannou, Eirini Papayianni, Vasileios Mitakos, Tourlakopoulos Konstantinos, Kalabakas Konstantinos, Karagiannis Dimitrios, Daniil Zoe, Basdeikis George, Gourgoulisian Konstantinos

OA798 Late Breaking Abstract - Blood haemoglobin and pulse oximetry oxygen saturation measurement error
Dominick Shaw (Nottingham (Nottinghamshire), United Kingdom), Colin Crooks, Joe West, Joanne Morling, Mark Simmonds, Irene Juurlink, Steve Briggs, Simon Cruickshank, Susan Hammond-Pears, Timothy Card, Andrew Fogarty

OA799 Discussion
All Speakers

8L Session 130 12:45 - 14:00

Oral presentation: New trends in exercise, physical activity and behavioural changes in COPD, ILD and asthma

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

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

Chairs : Thierry Troosters (Leuven, Belgium), Anne Holland (Fitzroy North (VIC), Australia)
Rapid Access Rehabilitation after exacerbations of COPD – an international Delphi study
Ana Oliveira (Hamilton, Canada), Shirley Quach, Jan Walker, Dina Brooks, Roger Goldstein

Does an 8-week pulmonary rehabilitation (PR) program have equivalent outcomes to a 12-week program in COPD? A randomised controlled trial.
Joshua Bishop (Balmain, Australia), Lissa Spencer, Tiffany Dwyer, Zoe Mckeough, Amanda Mcanulty, Jennifer Alison

Clusters of functional status in COPD: an exploratory analysis
Guilherme Rodrigues (Aveiro, Portugal), Vera Afreixo, Sara Souto-Miranda, Filipa Machado, Vânia Rocha, Maria A. Mendes, Vitória Martins, Paula Simão, Alda Marques

The importance of feeling in control - people with COPD's experiences regarding maintaining or increasing physical activity when using an eHealth tool. A grounded theory analysis.
Sarah Marklund (Umeå, Sweden), Ann Sörlin, Tobias Stenlund, Karin Wadell, Andre Nyberg

Hybrid pulmonary rehabilitation versus conventional outpatient pulmonary rehabilitation: a propensity-matched analysis
Marieke Wuyts (Laeken, Belgium), Astrid Blondeel, Sofie Breuls, Tim Vanhoutte, Veronica Barbier, Amber Beersaerts, Lode Claes, Iris Coosemans, Nele Vandenberghe, Heleen Demeyer, Thierry Troosters, Wim Janssens, On Behalf Of Leuven Pulmonary Rehabilitation Team Uz Leuven

Physical activity coaching in patients with ILD: a pilot study
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Jonas Yserbyt, Wim Janssens, Wim Wuysts, Heleen Demeyer, Thierry Troosters

Anxiety and depression symptoms after pulmonary rehabilitation in people with interstitial lung disease: responders and non-responders
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Eduardo Samuel Santos, Guilherme Rodrigues, Sara Souto-Miranda, Sara Almeida, Vânia Rocha, Pedro G. Ferreira, Maria Aurora Mendes

ilIFE-Lifestyle Integrated Functional Exercise for people with interstitial lung disease: a feasibility study
Càtia Paixão (Aveiro, Portugal), Pedro Ferreira, M Aurora Mendes, Dina Brooks, Alda Marques

Behavior change to increase physical activity reduces sleep disturbances in asthma: A randomized controlled trial
Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Patricia Freitas, Natalia Febrini Passos, Alberto Cukier, Regina Carvalho-Pinto

Late Breaking Abstract - Prognostic value of the 1-minute sit-to-stand test on postoperative complications in people with lung cancer elected for lung surgery
Kirsten Quadflieg (Hasselt, Belgium), Rachael Higgins, Maarten Criel, Marc Daenen, David Ruttens, Michel Thomeer, Andrew Maiorana, Chris Burtin, Vinicius Cavalheri

Discussion
All Speakers

**Studio - online**

**Session 131**

Online skills lab: Paediatric lung function and sleep measurements

Aims: to describe the physiology, indications, technical aspects and criteria for quality acceptability of lung function and sleep measurements; to discuss the interpretation of different lung function tests and results and polysomnography fragments and results; to discuss the clinical implication of lung function and polysomnography results using clinical cases.

**Target audience**: Paediatrician

**Chairs**: Refika Hamutcu Ersu (Ottawa, Canada), Nicole Beydon (Paris, France)

| 13:00 | Introduction | All Speakers |
| 13:05 | Static lung volumes and spirometry measurements | Christiane Lex (Goettingen, Germany) |
| 13:18 | Clinical case: spirometry and a bronchodilator | Christiane Lex (Goettingen, Germany) |
| 13:25 | Multiple breath washout | Paul Robinson (Sydney (NSW), Australia) |
| 13:38 | Clinical case: multiple breath washout technique in children | Paul Robinson (Sydney (NSW), Australia) |
Scoring sleep and respiratory events using polysomnography
Stijn Verhulst (Antwerpen, Belgium)

Clinical case: voting on polysomnography tracings
Stijn Verhulst (Antwerpen, Belgium)

Sleep studies
Hui Leng Tan (London, United Kingdom)

Clinical cases: differences between polysomnography and polygraphy
Hui Leng Tan (London, United Kingdom)

Conclusion
All Speakers

13:00-14:00
INDUSTRY LUNCHTIME SYMPOSIUM
SEE PAGE 1

TP-1 in thematic poster
Session 139
13:00 - 14:00
area

Thematic poster: Biomarkers in COVID-19

Disease(s): Respiratory critical care, Airway diseases, Interstitial lung diseases
Method(s): Respiratory intensive care, Cell and molecular biology, Physiology, General respiratory patient care, Public health, Pulmonary function testing, Epidemiology

PA856 The platelet-to-lymphocyte ratio (PLR) versus Neutrophil-to-lymphocyte ratio (NLR) in prediction of Coronavirus disease-19 outcome
Luci Suliman (Jansoura, Egypt), Mona Elwasefy, Nesrine Saad Farrag, Heba Waggih Abdelwahab

PA857 Predictive role of some biomarkers in the course of COVID-19 infection
Pavlina Nikolova Glogovska (Pleven, Bulgaria), Elena Borisova, Snezhanka Ivankovska, Plamen Pavlov

PA858 Evaluation of lipid profile in patients with COVID-19 infection
Ali Abdelaziz (Mimia, Egypt), rasha abdelfaithah, Mohammad O. Abdel Aziz, Mahmoud M Higazi, Noha M Abdulllah, Hany Taha Askary

PA859 The evaluation of Serum angiotensin-converting enzyme 2 (ACE2) levels and its relationship with clinical outcome in patients with Coronavirus disease 2019 (COVID-19)
Seyed mehdi Hashemi (Kerman, Islamic Republic of Iran), Mitra Samareh Fekri, Mahdi Hosseinib, Amir Baniasad, Anahita Behzadi, Sajjadeh Movahedinia

PA860 Nasal swab sampling for antigen test identifies COVID-19 well in all ages
Maria Juusela (Espoo, Finland), Juha M Koskinen, Venla Aaltonen, Matilda Sipilä, Seppo Sarna, Janne O Koskinen, Erik Qvist

PA861 Is it really so important to study humoral immunity to SARS-CoV-2?
Yuliia Huba (Dnipropetrovsk, Ukraine), Olena V. Myronenko, Oxana V. Plekhanova, Hanna A. Garagulya

PA862 Outcome prediction in hospitalized COVID-19 patients: what is the prognostic value of organ failure biomarkers?
Kateryna Gashynova (Dnipro, Ukraine), Olha V. Rudakova, Viktorya Rodionova, Yelyzaveta Lysak

PA863 RELATIONSHIP BETWEEN KREBS VON DEN LUNGEN-6 (KL-6) LEVELS AND THE SEVERITY OF PATIENTS OF A POST-COVID MULTIDISCIPLINARY UNIT

PA864 Hematological and hepatic alterations as predictors of mortality in patients hospitalized by SARS-COV-2
Laura Cornejo-Cornejo (Mexico City, Mexico), Alejandra Rios-Pera, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Jorge Aguilar-Meza, Carlos Marquez-Cordero, Mariana Salatiera-Escobar, Iris Lopez-Vazquez, Carlos Sanchez-Moreno, Juan Orcozo-Gutierrez, Benigno Valderrabano-Salas, Robinson Robles-Hernandez, Rafael Hernandez-Zenteno, Angelia Jimenez-Valentin, Maria Salgado-Fernandez
Severe lymphocyte dysfunction and impaired cellular immune response as a consequence of COVID-19
Katarzyna Płewka-Barcik (Warsaw, Poland), Karolina Aleksandrowicz, Klaudia Porebska, Robert Zdanowski, Jacek Z. Kubiaik, Krzysztof Klos, Andrzej Chciałowski

Neutrophil-to-lymphocyte ratio (NLR) as a predictor of survival in COVID-19-associated pneumonia patients (pts)
Daria Koval (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva

COMPARISON OF CARDIAC BIOMAKERS PREDICTIVE ROLE IN COVID-19 PNEUMONIA
Olha Shchudro (Dnipro, Ukraine), Mariia Krykhtina, Kseniia Bielosludtseva, Lyudmila Konopkina

TIMING AND PREDICTORS OF DECANNULATION: COMPARISON BETWEEN COVID-19 AND NO-COVID-19 ARDS
Francesca Cemmi (Peschiera del Garda, Italy), Cinzia Lastoria, Roberta Marra, Federica Fioretti, Abramo Bazza, Manuela Bergonzì, Matteo Vigna, Chiara Mele, Annalisa Carlucci

Abnormal FeNO post COVID-19
Bavithra Vijayakumar (thame (Oxfordshire), United Kingdom), James Tonkin, Christopher M Orton, Leeh Faustino, Isaac Mwita, Jadwiga Wedzicha, Pallav L Shah

Neutrophil-to-lymphocyte ratio (NLR) as a marker of COVID-19-associated pneumonia progression.
Daria Koval (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva

Is lymphopenia a predictive factor of outcomes in COVID-19 patients?
Leila Douik El Gharbi (Ariana, Tunisia), Tasnim Znegui, Imen Sahnoun, Ines Moussa, Sarra Ben Sassi, Chiraz Ksouri, Asma Allouch, Rafik Guerfallah

EXPLORING THE ROLE OF KREBS VON DEN LUNGEN-6 (KL-6) IN SEVERE TO CRITICAL COVID-19: A SINGLE INSTITUTION EXPERIENCE
Vito D'Agnano (S. Vito dei Normanni, Italy), Fabio Perrotta, Filippo Scialò, Francesco Saverio Cerqua, Luigi Aronne, Lidia Atripaldi, Carlo Iadevaia, Grazia Mazzeo, Adriano Costigliola, Andrea Bianco, Cecilia Calabrese

Correlation between vitamin D and anosmia in post acute Covid syndrome clinic
Aoife O'Connor (Rathfarnham, Ireland), Carol Buckley, Mark Griffin, Ahmad Basirat, Joshua Olaniyi, Meabh Monaghan, Seamas Donnelly, Patrick Mitchell

CAT Score Correlates with Lung Function in Post Covid Pulmonary Disease
Saeed Akbar (Gillingham (Kent), United Kingdom), Yee-Ean Ong, Adrian Draper, James Kent Bramer , Raminder Aul

Patient-reported respiratory outcome measures in the recovery of adults hospitalised with COVID-19: A systematic review and meta-analysis
Sophie Middleton (Nottingham, United Kingdom), Christos Chalitsios, Tricia Mckeever, Alex Jenkins, Charlotte Bolton

Multi-ancestral meta-analysis yields novel genetic loci for asthma exacerbations

Respiratory system modeling of impedance on the effect of simulated obstructive apnea in participants with and without asthma
Xiaoshu Cao (North York, Canada), Nasim Montazeri Ghahjaverestan, Behrad Taghibeyglou, Jason H. T. Bates, Azadeh Yadollahi
PA878 
Respiratory muscle strength investigation in severe asthma patients with lung hyperinflation
Galyna Gumeniuk (Kyiv, Ukraine), Yuri Feshchenko, Svitlana Opimakh, Maryna Polianska, Viktoria Ignatieva, Svitlana Moskalenko, Inna Zvol

PA879 
Perimenstrual worsening of asthma: prevalence and clinical outcomes in severe asthma population
Adel H Mansur (United Kingdom), Ali Bahron, Christopher Reilly, Lisa White, Julie Sullivan

PA880 
Sputnum eosinophilia is a useful biomarker for treatment failure of biologics for severe eosinophilic asthma
Torben Smidt-Hansen (Stavtrup, Denmark), Helle Haagensen Andersen, Lena Moelgaard Pedersen, Anne Sofie Bjerrum, Tina Skjold, Rina Poulsen, Soren Bagge Petersen, Hans Jürgen Hoffmann, Johannes Schmid

PA881 
Optimizing adrenal insufficiency screening in severe asthma patients on biologic therapy
Irene Berrar Torre (London, United Kingdom), Kena Simpson, Veronica Greener, Breda Cushen, Pujan Patel

PA882 
Discrepancies between anti-Interleukin5 (anti-IL5) starters from SHARP central registry and eligible patients in clinical trials

PA883 
Identification of plasma fibrinogen-high asthma phenotype
Letizia Valsecchi (Torino, Italy), Andrea Sprio, Andrea Baroso, Martina Sciol, Vitina Carriero, Francesca Bertolini, Antonino Di Stefano, Fabio Luigi Massimo Ricciardolo

PA884 
REAL LIFE FOLLOW-UP OF PATIENTS WITH SEVERE EOSINOPHILIC ASTHMA TREATED WITH RESLIZUMAB.
Cristhian Correa (Madrid, Spain), Katiuska Herminia Liendo Martinez, Francisco Javier De Castro Martinez, Ji Zichen, Luis Puente Maestu, Julia Garcia De Pedro

PA885 
Hand grip strength as a screening tool for frailty in elderly patients with moderate to severe asthma
Ricardo Figueiredo (Feira De Santana (BA), Brazil), Gabriela P. Pinheiro, Vanessa Arata, Maisa F. M. Leal, Cinthia V. N. Santana, Jean Carlos Z. Contreras, José De Bessa Junior, Alvaro A. Cruz

PA886 
Body Mass Composition in asthmatics according to inflammatory phenotypes (SAMBA trial)
Stephanie Ziant (LIEGE, Belgium), Sebastien Louis, Sophie Graff, Catherine Moermans, Monique Henkel, Rita Deroisy, Renaud Louis, Jean-Francois Kaux, Thierry Bury, Florence Schleich

PA887 
Effects of biologics on systemic and airway inflammation in severe asthma: a real-life study
Francesco Ardese (Milan, Italy), Dina Visca, Patrizia Pignatti, Martina Zappa, Rosella Centis, Federico Mattia Oliva, Flavia Rusconi, Ombretta Mentasti, Giovanni Battista Miglioli, Antonio Spanevello

PA888 
Cross-sectional validation of the German version of the Asthma Impairment and Risk Questionnaire (AIRQ)
Frank Kannies (Reinfeld (Holstein), Germany), Marek Lommatzsch, Thomas Schultz, Hartmut Timmermann, Olaf Schmidt, Stefan Heindl, Kerstin Defosse, Hans-Joerg Baumann, Charles Lange, Dana Dirlam, Cesar Ignacio Fernandez-Lazaro, Anja Rudolph, Stephanie Korn

PA889 
Predicting asthma attack risk in real life severe asthma patients on mepolizumab
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Liam Whipday, Taqdees Qureshi, Stephen Fowler

PA890 
Characterising the impact of sex on severe asthma (SA) in the UK Severe Asthma Registry (UKSAR)

PA891 
Risk factors for asthma exacerbations during pregnancy: a systematic review and meta-analysis
Annelies Robijn (New Lambton Heights (NSW), Australia), Marleen Bokern, Megan Bokern, Megan Jensen, Daniel Barker, Katherine Baines, Vanessa Murphy

PA892 
Severe asthma outcomes in patients self-administering biological therapy at home
Leanne Jo Holmes (manchester, United Kingdom), Lynn Elsey, Amelia Simpson, Gael Tavernier, Stephen J Fowler

PA893 
T2 and T3 cytokine expression in asthma with chronic rhinosinusitis
vitina Carriero (Orbassano, Italy), Elisa Arrigo, Francesca Bertolini, Fabio Luigi Massimo Ricciardolo

PA894 
Effects of menopause and fat mass in asthmatic inflammation in female asthmatics
Andriana Papaoannou (Vrilissia (Athens), Greece), Anastasia Papaporfiroyou, Maria Kallieri, Efthychia Papachatzopoulou, Paschalina Goulleka, Georgia Papakaki, Aris Spathis, Petros Bakakos, Spyros Papiris, Stelios Loukides
Clinical, functional, and biological characterization of neutrophilic asthma phenotype and endotypes.
Elisa Arrigo (Orbassano, Italy), Camilla Demasi, Vitina Carriero, Francesca Bertolini, Gino Villetti, Daniela Miglietta, Fabio Luigi Massimo Ricciardolo

Thematic poster: Chronic cough: management and impact on quality of life

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

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

**Chairs:** Alyn Hugh Morice (Cottingham, United Kingdom), Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

PA896
Language and geographical location influences the incidence of chronic cough in the Canadian Longitudinal Study on Aging (CLSA)
Imran Satia (Hamilton, Canada), Alexandra Mayhew, Nazmul Sohel, Om Kurmi, Kieran Killian, Megan O'Connell, Paul O'Byrne, Parminder Raina

PA897
Productive vs non-productive chronic cough associated with worse lung health and higher morbidity and mortality in the general population
Eskild Morten Landt (Koege, Denmark), Yunus Çolak, Børge Nordestgaard, Peter Lange, Morten Dahl

PA898
Impact of mental health and personality traits on the incidence of chronic cough in the Canadian Longitudinal Study on Aging (CLSA)
Imran Satia (Hamilton, Canada), Alexandra Mayhew, Sohel Nazmul, Om Kurmi, Kieran Killian, Paul O'Byrne, Parminder Raina

PA899
Canadian health care professionals’ experiences diagnosing chronic cough – results from a healthcare survey
Elena Kum (Hamilton, Canada), Nermin Diab, Mustafaa Wahab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

PA900
Canadian health care professionals’ familiarity with chronic cough, its impact on patients, and guideline recommendations of the diagnosis and treatment of chronic cough
Mustafaa Wahab (Hamilton, Canada), Elena Kum, Nermin Diab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

PA901
Hypotonic Saline Effectively discriminates Refractory/Unexplained Chronic Cough from Healthy Volunteers
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Rachel Dockry, Shilpi Sen, Shannon Galgani, Paul Marsden, Jacky Smith

PA902
Validation of cough monitoring by Albus Home RD, a contactless bedside device for nocturnal monitoring
William Do (Oxford, United Kingdom), Richard Russell, Christopher Wheeler, Hamza Javed, Cihan Dogan, George Cunningham, Vikaran Khanna, Maarten De Vos, Imran Satia, Mona Bafadhel, Ian Pavord

PA903
Exhaled biomarkers in adults with non-productive cough
Össur Ingi Emilsson (Uppsala, Sweden), Spela Kokej, Jörgen Östling, Anna-Carin Olin

PA904
An algorithm to identify patients with refractory chronic cough from administrative claims data: a feasibility study
Negin Hajizadeh (Madrid, Spain), Sascha van Boemmel-Wegmann, Philippe Vieira Pires, Ron Herrera, Pareen Vora

PA905
Consensus goals and standards of specialist cough clinics: the NEuroCOUGH international Delphi study
Woo-Jung Song (Seoul, Republic of Korea), Charlotte Van De Kerkhove, Laurent Guilleminault, Jan Willem Van Den Berg, Giovanni Fontana, Surinder Birring, Eva Millqvist, Alyn Morice, Lieven Dupont, Lorcan Mcgarvey

PA906
Characteristics of patients with potential refractory chronic cough identified using an algorithm designed for administrative claims databases: a descriptive study
Negin Hajizadeh (Madrid, Spain), Sascha van Boemmel-Wegmann, Philippe Vieira Pires, Ron Herrera, Pareen Vora

PA907
Does hiatal hernia impact GER-related chronic cough?
Olga Truba (Warszawa, Poland), Joanna Zuchowska, Marta Dąbrowska, Elżbieta Magdalena Grabczak, Katarzyna Bialek-Gosk, Aleksandra Rybka-Prączek, Rafał Krenke

PA908
Effects of environmental exposure to iron powder in an elastase mice model
<table>
<thead>
<tr>
<th>PA909</th>
<th>Posturography using video game of individuals with COPD compared to healthy elderly</th>
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<tbody>
<tr>
<td></td>
<td>Rodrigo Luiz (Mogi das Cruzes, Brazil), Carolina Castellari, Daniela Ike, Adriana Sousa, Evelim Gomes, Dirceu Costa</td>
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<tr>
<th>PA910</th>
<th>Late Breaking Abstract - Use of novel tidal breathing monitoring device to detect methacholine challenge test responders</th>
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<td></td>
<td>Inbal Shafran (Haifa, Israel), Andreas Zachariades, Nadav Bachar, Noy Danino, Gregory Shuster, Wieland Voigt</td>
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<th>PA911</th>
<th>Late Breaking Abstract - Novel QCT textures are associated with sRAGE and IL-6 in SPIROMICS</th>
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<tr>
<th>PA912</th>
<th>Late Breaking Abstract - Frequent productive cough is consistently associated with higher risk of COPD exacerbations during follow-up in NOVELTY</th>
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<tr>
<td></td>
<td>Hana Müllerová (Cambridge, United Kingdom), Rod Hughes, Stefan Franzén, Laura Belton, Clement Erhard, Christina Keen, Christer Janson, Helen K Reddel, Benjamin Fenby</td>
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<th>PA913</th>
<th>Late Breaking Abstract - Development of a daily predictive model for the exacerbation of chronic obstructive pulmonary disease</th>
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<td></td>
<td>Yong Suk Jo (Seoul, Republic of Korea), Kyung Hoon Min, Seoung Ju Park, Hyoung Kyu Yoon, Won-Yeon Lee, Kwang Ha Yoo, Ki Suk Jung, Chin Kook Rhee</td>
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<th>PA914</th>
<th>Late Breaking Abstract - Oral corticosteroid (OCS) risk predictor for Type II Diabetes in asthma</th>
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<td></td>
<td>Brooklyn Stanley (One Shenton, Singapore), Andrew Menzies-Gow, Arnaud Bourdin, Giorgio Walter Canonica, Mark Gurnell, Helen Reddel, Liam G. Heaney, Victoria Carter, Jatin Chapander, Trung N. Tran, Ekaterina Maslova, David Price</td>
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<th>PA915</th>
<th>Late Breaking Abstract - Health status, activity score and dyspnea grade in chronic bronchitis, COPD and healthy controls in China</th>
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<td></td>
<td>Paul Jones (London, United Kingdom), Rongchang Chen, Jingping Zheng, Yongchang Sun, Fuqiang Wen, Qianli Ma, Xuefi Li, Liang Zhang, Weilun Ke, Shang Cao, Shuling Hu, Jie Song, Chris Compton, Nanshan Zhong</td>
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**TP-12 in thematic poster**

**Session 142**

13:00 - 14:00

### Thematic poster: New insights into asthma immunology: from mouse to man

**Disease(s):** Airway diseases

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

**Chairs:** Ian M. Adcock (London, United Kingdom), Tania Maes (Ghent, Belgium)

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<th>PA916</th>
<th>Screening and verification of differentially expressed genes for airway remodeling in asthma</th>
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<td>Ling Qin (Changsha (Hunan), China), Chi Liu, Mengping Wu, Ye Yao</td>
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<th>PA917</th>
<th>Control of T cell-dependent steroid-resistant asthma model by several kinase inhibitors</th>
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<td></td>
<td>Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Koyuia, Ikayo Yamaguchi, Akemi Ohtomo-Abe, Keisuke Ishamoto, Koichi Yano, Norihito Fujita, Maki Iwata, Kisako Nagayama, Kai Ryu, Yuto Nakamura, Yuto Hamada, Kentaro Watai, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Takayuki Ohtomo, Osamu Kaminuma</td>
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<th>PA918</th>
<th>Female sex hormones affect asthma severity by altering cellular metabolism in the airways</th>
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<td>Olivia Carroll (Newcastle, Australia), Alexandra Brown, Jemma Mayall, Nazanin Zoumenat-Kermani, Henry Gomez, Richard Kim, Chantal Donovan, Evan Williams, Bronwyn Berthon, James Pinkerton, Katie Wynne, Hayley Scott, Yi-Ke Guo, Philip Hansbro, Paul Foster, Sven-Erik Dahlén, Ian Adcock, Lisa Wood, Jay Horvat</td>
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<th>PA919</th>
<th>Monensin inhibits mast cell-induced airway contractions in human and guinea pig asthma models</th>
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<td></td>
<td>Jielu Liu (sola, Sweden), Mu Nie, Caijuan Dong, Jesper Säfholm, Gunnar Fejer, Gunnar Nilsson, Mikael Adner</td>
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<th>PA920</th>
<th>Modulation of sensitization and inflammation through S. aureus nasal carriage in allergic asthma patients and a mouse model</th>
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<td>Sabine Stegemann-Koniszewski (Magdeburg, Germany), Sophia Görges, Azin Asari, Eva Lücke, Silva Holtfreter, Siouxsie Wiles, Jens Schreiber</td>
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<th>PA921</th>
<th>The polybacterial mucosal vaccine MV130 impairs airway inflammation in a HDM-induced eosinophilic asthma model</th>
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<td>Ana Carmen Sevilla Ortega (Madrid, Spain), Alba Angelina Querencias, Beatriz Marcos Ramiro, Mario Pérez Diego, Laura Conejero Hall, Jose Luis Subiza, Oscar Palomares Gracia</td>
</tr>
</tbody>
</table>
Relationship between interleukin-13 and transferrin receptor-1 responses in the pathogenesis of asthma

Transcriptomic analysis of cellular senescence signatures in severe asthma
Woo-Jung Song (Seoul, Republic of Korea), Nazanin Zounemat-Kermani, Yi-Ke Guo, Ian Adcock, Kian Fan Chung

Blood eosinophils activation type, besides count, associate with exacerbations in asthma
Simone Scarlata (Roma (RM), Italy), Laura Vitiello, Carmen Mazzucca, Panaioits Finamore, Sonia Zotti, Silvia Travaglini, Raffaele Antonelli Incalzi

Dupilumab treatment increases transitional B-cells (regulatory B-cells) in severe asthma
Marek Lommatzsch (Rostock, Germany), Marieke Dost, Neeraja Jaishankar, Martin Weise, Paul Stoll, Johann Christian Virchow, Kai Bratke

Alarmin release in the bronchial epithelium of allergic asthma patients vary in response to different aeroallergens
Sangetha Ramu (Lund, Sweden), Christian Uggerhoj Woehl, Juan-Jose Nieto-Fontarigo, Samuel Cerpes, Sara Vazquez Mera, Mandy Menzel, Hamid Akbarshahi, Celeste Porsbjerg, Lena Uller

Endotyping severe asthma with qPCR for five mast cell transcripts in induced sputum correlates with microscopy
Bo Tornesjes (Aarhus C, Denmark), Johannes M Schmid, Michael Fricker, Hans Juergen Heinrich Hoffmann

Influence of polymorphisms in vitamin D receptor gene on severity and exacerbations of asthma
Sekiko Uehara (Shizuoka, Japan), Keita Hirai, Toshihiro Shirai, Hinako Otaki, Taisuke Akamatsu, Kunihiko Itoh

Endotyping severe asthma with qPCR for five mast cell transcripts in induced sputum correlates with microscopy
Bo Tornesjes (Aarhus C, Denmark), Johannes M Schmid, Michael Fricker, Hans Juergen Heinrich Hoffmann

Impact of ozone on allergic airway inflammation
Mehrdad Arjomandi (San Francisco, United States), Hofer Wong, Rachel Tenney, Nina Holland, John Balmes

Alarmin expression in the upper and lower airways of asthmatics with allergic rhinitis
Christiane Whetstone (Hamilton, Canada), Maral Ranjbar, Nadia Alsaji, Dhuha Al-Sajee, Lesley Wiltshire, Jennifer Wattie, Paul O’Byrne, Ruth Cusack, Roma Sehmi, Gail Gauvreau

Increased IgA+ memory B cells are associated with small airway dysfunction in asthma patients
Ruth Grychtol (Hannover, Germany), Anika Habener, Svenja Gaedcke, David Deluca, Anna Maria Dittrich, Christine Happel, Mustafa Abdo, Henrik Watz, Frauke Pedersen, Inke Regina König, Dominik Thiele, Mathias Volkmar Kopp, Erika Von Mutius, Thomas Bahnner, Klaus F. Rabe, Almut Meyer-Bahlburg, Gesine Hansen

Comparison of upper and lower airway expression of SARS-COV-2 receptors in mild allergic asthmatics
Maral Ranjbar (Hamilton, Canada), Christiane Whetstone, Ruth Cusack, Dhuha Al-Sajee, Nadia Alsaji, Paul O’Byrne, Roma Sehmi, Gail Gauvreau

Thematic poster: Diagnosis, risk factors and management of asthma
Disease(s): Airway diseases
Method(s): Epidemiology, Public health, Pulmonary function testing
Chairs: Shyam Krishnan (Kolkata West Bengal, India), Elena Lopez Varela (Barcelona, Spain)

Treatment situation of patients with uncontrolled GINA 4 or 5 asthma in Germany
Dirk Skowasch (Bonn, Germany), Hartmut Timmermann, Katrin Milger, Johann Christian Virchow, Olaf Schmidt, Karl Christian Bergmann, Dirk Koschel, Claus Neurohr, Florian Scholz, Robert Lindner, Sebastian Heck
Severity of adult onset asthma – a matter of blood neutrophils and severe obesity?
Sofia Winsa Lindmark (Luleå, Sweden), Caroline Stridsman, Axel Sahlin, Linnea Hedman, Nikolai Stenfors, Tomi Myrberg, Anne Lindberg, Eva Rönmark, Helena Backman

Adverse events and asthma among adults in the UK Biobank
Yueh-Ying Han (Pittsburgh, United States), Erick Forno, Wei Chen, Juan Celedón

Accuracy of asthma diagnosis and factors associated with misdiagnosis in primary care setting
Isabella Annesi Maesano (Montpellier, France), Marzia Simoni, Claudio-Maria Sanguinetti, Stefano Nardini, Fernando De Benedetto

Time trends of asthma in children – true increase or increased diagnostics?
Linnea Hedman (Luleå, Sweden), Anna Winberg, Anders Bjerg, Helena Backman, Martin Andersson, Eva Rönmark

Influence of asthma on ARIA classification of allergic rhinitis in the French population-based cohort Constances
Marine Savouré (Paris, France), Jean Bouquet, Bénédicte Leynaert, Marcel Goldberg, Marine Zins, Bénédicte Jacquemin, Rachel Nadif

The prevalence of severe asthma, use of oral corticosteroid and management strategies in the Nordic countries: results from the pan-Nordic NORDSTAR cohort

Birth order, sibship size and wheezing phenotypes: a systematic review and meta-analysis
Danil Lisik (Gothenburg, Sweden), Athina Ioannidou, Gregorio Paolo Milani, Sungkutu Nyassi, Saliha Selin Özyuygur Ermis, Giulia Carla Immacolata Spolidoro, Hannu Kankaanranta, Emma Goksör, Görän Wennergren, Bright Ibeabughichi Nwaru

Persistent asthma-like symptoms in COVID-19 patients 3 and 12 months after severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection
Shokouh Makvandi-Nejad (ÅS, Norway), Hooman K Moghadam, Francisco Gomez Real, Randi Jacobsen Bertelsen, Juan Pablo López-Cervantes, Nina Langeland, Bjørn Blomberg, Rebecca Jane Cox, Cecilia Svanes

The prevalence and risk factors of asthma, allergic rhinitis, and chronic obstructive pulmonary disease in Azerbaijan
Çagla Khurshud Huseynova (ANKARA, Turkey), Gunel Sadiqova, Dilara Bakhshaliyeva, Khurshed Hajiyeva, Elvin Mamnadov, Lamiya Abbasli, Beyim Mahmoudova, Kamran Mamnadov, Niftali Zerbelyev, Abbas Bagirov, Kamala Baylarova, Ahmet Uğur Demir, Ali Fuat Kalyoncu

Clinical and paraclinical profile in asthmatic patients with COVID-19 at Hassan II hospital in AGADIR
Oussama HALLOUMI (AGADIR, Morocco), Houda Moubachir, Hind Serhane

Adherence to Mediterranean diet and asthma control: results from a cross-sectional study in Greece.
Maria Sfika (Athens, Greece), Myrto Blizou, Spiros Papiris, Maria-Iosifina Kasdagli, Petros Bakakos, Stelios Loukides, Pagona Lagiou, Androniki Naska

The economic cost of intermittent and persistent asthma in Italy.
Simone Accordini (Verona (VR), Italy), Luigi Martinelli, Lucia Calciano, Federica Albicini, Leonardo Antonicelli, Roberto Bono, Alessandro Fois, Erica Gini, Amelia Grosso, Nicola Murgia, Pietro Pirina, Giulia Squillaciotti, Elisabetta Zinellu, Angelo Corsico

Impact of lockdowns on paediatric asthma hospital presentations over three waves of COVID-19 pandemic
Nusrat Homaira (Sydney (NSW), Australia), Nan Hu, Louisa Owens, Mei Chan, Melinda Gray, Philip Britton, Hiren Selvaduri, Raghu Lingam, Adam Jaffe

Different prevalence trends in allergic sensitization, asthma and rhinitis among children from 1996 to 2017 in Northern Sweden
Eva Rönmark (Luleå, Sweden), Joakim Bunne, Anders Bjerg, Linnea Hedman

Diet quality, food intake and incident adult-onset asthma
Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Janneke Pepels, Huib Kerstjens, Anneke Ten Brinke, Tim Van Zutphen

A replication of the adult-onset (AOA) and late-onset asthma (LOA) genome-wide association studies (GWAS) in the Finnish Environment and Asthma Study (FEAS) of AOA
Taina Lajunen (Oulu, Finland), Jouni Jaakkola, Maritta Jaakkola
Risk factors for allergic and non-allergic asthma in adults
Petri Tapani Räisänen (Luleå, Sweden), Helena Backman, Linnea Hedman, Ann Lindberg, Linda Ekerljung, Bright Nwaru, Eva Rönmark

Association between Diet Quality and Frequency based on Dietary Fats and Glycaemic Index Scores with the presentation of Asthma in Young Chinese Adults in Singapore and Malaysia.
Jun Jie Lim (Singapore, Singapore), Praneeth Malipeddi, Ying Yi Eliza Lim, Jun Yan Ng, Wei Yi Teo, Ambrose Qi Yi Wong, Yi Ru Wong, Keng Foo Teh, Smyrna Moti Rawanan Shah, Yee-How Say, Kavita Reginald, Sri Anusha Matta, Yang Yie Sio, Fook Tim Chew

Thematic poster: Tobacco and nicotine: where are we after the pandemic

Disease(s): Pulmonary vascular diseases, Airway diseases, Thoracic oncology
Method(s): Epidemiology, Public health, Cell and molecular biology, General respiratory patient care, Imaging, Pulmonary function testing

Chairs: Aslı Görek Dilektaşlı (Bursa, Turkey), Chair to be confirmed

Paternal pre-pubertal tobacco smoking and offspring DNA methylation
Negussie Kitaba (Southampton, United Kingdom), Toril Knudsen, Ane Johannessen, Faisal Rezwan, Andrei Malinovschi, Anna Oudin, Bryndis Benediktsdottir, David Martino, Francisco Callejas González, Leopoldo Gómez, Mathias Holm, Oskar Jögi, Shyamali Shyamali Dharmage, Svein Skulstad, Francisco Gómez-Real, Vivi Schülenss, Cecilie Svanes, John Holloway

Cannabis smokers among lung cancer patients: data from real-life French study
Olivier Molinier (Le mans, France), Dorine Templement, Sébastien Couraud, Stéphanie Dehette, Pierre-Alexandre Hauss, Marjorie Picaud, Anne-Sophie Bravard, Hervé Le Floch, Magalie Paysse, Patrick Dumont, Laurent Mosser, Christian Delafosse, Cécile Muincent, Joëlle Courdeau-Labourie, Jérôme Virally, Anne-Sophie Blanchet-Legens, Florence Lamotte, Alexa Maiorovitz, Vincent Tack, Alexia Letierce, Didier Debievre

Tobacco smoking and severity of COVID-19: Experience from ICU department in a referral hospital during the third pandemic wave
Stamatoula Tsikrika (Athens, Greece), Sylvia Raftopoulou, Vasiliki Nanou, Sotiris Kakavas, Aikaterini Tzagkaraki, Sofia Pouriki, Panagiotsis Nikolopoulos, Mariná Asmanidou, Theoni Agapitou, Ioannis Nikolopoulos

COVID-19 and smoking: Worst complications and outcome
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

Smoking habits during the COVID pandemic: data from Greek healthcare professionals’ population.
Athanasia Pataka (Thessaloniki, Greece), Asterios Tzinias, Seraphim Kotoulas, Evdokia Sourla, Evangelos Chatzopoulos, Ioanna Grigoriou, Katalin Fekete, Paraskevi Argyropoulou

What is the main driver of tobacco survey participation in medical schools? A national cross-sectional study in Portugal
Sofia Belo Rava (Covilhã, Portugal), Inês Sofia Pontes Clemente, Hilson Cunha Filho, Pedro Aguiar, Jorge Bonito

Trend of smuggled cigarette consumption in Tehran in the last two decades
Gholamreza Heydari (Tehran, Islamic Republic of Iran), Luk Joossens

Medical trainees’ knowledge and attitudes towards electronic cigarettes and Hookah
Luiza Helena Degani-Costa (São Paulo, Brazil), Fernando P Bruno, Fernanda Guschen, Claudia Szlejf, João Roberto Resende Fernandes, Ana B P Tokeshi, Yasmin F Tehrani, Daniel Kaufman, Kandipudi K Lakshmi Prasad, Limalemla Jamir, Pentapati S S Kumar, Morag G Ryan, Matthew G K Benesch, Hardeep S Lotay, Jonathan P Fuld, Thiago M Fidalgo

Long-term outcomes of a tertiary care university hospital’s smoking cessation outpatient clinic: Experience from the Eastern Black Sea Region of Turkey
Dilek Karadoğan (Rize, Turkey), Serhat Altunsoy, Tansel Gökhan Telatar, Ünal Şahin

Electronic opt-out smoking cessation proforma results in high levels of engagement among emergency surgical admissions
Fred Fyles (Liverpool, United Kingdom), Steven Couolson, Kate Maitland, Patricia Rodrigues, Gareth Jones

Circumventing the Menthol Ban: Internet sales of menthol balls
Elif Daglı (İstanbul, Turkey), Ummuhan Pece Sommez, Murat Güner, Osman Elbek, Pinar Ay, Fusun Yildiz, Tanzer Gezer, Murat Ceyhan

Effect of gender and age on the perception of cigarettes flavour intensity
Efthimios Zervas (Patra, Greece), Niki Matsouki, Emmanuel Konstandinidis, Chara Tsipa
New Product at Point of Sales: Menthol ball
Elif Dagli (Istanbul, Turkey), Ummuhan Pece, Murat Guner, Fusun Yildiz, Osman Elbek, Pinar Ay, Tanzer Gezer, Murat Ceyhan

The effects of the pandemic on smoking behaviors of smokers in a border region where easy access to low price tobacco products available
Dilek Karadoğan (Rize, Turkey), Tahsin Gökhan Telatar

E-cigarettes in Ireland – prevalence, motivations, and relationship with tobacco
Luke J. Clancy (Dublin 8, Ireland), Joan Hanafin, Salome Sunday

Physicians self-reported barriers on smoking cessation brief intervention: a cross-sectional study in Portugal
Sofia Belo Ravara (Coimbra, Portugal), Susana Amorim, Hilson Cunha-Filho, Pedro Aguilar

Point of sales: Playground of the tobacco industry
Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Osman Elbek, Fusun Yildiz, Pinar Ay, Tanzer Gezer, Murat Ceyhan

Late Breaking Abstract - An estimate of the global COPD prevalence in 2050: Disparities by income and gender
Elroy Boers (Calgary, Canada), Meredith Barrett, Vy Vuong, Jason Su, Leanne Kaye, Daniela Tellez, Carlos Nunez, Atul Malhotra

Late Breaking Abstract - E-cigarette use and lung function: preliminary results from the VapeScan Study
Elizabeth Oelsner (New York, United States), Enoch Jiang, Nicole Vieira Pires, Diane Hawkins, Dona Sangapalaarachchi, Vesna Ilievski, Nancy Loiacono, Ana Navas Acien

Late Breaking Abstract - Quantitative CT emphysema subtypes and pulmonary blood volume on dual-energy CT: The MESA Lung Study

Thematic poster: Finding the way to a correct asthma diagnosis

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

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

Chairs: Erol Gaillard (Leicester (Leicestershire), United Kingdom), Carmen Cornelia Maria de Jong (Bern, Switzerland)

Asthma diagnosis in children by real-time breath analysis
Alexander Möller (Zürich, Switzerland), Srdjan Micic#, Houssni Lamkaddam#, Yvette Baumann, Prince Tiwari, Peter Horvath, Andre Stephan Henry Prevot, Imad El Haddad

Pulmonary function characteristics in children with suspected asthma: implications for asthma diagnosis
SOOYEON KIM (Seoul, Republic of Korea), Mireu Park, Yun Young Roh, Hamin Kim, Jae Hwa Jung, Jong Deok Kim, Yong Ju Lee, Min Jung Kim, Yoon Hee Kim, Kyung Won Kim, Myung Hyun Sohn

Post-bronchodilator 1-FEV1/FEV3 as a measure of small airway dysfunction in childhood asthma
Yun Young Roh (Seoul, Republic of Korea), Hamin Kim, Jae Hwa Jung, Mireu Park, Jong Deok Kim, Min Jung Kim, Yoon Hee Kim, Myung Hyun Sohn, Kyung Won Kim, Soo Yeon Kim

Normal reference values of Fractional Exhaled Nitric Oxide (FENO) in healthy Indian primary school children
Neha Mohan Rao (Birmingham, United Kingdom), Sanjay Bafna, Bhakti Sarangi, Prasad Nagakumar, Satish Rao

Ethnic differences in daily FeNO response after systemic steroids in children with severe asthma
Ioannis Makariou (London, United Kingdom), Andrew Bush, Sejal Saglani, Valentina Fainardi, Cara J Bossley, Louise Fleming

Forced Oscillation Technique (FOT) in school-aged healthy children
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Caroline Beardsmore, Erol Gaillard

Pre- and post-bronchodilator Forced Oscillation Technique in preschool children with acute wheeze in the emergency department
Malak Alshlowi (Alkhobar, Saudi Arabia), Pooja Devani, Afnan AlRaimi, Caroline Beardsmore, Erol Gaillard

Forced Oscillation Technique (FOT) and spirometry in school aged children with stable asthma
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Malak Alshlowi, Caroline Beardsmore, Erol Gaillard
| PA984 | Sensitivity and specificity of the Forced Oscillation Technique (FOT) in school aged children with stable asthma  
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Malak Alshlowi, Caroline Beardsmore, Erol Gaillard |
| PA985 | Peak inspiratory flow in children with exercise induced laryngeal obstruction  
Ioannis Makariou (London, United Kingdom), Serena Rhami, Andrew Bus, Sejal Saglani, Louise Fleming, Samantha Sonnappa |
| PA986 | Paediatric breath VOC analysis using the ReCIVA breath sampler and batch effects  
Erol Gaillard (Leicester (Leicestershire), United Kingdom), Kirandeep Bhavra, Mike Wilde, Matt Richardson, Rebecca Cordell, Paul Thomas, Bo Zhao, Luke Bryant, Christopher Brightling, Wadah Ibrahim, Dahlia Salman, Salman Siddiqui, Paul Monks |
| PA987 | The role of cardiopulmonary exercise testing to evaluate exercise induced dyspnoea in asthmatic children  
Elizabeth Scotney (Harpenden, United Kingdom), Ridma Jayarathna, Latika Gupta, Andrew Bush, Sejal Saglani, Louise Fleming, Samantha Sonnappa |
| PA988 | Urinary eosinophil-derived neurotoxin in wheezing and asthmatic children  
Jimmy Omony (Neuherberg, Germany), Clemens Thölken, Azam Salimi, Kristina Laubhahn, Markus Weckmann, Ruth Grychtol, Dominik Tiele, Matthias Volkmar Kopp, Gesine Hansen, Harald Renz, Erika Von Mutius, Bianca Schaub, Chrysanthi Skevaki |
| PA989 | Small airways dysanapsis in overweight/obese asthmatic children  
Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), (...), Magdalena Vocos, Anahi Kruger, Doris Sofia Primrose, Marcela Roque, Gabriela Andrade, Carlos Tomás Velasco Suarez, Tania Vanessa Florez Gonzalez, Juan Manuel Figueroa Turienzo |
| PA990 | Serum Eosinophil-Derived Neurotoxin (EDN) is a Promising Biomarker for Recurrent Wheeze and Asthma in Preschool Children  
Niclas Rydell (Uppsala, Sweden), Taiga Kobori, Mizuho Nagao, Robert Movéare, Helena Ekoff, Anders Sjölander, Magnus P Borres, Takao Fujisawa |
| PA991 | Serum Eosinophil-Derived Neurotoxin is Associated with Symptom Severity During Acute Wheeze in Preschool Children  
Niclas Rydell (Uppsala, Sweden), Taiga Kobori, Mizuho Nagao, Robert Movéare, Anders Sjölander, Helena Ekoff, Magnus P Borres, Takao Fujisawa |
| PA992 | Handgrip strength in adolescence - sex differences, determinants, and associations with Asthma-related Traits  
Laura Hesselberg (København N, Denmark), Julie Nyholm Kyvsgaard, Jakob Stokholm, Klaus Bonnelykke, Hans Bisgaard, Bo Chawes |
| PA993 | Feasibility of Airwave Oscillometry in Preschool Children with Acute Wheeze in the Emergency Department  
Malak Alshlowi (Alkhobar, Saudi Arabia), Pooja Devani, Afnan Alraimi, Caroline Beardsmore, Erol Gaillard |
| PA994 | Influence of age on skin sensitization in atopic children  
Hela Cherif (Tunis, Tunisia), Nouha Guediri, Slim Kalboussi, Mariem Triki, Hend Khouani, Ferdaous Yangui, Med Rida Charfi |
| PA995 | Late Breaking Abstract - Exhaled air metabolome analysis for childhood asthma fingerprints identification - the preliminary study  
Andrzej Swinarew (Katowice, Poland), Grzegorz Brożek, Agnieszka Jarosińska, Jan E. Zejda, Jadwiga Gabor, Pawel Raif, Szymon Skoczyński, Jarosław Paluch |

**TP-16 in thematic poster**  
**Session 146**  
**13:00 - 14:00**

**Thematic poster: Predictors of lung function and respiratory morbidity in children**  
**Disease(s):** Airway diseases, Sleep and breathing disorders  
**Method(s):** Epidemiology, Public health, General respiratory patient care, Imaging, Physiology, Pulmonary function testing  
**Chairs:** Maribel Casas (Barcelona, Spain), Franca Rusconi (Pisa, Italy)

**PA996** Systematic review and meta-analysis of FEV1 in preterm born children  
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), James Gibbons, Christopher W Course, Emily E Evans, Shannon J Simpson, W John Watkins, Sailesh Kotecha

**PA997** Lung function and structure in preterm-born adolescents of the surfactant era  
Yasmin Salem (Bern, Switzerland), C. Corin Willers, Anne-Christianne Kentgens, Julian Jakob, Enno Stranzinger, Ben Brabandt, Alan Peters, Laura I. Loebelein, Grzegorz Bauman, Philipp Latzin, Sophie Yammine
PA998 Lung function trajectories and pulmonary functions in healthy young smokers
Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Blagoi Marinov, Stefan Kostianev

PA999 Exposure to air pollution and lung development during childhood: the LUIS Study
Jakob Usemann (Basel, Switzerland), Rebeca Mozun, Claudia Kuehni, Kees De Hoogh, Florian Singer, Alexander Möller, Philipp Latzin

PA1000 Investigating the impact of London’s Ultra Low Emission Zone (ULEZ) on children’s respiratory health: Lung function of participants in the CHILL Study

PA1001 Impact of biomass fuel smoke on respiratory health of children under 15 years old in Madagascar
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouaalaaya, Michel Tiafra Harison, Kiady Ravahatra, Rondro Nirina Raharimanana, Joeelyn Robert Rakotomizao, Joelson Lovaniaina Rakotoson, Njaka Andriamahenina, Ange Andrianarisoa, Andrianiaivo Ralison, Denis Charpin, Brigitte Rahelolina, Jean De Dieu Marie Rakotomanga, Pierre L’Her, Jean-Marie Tschopp, Raolaina Andriambololona, Chantal Raherison-Semjen

PA1002 Ambient air pollution exposure during pregnancy is associated with low cord blood IL-17a in infants
Olga Gorlanova (Bättwil, Switzerland), Heide Oller, Andrea Marten, Loretta Müller, Jessica Laine-Carmelli, Fabienne Decruy, Yasmin Salem, Danielle Vienneau, Kees De Hoogh, Amanda Gisler, Jakob Usemann, Insa Korten, Sophie Yammine, Uri Nahum, Noemi Künstle, Sven Schulzke, Philipp Latzin, Oliver Fuchs, Martin Röösli, Bianca Schaub, Urs Frey

PA1003 Short-term air pollutant exposure and infant lung function in a South African birth cohort
Nithiseelan Rajen Naidoo (Durban, South Africa), Sheena Muttoo, Prakash Jeena, Kareshma Asharam, Kees De Hoogh, Martin Roosli

PA1004 Impact of exposure reduction recommendations on asthma symptom control during the high desert dust season in Cyprus: The MEDEA randomised trial in children with asthma
Panayiotis Kous (Nicosisia, Cyprus), Paraskevi Kini, Antonis Michanikou, Penelope Anagnostopoulou, Konstantinos Pitsios, Maria G. Kakkoura, Stefania I. Papatheodorou, Petros Koutrakis, Panayiotis K. Yiallouros

PA1005 Predictors of suboptimal asthma control and of asthma attacks differ: the Swiss Paediatric Airway Cohort (SPAC)
Cristina Ardura-Garcia (Bern, Switzerland), Maria Christina Mallet, Daria Olena Berger, Eva Sophie Lunde Pedersen, Karyn Hojler, Anja Jochem, Alena Kuhn, Alexander Moeller, Nicolas Regamey, Florian Singer, Claudia E Kuehni

PA1006 External Validation of the Predicting Asthma Risk in Children (PARC) tool in a clinical cohort
Daria Berger (Bern, Switzerland), Eva S L Pedersen, Maria C Mallet, Carmen C M De Jong, Jakob Usemann, Nicolas Regamey, Ben D Spycher, Cristina Ardura-Garcia, Claudia E Kuehni

PA1007 Night cough in children: phenotypic characterisation, healthcare utilisation, and management in a population-based study
Maria Christina Mallet (Bern, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Maja Jurca, Philipp Latzin, Moeller Alexander, Kuehni Claudia E

PA1008 The impact of passive smoking in infancy on respiratory morbidity during covid-19 pandemic: a birth-cohort study
Keren Armoni Domany (Tel-Aviv, Israel), Michael Schnapper, Natalie Rosenfeld, Ilan Dalal, Diana Tasher, Alma Kamar, Avigdor Mandelberg

PA1009 Mortality in children and adolescents on Home Mechanical Ventilation: Systematic Literature Review and Meta-Analysis
Roberto Vera Uribe (Santiago, Chile), Luis Vasconcello, Jordi Vilaró, Rebeca Paiva, Rodrigo Torres-Castro

PA1010 What is the clinical status of patients on discharge from bronchopulmonary dysplasia clinic?
Sinead Carton (Derby, United Kingdom), Joshua Meadows, Jayesh Mahendra Bhatt

PA1011 Recurrent Pneumonia in children: A Single Centre Experience in Malaysia.
Sze Chiang Lui (Kuala Lumpur, Malaysia), Charlotte Ying Shi Gan, Yi Cheau Chua, Nor Diyana Ismail, Jia Chi Soh, Dakshnamosorthy Vythinathan, Then Moli Othayamoorthy, N.Fafwati Faridatul Akmar Mohammad, Hasliza A.Razak, Shangari Kunaseelan, Karuthan Chinna, Asiah Kassim

PA1012 Late Breaking Abstract - Comparison of nasal microbiota between term and preterm infants at mean post-menstrual age of 45 weeks
Olga Gorlanova (Bättwil, Switzerland), Annika Nissen-Kratertz, Nadezda Mostacci, Noemi Künstle, Andrea Marten, Amanda Gisler, Katharina Bacher, Yasemin Salem, Jakob Usemann, Insa Korten, Sophie Yammine, Uri Nahum, Sven Schulzke, Philipp Latzin, Oliver Fuchs, Markus Hilty, Urs Frey
PA1013 Late Breaking Abstract - Cough phenotypes in children
Maria Christina Mallet (Bern, Switzerland), Eva S L Pedersen, Ronny Makhoul, Sylvain Blanchon, Karin Hoyler, Anja Jochmann, Philipp Latzin, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Myrofora Goutaki, Ben D Spycher, Claudia E Kuehni

PA1014 Late Breaking Abstract - Prevalence and patient characteristics of dysfunctional breathing in children and adolescents with asthma
Signe Vahlkvist (Kolding, Denmark), Louise Jürgensen, Tine Dettlefsen Hell, Thomas Houmann Petersen, Poul- Erik Kofoed

PA1015 Late Breaking Abstract - Application and External Validation of the Asthma Severity Scoring System (ASSESS) in children and adults
Ruth Grychtol (Hannover, Germany), Lennart Riemann, Svenja Gaedcke, Bin Liu, David Deluca, Reinhold Förster, Nicole Maison, Dominik Thiele, Nikolas Jakobs, Thomas Bahmer, Meike Meyer, Svenja Foth, Stefanie Weber, Ernst Rietschel, Klaus F. Rabe, Matthias V. Kopp, Erika Von Mutius, Anna-Maria Dittrich, Hansen Gesine

TP-17 in thematic poster area
Session 147 13:00 - 14:00

Thematic poster: Risk stratification in lung transplant patients

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

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

Physiology : Surgery

Chairs : Saskia Bos (Newcastle upon Tyne, United Kingdom), Merel Hellemons (Rotterdam, Netherlands)

PA1016 Morbimortality of severe early abdominal complications in lung transplanted patients
Laura González Ramos (Santander, Spain), Joy Selene Osorio Chávez, Marta Cristeto Porras, Noelia Borja Vargas, Sandra Tello Mena, David Iturbe Fernández, José Manuel Cifrián Martínez, José Manuel Cifrián Martínez, Victor Manuel Mora Cuesta

PA1017 Sarcopenia and skeletal muscle dysfunction in lung transplant candidates
Mauricio Salinas (Colina, Chile), Christian Andrade, Silvana Valdés, Claudio Caniulaf, Ditzy Provoste, Rodrigo Adasme, Virginia Linacre

PA1018 IMPACT OF NEUTROPENIA AND GRANULOCYTE COLONY-STIMULATING FACTOR TREATMENT IN LUNG TRANSPLANT RECIPIENTS
Raquel Sanabrias (Madrid, Spain), Rosalia Laporta, Myriam Aguilar, María Teresa Lázar, Christian García, Silvia Aguado, Ana Royuela, María Piedad Ussetti

PA1019 Cystic Lung Diseases and Lung Transplantation
Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Marta Erro Iribarren, Silvia Aguado Ibáñez, Rosalía Laporta Hernández, Myriam Aguilar Pérez, Christian García Fadul, Guillermo Páez, María Piedad Ussetti Gil

PA1020 Renal outcomes according to baseline kidney function after lung or combined heart-lung transplantation for pulmonary hypertension
Alexander D'Haenens (Leuven, Belgium), Louis Vanwalleghem, Rozenn Quarc, Catharina Belge, Guido Claessen, Dirk Kuypers, Geert De Vlieger, Tom Verbelen, Laurens Ceulemans, Dirk Van Raemdonck, Arne Neyrinck, Geert Verleden, Robin Vos, Marion Delcroix, Laurent Godinas

PA1021 Right ventricle and lung ischemia-reperfusion injury: Large animal model mimicking hemodynamics during off-pump sequential single-lung transplantation
Michaela Orlitová (Leuven, Belgium), Piet Claus, Anna E Frick, Dieter Van Beerst, Bert Demeulemaere, Marouane Benthami Khibi, Jan Van Slambruck, Bart M Vanaudenaerde, Geert M Verleden, Stijn Verleden, Walter Coudyzer, Robin Vos, Dirk E Van Raemdonck, Laurens J Ceulemans, Tom Verbelen, Arne P Neyrinck

PA1022 Referral characteristics and outcome of listing for lung transplantation in interstitial lung diseases patients
Martina Stercelová (Praha, Czech Republic), Lucie Valenťova-Bartakova, Libor Fila, Jiri Pozniak, Monika Svorcova, Robert Lischke

PA1023 Lung transplantation for interstitial lung disease: lessons from a UK single centre experience
Saskia Bos (Newcastle upon Tyne, United Kingdom), Swee W Leong, Zhe K Law, James L Lordan, Arun Nair, Andrew J Fisher, Gerard Meachery

PA1024 A survey of referral rates for lung transplant assessment in patients with interstitial lung disease meeting pulmonary function criteria
Ofir Deri (Petach Tikva, Israel), David Ovadia, Michael Peled, Sumit Chatterji, Liran Levy

PA1025 Telomere length measurement in the pre lung transplant evaluation of patients with interstitial lung disease
Julie Morisset (Montréal (QC), Canada), Vincent Ferraro, Basil S Nasir, Anne-Sophie Lemay, Stépahne Doucet, Genevieve Huard, Charles D Poirier, Pasquale Farraro
**PA1026**
Downregulation of NLRP3/CASP1 and IL1B expression in COPD patients after lung transplantation
Ivona Markelić (Zagreb, Croatia), Lada Rumora, Iva Hlapčić, Feda Džubur, Sanja Popović Drle, Miroslav Samaržija, Andrea Vukić Dugac

**PA1027**
Airway complications after lung transplantation: risk factors and clinical characteristics
Hyeon Hwa Kim (Seoul, Republic of Korea), Dong Kyu Oh, Kyung-Wook Jo, Sang-Bum Hong, Tae Sun Shim, Geun Dong Lee, Sehoon Choi, Dong Kwan Kim, Seung-Il Park, Ho Cheol Kim

**PA1028**
The impact of donor-recipient sex match in the lung function after lung transplant
Albert Cheng (Richmond Hill, Canada), Haruna Kitazawa, Natalia Belousova, Anastasiia Vasileva, Joyce K.Y. Wu, Colidays Ryan, Chung-Wai Chow

**PA1029**
Bronchoalveolar lavage lymphocytes as a marker of acute cellular rejection in lung transplant recipients
Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Silvia Aguado Ibáñez, Marta Erro Iribarren, Guillermo Padin Pico, Myriam Aguilar Pérez, Rosalia Laporta Hernández, Maria Piedad Ussetti Gil, Beatriz Jara Chinarro

**PA1030**
Morphological changes during CLAD development after lung transplantation
Hanne Beeckmans (Leuven, Belgium), Vincent Geudens, Lynn Willems, Janne Kaes, Astrid Vermaut, Charlotte De Fays, Arne P Neyrinck, Geert M Verleden, Lieven Dupont, Laurens J Ceulemans, Dirk E Van Raemdonck, Robin Bos, Bart Vanaudenaerde

**PA1031**
Influence of mycophenolate mofetil dosage and plasma levels on the occurrence of chronic lung allograft dysfunction in lung transplants.
carolin steinack (Zürich, Switzerland), Philipp Saurer, Fiorenza Gautschi, René Hage, Gernot Ortmanns, Macé M Schuurmans, Thomas Gaisl

**PA1032**
Late Breaking Abstract - Donor smoking history does not affect the risk of lung cancer in lung transplantation patients
Eline A. van der Ploeg (Groningen, Netherlands), Erik A.M. Verschuuren, T. Jeroen N. Hiltermann, Johanna P. Van Gemert, Michiel Erasmus, Carolien Van De Wauwer, C Tji Gan

**PA1033**
Late Breaking Abstract - Effective home monitoring using portable spirometer of the patient after lung transplantation – feasibility pilot study
Mikolaj Basza, Wojciech Bojanowicz, Fryderyk Zawadzki, Marek Ochman, Lukasz Koltowski, Piotr Przybylowski, Mateusz Słoński

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**TP-18 in thematic poster area**
**Session 148**
**13:00 - 14:00**

**Thematic poster: Updates on physical activity, exercise and nonconventional therapies**

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

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

**Chairs:** Heleen Demeyer (Leuven, Belgium), Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil)

**PA1034**
Measurement properties of walk tests in interstitial lung diseases
Ana Oliveira (Hamilton, Canada), Sanan Alsubheen, Wade Michaelchuk, Alda Marques, Roger Goldstein, Dina Brooks

**PA1035**
Reference values for six-minute walk distance, -walk work and -distance-saturation product in adults
Jeanett Delbressine (Horn, Netherlands), Dennis Jensen, Anouk Vaes, Pei Li, Jean Bourbeau, Wan Tan, Bita Hajian, Alex Van’t Hul, Martijn Spruit

**PA1036**
Impact of ActiGraph’s processing criteria on steps count in COPD
Joana Antão (Aveiro, Portugal), Sara Almeida, Patricia Rebelo, Alda Sofia Pires De Dias Marques

**PA1037**
Physical activity and its correlates in patients with Cystic Fibrosis: a systematic review
Manon Kinaupenne (Gentbrugge, Belgium), Marieke De Craemer, Heidi Schaballie, Kristof Vandekerckhove, Stephanie Van Biervliet, Heleen Demeyer

**PA1038**
Experienced physical activity in patients with COPD: identifying subgroups according to C-PPAC
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breuls, Marieke Wuysts, Fien Hermans, Nikolaas De Maeyer, Eric Derom, Wim Janssens, Thierry Troosters

**PA1039**
Correlates of physical activity in patients with COPD: a multifactorial approach
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breuls, Marieke Wuysts, Fien Hermans, Nikolaas De Maeyer, Eric Derom, Wim Janssens, Thierry Troosters
### Session 149: COVID-19 Imaging and Diagnosis

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

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

#### Chairs: Harm Tiddens (Rotterdam, Netherlands), David Laszlo Tarnoki (Budapest, Hungary)

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<th>Abstract Id</th>
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</thead>
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<td>PA1054</td>
<td>Chest CT features in COVID-19 pneumonia according to duration of symptoms</td>
<td>Donia Belkhir (Tunis, Tunisia), Hana Blibech, Houda Snene, Aymen Jebali, Sryne Daoud, Line Kaabi, Soumaya Debbich, Nadia Mehiri, Saoussen Miladi, Ahmed Laatar, Nozha Ben Salah, Bechir Louzir</td>
</tr>
<tr>
<td>PA1055</td>
<td>Lung ultrasound : an economic solution to estimate the severity of SARS-COV2 pneumonia</td>
<td>Yesmine Haddar (Sousse, Tunisia), Islam Mejri, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaaouia, Zied Moetemri</td>
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<tr>
<td>PA1056</td>
<td>Imagistic lung findings using Artificial Intelligence in SARS CoV2 hospitalized patients based on vaccinal status</td>
<td>Stoichita Alexandru (Bucharest, Romania)</td>
</tr>
<tr>
<td>PA1057</td>
<td>Home oxygen therapy : A suitable modality for critically ill COVID-19 patients after discharge</td>
<td>Fatma Essafi (Zaghouan, Tunisia), Malek Kherrat, Najla Ben Slimene, Imen Talik, Khaoula Ben Ismail, Moez Kaddour, Takoua Merhabene</td>
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<td>PA1058</td>
<td>Association with changes in pulmonary artery diameters and outcomes in COVID-19: Retrospective study</td>
<td>Aybuke Selcuk (Beylikdüzü, Turkey), Can Iğın, Sait Karakurt</td>
</tr>
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TP-19 in thematic poster: COVID imaging and diagnosis

**Session 149**

**13:00 - 14:00**
PA1059  Radiological findings of severe SARS-CoV-2 pneumonia: 1-year follow-up.
Lidia Perendreu Busquets (Sabadell, Spain), Lidia Zamudio Domingo, Saaoa Eizaguirre Anton, Marc Bonnin Vilaplana, Gladis Sabater Talaverano, Marina Belén Lescano Ponce, Ramon Oriols Martinez

PA1060  The ability of Lung High-Resolution Computed Tomography Severity Score to early identify COVID-19 patients who need respiratory support. A retrospective analysis of a monocentric Italian COVID-19 cohort.
emanuele gigardi (rome, Italy), Francesco Travaglino, Silvia Mazzaroppi, Carlo Alberto Mallio, Solange Fugger, Flavia Cristiano, Tommaso Grandi, Domenico Margiotta, Silvia Navarin, Michela Orrù, Giada Zoccoli, Pasquale D'Alessio, Carlo Cosimo Quattrocchi, Federica Sambuco

PA1061  COVID pneumoniae: Clinical and radiological follow-up of a prospective cohort
Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Sabrina Resnik, Eva Ailín Vallejos, Florencia Santtia, Laura Barria, Eugenia Perticone, Federico Felder, Mariano Sosa, Facundo Nogueira, Carlos Luna

PA1062  Pre-COVID determinants of COVID-19 diagnosis by clinician and RT-PCR in a general adult population
Eman Quraishi (göteborg, Sweden), Chiamaka Jibuaku, Daniil Lisik, Hanna Kankaanranta, Bright I Nwaru

PA1063  Comparison of clinician diagnosis of COVID-19 against real-time polymerase chain reaction in a general adult population
Daniil Lisik (Gothenburg, Sweden), Chiamaka Jibuaku, Eman Quraishi, Hanna Kankaanranta, Bright I Nwaru

PA1064  Does the accuracy of clinician diagnosis of COVID-19 compared to RT-PCR in adults depend on the number and severity of comorbidities?
Daniil Lisik (Gothenburg, Sweden), Chiamaka Jibuaku, Eman Quraishi, Hanna Kankaanranta, Bright I Nwaru

PA1065  Clinical, functional and radiological long-term follow-up of pneumonia cases treated for COVID-19
Miraç Öz (Ankara, Turkey), Ashkan Gürün Kaya, Ogüzi Velioğlu Yakut, Sema Nur Doğru, Serhat Erol, Fatma Çiftci, İrem Akdemir Kalkan, Güle Çınar, Neriman Değirmen Altuntas, Çağlar Uzun, Aydın Çiledağ, Kemal Osman Memikoğlu, Akın Kaya, Öznur Yıldız, Oya Kayacan, Özlem Özdemir Kumbasar, Sevgi Saryal

PA1066  Exhaled Breath Condensate (EBC) for SARS-CoV-2 diagnosis still an open debate.
Paola Pierucci (Bari, Italy), Maria Chironna, Daniela Loconsole, Mariagrazia Tummolo, Lavinia Palma, Marianna Cicchetti, Giovanni Sansari, Sara Piccincco, Giovanna Elisia Carpeggiano

PA1067  Contribution of SARS-CoV-2 antigen rapid diagnostic tests for diagnosis of SARS-CoV-2 infection among health care professionals
Nidhal Belloumi (la soukra, Tunisia), Mariem Mersni, Wiem Ayed, Najla Mechergui, Dorra Brahim, Rania Nakhli, Emna Bechrifa, Nizar Ladhari, Imen Youssef

PA1068  Comparison of a point-of-care and a standard RT-PCR assay for COVID-19 detection in the emergency department.
Christos Kampolis (Nikea, Greece), Sabrina Gkogka, Panagiotis Varsos, Efthimia Pavlou, Ilka Babatseva-Vagena, Dimitrios Tsartsalis, Sotiris Adam, Apostolos Drolias, Georgios Charalambous

PA1069  Detection of COVID-19 in hospitalised patients by exhaled breath analysis
Abraham van Poppel (Edegem, Belgium), Eline Janssens, Veronique Verplancke, Johanna Kwakkel-Van Erp, Lore Vandermeersch, Gynaika De Coster, Mariangela Carbone, Mariam Taffs, Efthimia Pavlou, Ilka Babatseva-Vagena, Dimitrios Tsartsalis, Sotiris Adam, Apostolos Drolias, Georgios Charalambous

PA1070  Analysis of Volatile Organic Compounds in Exhaled Breath of COVID-19 Patients
Tiar Oktavian (SURABAYA, Indonesia), Im Noor Chozin, Suryanti Dwi Pratiwi

PA1071  Radiological sequelae in patients with ARDS due to SARS-CoV-2 pneumonia
Yolanda Galea Colón (Barcelona, Spain), Anna Mola Ausió, Núria Angrill Sellés, Mireia Baiges Badia, Santiago Mora Acosta, Enric Barbetta Sanchez

PA1072  Factors influencing the radiological evolution of COVID19 pneumonia
Hela Cherif (Tunis, Tunisia), Selmik Kahloussi, Bochra Karaboni, Mariem Triki, Ferdaous Yangui, Med Ridha Charfi

PA1073  Clinical and radiological outcomes in patients with COVID-19 organizing pneumonia
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Noorul Afidza Muhammad, Mona Zaria Nasaruddin, Jamalul Azizi Abdul Rahaman

TP-2 in thematic poster  Session 150  13:00 - 14:00
area
Thematic poster: Clinical problems in pleural and respiratory muscle disorders
Disease(s) : Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care, Sleep and breathing disorders
Method(s) : General respiratory patient care, Surgery, Epidemiology, Imaging, Physiology, Pulmonary function testing, Cell and molecular biology, Public health, Respiratory intensive care, Endoscopy and interventional pulmonology
Chairs: Anne Orholm Nielsen (Roskilde, Denmark), Shailesh Balasaheb Kolekar (Herlev, Denmark)

PA1074 Pacemaker insertion and pneumothorax: experience from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom), Karl Jackson

PA1075 An analysis of 'errors' in pleural medicine over 5 years from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom)

PA1076 Day case thoracoscopy in a UK district general hospital
Karl Jackson (Newcastle Upon Tyne, United Kingdom), Avinash Aujayeb

PA1077 Blood pleurodesis - A UK wide survey and call for collaboration
Avinash Aujayeb (Newcastle, United Kingdom)

PA1078 Birt-Hogg-Dubé (BHD) syndrome in patients with spontaneous pneumothorax (SP). Preliminary result shows high prevalence of BHD in SP patients.

PA1079 Pneumatocele as rare thoracic complication after recovering COVID-19 pneumonitis - a case series including literature review.
Katarzyna Zimna (Warszawa, Poland), Małgorzata Sobiecka, Katarzyna Lewandowska, Ewa Łyżwa, Dorota Wyrostkiewicz, Monika Szturnowicz, Kazimierz Roszkowski-Sliż, Katarzyna Błasińska, Lilja Jakubowska, Witold Tomkowski

PA1080 Observation of traumatic haemo-pneumothorax
Avinash Aujayeb (Newcastle, United Kingdom)

PA1081 Clamping vs non-clamping strategies prior to removal of ICD for spontaneous pneumothorax.
Arshiya Mastan (Manchester, United Kingdom), Aqeem Azam, Patrick Bradley, Claire Baker, Ijaz Mohammed, Jennifer Nixon

PA1082 Decellularised pleural membranes in pulmonary regenerative medicine
Trisha Vikranth (Stone, United Kingdom), Tina Dale, Nicholas Forsyth

PA1083 Prevalence of pleural effusion in dengue: systematic review and meta-analysis
Molly D. Kaagaard (Copenhagen, Denmark), Luan Oliveira Matos, Marlton V. P. Evangelista, Alma Wegener, Karine O. Lima, Anna Engell Holm, Lasse S. Vestergaard, Suiane C. N. Do Valle, Rodrigo M. De Souza, Flavia Barreto Dos Santos, Tor Biering-Sorensen, Odilson M. Silvestre, Philip Brainin

PA1084 Pulmonary infarct in post COVID-19 period, complicated with spontaneous pneumothorax – case report.
Ivan Novakov (Plovdiv, Bulgaria), Plamena Novakova

PA1085 Pneumothorax following cardiac device insertion: experience at a tertiary centre in the United Kingdom>
Shiva Bkimalla (Stoke-on-Trent (Staffordshire), United Kingdom), Nishita Padmanabhan, Muhammad Tariq, Mohammed Hussain, Adil Mohammed, Muhammad Shacker, Hussain Ebrahim

PA1086 Management of pneumothoraces cases in a district general hospital in London
Ranu Baral (London, United Kingdom), Kar Mun Ang, Sivanantham Sasikumar

PA1087 Trajectory of dyspnoea in patients with unilateral pleural effusion following thoracentesis.
Katrine Fjællegaard (Farum, Denmark), Jesper Koefod Petersen, Paul Frost Clememtsen, Christian B. Laursen, Rahul Bhattachar, Uffe Bodtger

PA1088 Cardioprotective medication in Duchenne muscular dystrophy: a single-centre cohort study
Janneta Kisel (London, United Kingdom), Emily Ballard, Suh Eui-Sik, Nicholas Hart, Shelley Srivastava, Patrick Murphy, Philip Marinos, Stam Kapetanakis, Joerg Steier

PA1089 Predictors for outcome of intervention for spontaneous pneumothorax
Andreas Thelle (Bergen, Norway), Miriam Gjerdevik, Rune Nielsen, Per Bakke

PA1090 Impact of drug addiction on the outcome of pneumothorax
Emma Benjemia (Tunis, Tunisia), Khouloud Chaabi, Yosr Ben Attig, Nourchene Khalfallah, Jihene Ben Amar, Med Sadok Boudaya, Zaibi Haifa, Hichem Aouina

PA1091 Respiratory muscle dysfunction in patients with nemaline myopathy
Esme van Kleef (Nijmegen, Netherlands), Jeroen Van Doorn, Michael Gaytant, Willemien De Weerd, Bettine Vosse, Carina Wallgren-Pettersson, Baziwel Van Engelen, Coen Ottenheijm, Nicol Voermans, Jonne Doorduijn
Association between aberrant biochemical indicators levels and respiratory muscles dysfunction in patients with amyotrophic lateral sclerosis (ALS). Preliminary data.
Grazia Crescimanno (Palermo (PA), Italy), Manuela Bertini, Francesca Milone, Oreste Marrone

Optimizing invasive ventilation for SMA type 1 children who are receiving the gene therapy
Rania Abusamra (Dubai, United Arab Emirates), Omi Narayan, Mohammad Alajjuri, Vivek Mundada

**TP-20 in thematic poster area**

**Session 151**
13:00 - 14:00

**Thematic poster: Pleural and other respiratory infections**

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

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

**Chairs:** Monika Bratová (Brno 35, Czech Republic), Poppy Denniston (London, United Kingdom)

**Microbiological analysis and empirical antibiotic preference in complicated pleural infections**
Seda Tural Önür (Istanbul, Turkey), Eminegül Yavuzsan, Fatma Tokgöz Akyil, Mustafa Vedat Doğru, Levent Cansever, Sedat Altan

**The microbiology of adult pleural infection in an Egyptian hospital**
Maged Hassan (Alexandria, Egypt), Mohamed Gadallah, Asmaa Elshazly, Basma El-Shaarawy, Ahmed Sadaka

**Ambulatory management of bronchopleural fistulae secondary to empyema**
Joanna Davy (Ipswich, United Kingdom), Po Tang, Mathew Burton

**Nursing administration of Alteplase and Dornase Alfa in empyema**
Hussun-Ara Shah (Newcastle upon Tyne, United Kingdom), Thomas Fretwell, Gemma Stiller, Sarah Bain

**USE AND EFFECTIVENESS OF INTRAPLEURAL FIBRINOLYTICS IN COMPLICATED PARAPNEUMONIC EFFUSIONS AND EMPYEMAS**
Fotios Sampsonas (Patra, Greece), Maria Lagadinou, Maria Mpougou, Ioannis Picliknski, Theodoros Karampitsakos, Ourania Papaioannou, Matthias Katsaras, Panagiota Tsiri, Giorgos Tsirikos, Eirini Zarkadi, Vasilina Sotiropoulou, Argyrios Tzouvelekis

**A feasibility randomised trial comparing therapeutic thoracentesis to chest tube insertion for the management of pleural infection: results from the ACTion trial.**
David Arnold (Bristol (Avon), United Kingdom), Emma Tucker, Anna Morley, Alice Milne, Louise Stadon, Sonia Patole, George Nava, Steven Walker, Nick Maskell

**Management and outcomes of patients with pleural empyema**
Nesrin Kallel (Sfax, Tunisia), Molka Abdelkefi, Ahmed Dhia El Euch, Moustapha Hamoudi, Sourour Abid, Walid Feki, Samy Kammoun

**Lung abscess is associated with COPD, use of sedatives and a high mortality: A retrospective cohort study**
Søren Sperling (Aarhus N, Denmark), Jakob Kirkegaard Vaarst, Søren Sperling Haugen, Victor Naetholt Dahl, Andreas Fløe Hvass, Christian Borbjerg Laursen, Elisabeth Bendstrup

**Lung hydatidosis treatment: which are the associated morbidity and mortality risk factors?**
Abdessalem Bentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Walid Abid, Imed Frihka

**An unusual cause of infection in immunocompetent individuals: A case series**
Hari Kishan Gonuguntla (SECUNDERABAD, India), Don Gregory Mascarenhas, Roshan Kumar, Preeti Vidyasagar, Sravani Reddy, Samia Syeda

**Valaciclovir for Epstein-Barr virus suppression in Chronic Obstructive Pulmonary Disease: A Randomised Controlled Trial (EVISO)**
Dermot Linden (Belfast, United Kingdom), Hong Guo-Panke, Michael Mckelvey, Gisil Einarsson, Andrew Lee, Derek Fairley, Vanessa Brown, Danielle Logan, Christina Campbell, Dave Singh, Michael Tunney, Danny Meauley, Cliff Taggart, Joe Kidney

**Pulmonary hydatid disease: clinical and radiographic features**
Alia Ezzouaouia (Tunis, Tunisia), Ines Akrou, Hela Hassene, Hela Kamoun, Yosra Bellil, Hend Ouertani, Hadhemi Rejeb, Dorra Greb, Hanene Smadhi, Hager Ben Abdelghaffar, Leila El Euch, Mohamed Lamine Megdiche

**Pulmonary infection characteristics leading to respiratory failure, a modelling approach.**
Frédérique NOEL (Paris, France), Benjamin Mauroy
Tolerance and safety of inhaled hypertonic saline solutions in patients with chronic bronquial infection.

Diurbis Josefina Velasco Álvarez (Madrid, Spain), Diego Durán Barata, Rosa Nieto Royo, Raquel Morillo Guerrero, Aurora Solier López, Carlos Almonacid Sánchez, Esther Barbero Herranz, Beatriz Pintado Cort, Andrea Pérez Figuera, Luis Máiz Carro

The contribution of bronchoscopy in the diagnosis of pulmonary hydatid cyst

Zakaria Laklai (casablanca, Morocco), Khadija Channoune, Nahid Zaghba, Hanane Benjelloune, Najiba Yassine

Human tularemia in Southern Germany: a case series

Marion Heiß-Neumann (Gauting, Germany), Marianne Vacca

Saccharomyces boulardii in the prevention of antibiotic-associated diarrhea in hospitalized adult patients with lower respiratory tract infections

Branislava Milenković (Beograd, Republic of Serbia), Ilija Andrijevic, Sanja Dimic Janjic, Senka Milutinov Ilic, Ivan Kopitovic, Mihailo Stjepanovic, Ana Andrijevic, Jelena Jankovic, Svetlana Mitrovic

Bacterial biofilms predominate in both acute and chronic human lung infections

Mette Kolpen (Copenhagen, Denmark), Kasper Nørskov Kragh, Juan Barraza Enciso, Daniel Faurcholt-Jepsen, Birgitte Lindegaard, Gertrud Baunbek, Egeland, Andreas Vestergaard, Jensen, Pernille, Raven, Inger Hee Mabuza, Mathiessen, Alexandra Gabriella Gheorghe, Frederik Boëtius Hertz, Tavs Qvist, Marvin Whiteley, Peter Østrup Jensen, Thomas Bjørnholt

Pleuron pneumonia caused by Nocardia cyriacigeorgica in a 14-year-old girl with PCD

Ruth Maria Urbantat (Berlin, Germany), Charlotte Pioch, Niklas Ziegahn, Mirjam Stegemann, Mirjam Stahl, Marcus A. Mall, Jobst F. Röhmel

Integrated microbiome-mucus profiling in chronic obstructive pulmonary disease (COPD)


TP-21 in thematic poster area

Session 152 13:00 - 14:00

Thematic poster: Vaccination

Disease(s): Airway diseases

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

Chairs: Eric Mortensen (Simsbury, United States), Laura Fregonese (London, United Kingdom)

COVID-19: Vaccinated versus unvaccinated or not fully vaccinated patients

Antonia Digalaki (Athens, Greece), Georgios Hillas, Sofia Koukidou, Aikaterini-Ioanna Sakellaropoulou, Chrysavigi Kosti, Serafeim Chrysiskos, Katerina Dimakou

Clinical characteristics and respiratory care of hospitalized patients according to vaccination status of COVID 19

Miguel Suarez Ortiz (madrid, Spain), Jose Rafael Teran Tinedo, Miguel Lorente Gonzalez, Daniel Laorden Escudero, Annette Zevaillos Villaga, Eduardo Cano Sanz, Maria Angeles Ortega Fraile, Joaquin Hernandez Nuñez, Maria Elena Saiz Lou, Pedro Landete Rodriguez

Determinants of antibody responses to primary courses and booster doses of SARS-CoV-2 vaccines in 9,101 UK adults

Adrian R Martineau (London, United Kingdom), David A Jolliffe, Sian E Faustini, Hayley Holt, Mohammad Talaei, Giulia Vivaldi, Alex G Richter, Seif O Shaheen

Effectiveness of the pneumococcal polysaccharide and conjugated vaccines in elderly and high-risk populations in preventing invasive pneumococcal disease: A systematic search and review of the literature

Melina Sikjer (Egå, Denmark), Mari Stenvold Wik, Synne Smith Stensholt, Ole Hilberg, Anedrs Løkke

Vaccine efficacy in severe COVID-19 patients before and after the Delta variant endemic

Masamichi Minesshita (Kawasaki (Kanagawa), Japan), Kazuhiro Nishiyama, Satoshi Tanaka, Yusuke Shinozaki, Junko Shibuya, Hajime Tsuruoka, Kouhei Kinoshita, Shin Matsuzawa, Shinya Azagami, Hirom Matsuzaka, Atsuko Ishida, Kei Morikawa, Hirotaka Kida, Hiroshi Handa, Hiroki Nishine, Takeo Inoue

Immunogenicity and clinical effectiveness of the SINOVAC vaccine in patients older than 70 years

Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni García Castro
PA1120 Long-term efficacy of an inactivated whole particle H5N1 virus against H5N1 highly pathogenic avian influenza virus challenge in cynomolgus monkeys
Misako Nakayama (Otsu, Japan), Hirohito Ishigaki, Nguyen Thanh Cong, Saori Suzuki, Hideaki Ishida, Naoko Kitagawa, Kazumasa Ogasawara, Yasushi Itoh

PA1121 Evaluating pneumococcal vaccine’s effectiveness against pneumonia among adults over 50 years in Catalonia, 2017-2018.
cinta de diego cabanes (tarragona, Spain), Angel Vila-Corcoles, Eva Satué-Gracia, Olga Ochoa-Gondar, Angel Vila-Rovira, M José Forcadell-Peris

PA1122 Messenger RNA COVID-19 vaccine: What side effects?
Nidhal Belloumi (la soukra, Tunisia), Wiem Ayed, Dorra Brahim, Wala Haouari, Najla Mechergui, Ghada Bahri, Nizar Ladhari, Imen Youssef

PA1123 Experimental Human Pneumococcal Challenge can be performed safely and is associated with low rates of rescue antibiotic use in healthy adults
Ryan Robinson (Liverpool, United Kingdom), Chris Myerscough, Helen Hill, Wendi Shephard, Konstantinos Liatsikos, Samuel Latham, Fred Fyles, Klara Doherty, Fathimath Shiham, Daniella McLenghan, Angela Hyde-Wright, Elena Mitsi, Hassan Burhan, Ben Morton, Stephen Gordon, Andrea Collins, Daniela Ferreira

PA1124 Reasons for reluctance to covid-19 vaccination among health care workers
Nidhal Belloumi (la soukra, Tunisia), Siwar Chemingui, Najla Mechergui, Mariem Mersni, Dorra Brahim, Hend Belhouen, Nizar Ladhari, Imen Youssef

PA1125 Efficacy of corona virus disease 2019 vaccines on oxygen demand, intensive care unit administration and mortality: a single centre retrospective study
Havva Yeşildağlı (Nicosia, Cyprus), Birdal Cihangir, Belin Kamiloğlu

PA1126 Attitudes of the health personnel of the Hassan II hospital in Agadir towards the 3rd dose of the vaccine anti-covid-19
Aboubekr Imzil (Agadir, Morocco), Houda Moubachir, Hind Serhane

PA1127 Evaluation of lung immune response to the BNT162b2 COVID-19 vaccine
Dan Padawer (Jerusalem, Israel), Miri Stolovich-Rain, Maria Billan, Neville Berkman, Alexander Rouvinski

PA1128 Clinical outcomes in vaccinated and unvaccinated patients with COVID-19: a population-based analysis
Ourania Papaioannou (Patras, Greece), Theodoros Karampitsakos, Panagiota Tsirri, Vasilina Sotropouloou, Electra Koulousoua, Panagiotis Tasiopoulos, Chariklea Chourpiliadi, Apostolos Masioulas, Matthaios Katsaras, Eirini Zarkadi, Georgios Tsirikos, Eva Theohari, Elli Malakoundou, Vasiliki Georgiopoulou, Dionysios Papalexatos, Fotios Sampsonas, Argyrios Tzouvelekis

PA1129 Personalized predictions of adverse side effects to the COVID-19 vaccines
Nahal Mansouri (Lausanne, Switzerland), Elham Jamshidi, Amirhossein Asgari

PA1130 Factors affecting vaccine acceptance and uptake among COPD patients.
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Zsofia Szarvas, Vince Fazekas-Pongor, Andrea Lehoczki

PA1131 Breakthrough infections with SARS-CoV-2 B.1.617.2 variant B.1.617.2 and humoral response in vaccinated maintenance hemodialysis patients
Ori Wand (Kfar Sava, Israel), Naomi Nacasch, Sydney Benchetrit, Keren Cohen-Hagai

PA1132 Assessment of Predictors for SARS-CoV-2 Antibodies Decline Rate in Health Care Workers after BNT162b2 Vaccination-Results from a Serological Survey
Amir Bar-Shai (Tel-Aviv, Israel), Nadav Zacks, Chezy Levi, Anna Breslavsky, Shlomo Maayan, Evgeniya Tsiba, Shlomo Fyglovich, Ori Wand, Moshe Shaffer, Yaniv Sherez, Gili Givaty, Anat Tzurel Ferber, Michael Tal, Natalya Bilenko

PA1133 The intensive care unit admissions and mortality rates of the Covid-19 patients whose chest imaging findings were progressed during hospitalization: Is there any difference between vaccinated or unvaccinated patients?
Emine Kamiloğlu (lefkosa, Cyprus), Birdal Cihangir

TP-22 in thematic poster  Session 153  13:00 - 14:00
Thematic poster: Diagnostics and biomarkers in lung cancer
Disease(s) : Thoracic oncology Airway diseases
Method(s) : Endoscopy and interventional pulmonology Cell and molecular biology Surgery Imaging Epidemiology General respiratory patient care
PA1134
Detection of micrometastases in mediastinal lymph nodes by haematological analyser and flow cytometry-pilot study.
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Joanna Bednarek, Rafał Sokołowski, Agata Raniszewska, Karina Jahnz-Różyk, Piotr Rzepecki, Joanna Domagała-Kulawik

PA1135
Computed tomography derived body composition analysis predicts cachexia and survival in patients with lung cancer
Teresa Kerkhoff (Essen, Germany), Johanna Pappisch, Nicolas Linder, Harald Busse, Albrecht Gläser, Sabine Taubenheim, Hartmut Kuhn, Hubert Wirtz, Armin Frille

PA1136
Volatile biopsies in personalized molecular diagnosis and follow-up of lung adenocarcinoma
Ozlem Goksel (Izmir (Bornova), Turkey), Aslı Tetik Vardarlı, Levent Pelit, Tugberk Nail Dizdas, Su Ozgur, Ceyda Aldag, Korcan Korba, Caglar Celebi, Ertan Baysal, Fusun Pelit, Ali Veral, Yasemin Bashinar, Cumhur Gunduz, Tuncay Goksel

PA1137
Proportion of mediastinal lymph nodes that cross predefined borders on the IASLC map.
Øyvind Yksnøy (Ålesund, Norway), Dag Arne Liaug Hoff, Bjørn Henning Grønbereg, Sveinung Sørhaug

PA1138
Mediastinal "deep freeze" - transthoracic lymph node cryobiopsy
Evgeni Gershman (Givataim, Israel), Alon Ikan, Barak Pertzov, Dror Rosengarten, Mordechai Kramer

PA1139
Malignant pleural effusion (MPE) diagnosis with medical thoracoscopy (MT) compared with conventional approaches
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

PA1140
Correlation of PD-L1 expression on tumour cells between diagnostic biopsies and surgical specimens of lung cancer in real life with respect to biopsy techniques and neoadjuvant treatment
Daniela Gompelmann (Vienna, Austria), Katharina Sinn, Jonas Brugger, Dominik Bernitzky, Berta Mosleh, Helmut Prosch, Silvana Geleff, Alissa Blessing, Andreas Tiefenbacher, Konrad Hoetzenecker, Marco Idzko, Mir Aliresa Hoda

PA1141
A comparison of the biopsy techniques for tissue subtyping and molecular profiling in non-small-cell lung cancer: is tissue an issue?
Parniya Arooj (Plymouth, United Kingdom), Irfan Zaki, Maged Fayed, Hem Rai, Katherine Syred, Rob Hadden, Lindsey Taylor, Timothy Howell, Thomas Nicholson, John Corcoran, Cyrus Daneshvar

PA1142
Clarifying oligometastatic non-small cell lung cancer in patients with local ablative therapies for oligoprogression after tyrosine kinase inhibitors
Dong-gon Hyun (Seoul, Republic of Korea), Yoon Jung Jang, Wonjun Ji, Chang-Min Choi, Dae Ho Lee, Sang-We Kim, Shinkyo Yoon, Woo Sung Kim, Jae Cheol Lee

PA1143
N2 institutional consensus on Non-Small Cell Lung Cancer (NSCLC)
Hind Eid (Beirut, Lebanon), Antoine El Kik, Elias Karam, Ammar Chamaa, Bassem Habr, Fadi El Karak, Hamig-Raphael Kourie, Fares Azouri, Viviane Smayra, Noel Aoun, Joseph Kattan, Georges Chahine, Marwan Ghosn, Jad Wakim, Hussein Nasserddine, Fadi Nasr, Georges Khayat, Joseph Nakad, Carine Harmouche, Georges Dabar, Georges Tabet, Zeina Aoun, Moussa Riachi

PA1144
Detection of EGFR mutation status on pleural fluid samples in patient with lung adenocarcinoma
Alessio Navarra (Harlow, United Kingdom), Anthony Maddox, Andrew Barlow, Rahul Mogal

PA1145
Impact of COVID-19 (C19) on EBUS-TBNA
Abhimanyu Lal (Solihull (West Midlands), United Kingdom), Muhammad Bilal Khan Niazi, See Ling Tan

PA1146
Trans thoracic CT-guided fine-needle biopsy of pulmonary lesions, predictive factors for complications and accuracy of diagnosis
Kristina Piotkovskaya, Eva Radeka, Sven Nyrén, Reza Karimi

TP-23 in thematic poster Session 154 13:00 - 14:00 area

Thematic poster: Comorbidities and symptoms in interstitial lung diseases think out of the box

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

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

Chairs: Laurens De Sadeleer (Leuven, Belgium), Sabina A. Guler (Bern, Switzerland)
Clinical and biological impact of respiratory sleep disorders in IPF
Jaume Bordas Martinez (Barcelona, Spain), Neus Salord, Vanesa Vicens Zygmunt, Rosana Blavia Aloy, Sandra Pérez Ramos, Eliseo Prado Gála, María D. Calvo Sánchez, Guadalupe Bermudo, Jesús Ríos Martín, Salud Santos, María Molina-Molina*, Carmen Monasterio*

Development of scoring system for the prediction of pulmonary complications following curative resection in lung cancer with idiopathic pulmonary fibrosis
Hongseok Yoo (Seoul, Republic of Korea), Yunjoo Im, Man Pyo Chung

Nintedanib in patients with progressive fibrosing ILDs in subgroups by comorbidity burden
Elisabeth Bendstrup (Aarhus N, Denmark), Teng Moua, Masaki Okamoto, Sara Tomassetti, Claudia Valenzuela, Wim A Wuys, Corinna Miede, Dirk Lievens, Francesco Bonella

Idiopathic pulmonary fibrosis and palliative care: a qualitative exploration of nurses’ experiences.
Grace O'Sullivan (Cork, Ireland), Chanel Watson, Bridget Murray

Triggers and impact of chronic cough in interstitial lung disease
Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Louise Wright, Emma Pelling, Peter S P Cho, Surinder S Birring

Neurocognitive impairment in patients with idiopathic pulmonary fibrosis
Ana Milenković (Novi Sad, Republic of Serbia), Jovan Javorac, Dejan Živanović, Miroslav Ilić, Nevena Savić, Miloš Cvetkovic

Impact of weight loss on outcomes in patients with progressive fibrosing interstitial lung diseases (ILDs)
Michael Kreuter (Heidelberg, Germany), Elisabeth Bendstrup, Toby M Maher, Yoshikazu Inoue, Corinna Miede, Dirk Lievens, Bruno Crestani

Effects of influenza vaccination in patients with interstitial lung diseases: an epidemiological claims data analysis
Michael Kreuter (Heidelberg, Germany), Pavo Marijic, Larissa Schwarzkopf, Werner Maier, Franziska Trudzinski, Lars Schwettmann

Patients’ perceptions of interstitial lung disease (ILD)
Vijay Joshi (Edgware, Middlesex, United Kingdom), Arisa Reka, Lizan Drummonds

“The will to live!” The perceptions of patients with idiopathic pulmonary fibrosis (IPF) in relation to antifibrotic treatment: a qualitative study
Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Liliane Neto Generoso, Tais Mancuzo De Freitas, Marcella Guimaraes Assis

Oesophageal Dysmotility: Does it Play a Role in Interstitial Lung Diseases?
Dominic Sykes (Hull, United Kingdom), Simon P Hart, Michael G Crooks, Warren Jackson, John Gallagher, Alyn H Morice

Non-tuberculous mycobacterial pulmonary disease in patients with idiopathic pulmonary fibrosis Non-tuberculous mycobacterial pulmonary disease in patients with idiopathic pulmonary fibrosis
Jin-Young Huh (Republic of Korea), Kyung-Wook Jo, Tae Sun Shim, Jin Woo Song

Deterioration of 6-minute walk distance in Idiopathic pleuroparenchymal fibroelastosis is not related to the disease entity
Satoru Ebihara (Tokyo, Japan), Naofumi Sato, Takae Ebihara

Psychological assessment and intervention in IPF patients
Leonardo Rovere (Milano, Italy), Stefania Pozzi, Emanuela De Juli, Sabrina Agostina Amatucci, Giorgio Ziglio, Paolo Tarsia, Umberto Mazza

Impact of intrathoracic pressure in the assessment of central pulmonary pressures in COPD and ILD candidates for lung transplantation.
Juan Grignola (Montevideo, Uruguay), Alvaro Calabuig, Carlos Bravo, Pedro Trujillo, Manuel López-Messeguer, Enric Domingo

Physiological assessment and intervention in IPF patients
Leonardo Rovere (Milano, Italy), Stefania Pozzi, Emanuela De Juli, Sabrina Agostina Amatucci, Giorgio Ziglio, Paolo Tarsia, Umberto Mazza

Interstitial Lung Disease: The Forgotten Patient
Heidi Prior (Greater Manchester, United Kingdom), Hashim Hameed, Alison Unsworth, Adele Watmough, Abdul Ashish

A Comparison of Survival in IPF, Emphysema and CPFE Syndrome
Christopher C. Huntley (Bromsgrove, United Kingdom), Michael N. Armitage, Pathrabal Mitra, Maximillian Thomas, P. Sherwood Burge, Gareth I. Walters, Alice M. Turner
Loss of muscle mass in Idiopathic Pulmonary Fibrosis
Nicol Bernardinello (Trecenta (RO), Italy), Simone Petrarulo, Giulia Grisostomi, Antonella Modugno, Sofia Bertin, Dylan Pasin, Elisabetta Cocconcelli, Paolo Spagnolo, Chiara Giraudo, Elisabetta Balestro

Late Breaking Abstract - Association between the Use of Statins and Incidence of Interstitial Lung Disease/Idiopathic Pulmonary Fibrosis: A Cohort Study
Won-II Choi (Goyang-si, Republic of Korea), Gjustina Loloci, Dong Yoon Lee, Jiheyeon Jeong

Late Breaking Abstract - The interstitial lung disease (ILD) patient journey in Brazil
Adalberto Sperb Rubin (Porto Alegre (RS), Brazil), Licia Mota, Rodrigo Scabello, Carla Cruz, Henrique Silva

TP-24 in thematic poster area
Session 155 13:00 - 14:00

Thematic poster: Advances in rare interstitial lung diseases

Disease(s): Interstitial lung diseases

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

Chairs: Ivette Buendia Roldán (México D.F, Mexico), Raphaël Borie (Paris, France)

Is YouTube a reliable source for patient information in lymphangioleiomyomatosis?
Finn Wilkens (Heidelberg, Germany), Claudia Ganter, Katharina Kriegsmann, Heinrike Wilkens, Nicolas Kahn, Gillian C. Goobie, Christopher J. Ryerson, Michael Kreuter

Respiratory lesions of IgG4-related disease classified by 2019 ACR/EULAR criteria: A retrospective study
Masamichi Komatsu (Matsumoto, Japan), Hiroshi Yamamoto, Shoko Matsui, Yasuhiro Terasaki, Akira Hebisawa, Tae Iwasawa, Takeshi Johkoh, Tomohisa Baba, Atsushi Miyamoto, Tomohisa Handa, Keisuke Tomii, Yuko Waseda, Masashi Bando, Haruyuki Ishii, Yasunari Miyazaki, Akihiko Yoshizawa, Tamiko Takemura, Yoshinori Kawabata, Masayuki Hanaoka, Takashi Ogura

Lane-hamilton syndrome and CCF: a fatal association
Salman Ayyaz (Multan, Pakistan), Shakeel Ahmed Khan, Faisal Zaheer, Mudassar Rasool, Waqas Afzal

LYMPHANGIOLEIOMYOMATOSIS AND GENETICS

Marta Garcia Moyano (Barakaldo, Spain), Leticia Ceberio Hualde, Beatriz González Quero, Imanol González Muñoz, Francisco Javier Martínez Núñez, Marta Lázaro Serrano, Ainhoa Gandiaga Mandiola, Blanca Gener Querol

Antifibrotic therapy on progressive fibrotic lung disease non-IPF – a retrospective cohort
Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Sérgio Campainha, Carla Nogueira, Inês Marques, Sofia Neves Zucchetti, Paola Faverio

The role of BAL in a long Covid population.
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Umberto Zanini, Angelo De Laurentis, Giuseppe Pepe, Stefano Zucchetti, Paola Faverio

Right ventricle to arterial uncoupling is a mortality predictor in fibrotic interstitial lung diseases
Angelo Canora (Napoli (NA), Italy), Ciro Santoro, Agostino Buonaruo, Gaetano Rea, Mario Enrico Canonico, Roberta Esposito, Alessandro Sanduzzi Zamparelli, Giovanni Esposito, Marialuisa Bocchino

Inflammatory profile of bronchoalveolar lavage in pulmonary Langerhans cell histiocytosis
Diego Castillo Villegas (Barcelona, Spain), Silvia Barril, Diego Castillo, Paloma Millán, Alfonso Luque, Paloma Acebo, Sonsoles Hortaleno

Characteristics, similarities and differences comparing fibrotic alveolar to airway basal cells
Sabrina Blumer (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Michael Tammi, Katrin Hostettler

Survival and mortality associated factors in progressive fibrosing interstitial disease
Hafia Zaibi (Tunis, Tunisia), Khouloud Chaibi, Emma Ben Jemia, Nourchene Khalfallah, Jihen Ben Amar, Hichem Aouina

Management of bronchiolitis obliterans in a group of Tunisian children
Amal Saidani (Bizerte, Tunisia), Sabrine Louhaichi, Mariem Hamdi, Olfa Ben Moussa, Besma Hamdi, Ikbel Khalfallah, Jamel Ammar, Agnes Hamzaoui

Idiopathic Inflammatory Myopathy-associated Interstitial Lung Disease (IIM-ILD): does radiologic features matter?
Gioele Castelli (Padova, Italy), Elisabetta Cocconcelli, Elisabetta Zanatta, Chiara Giraudo, Nicol Bernardinello, Cristina Dartora, Luca Iaccarino, Paolo Spagnolo, Elisabetta Balestro
Thematic poster: Suspicion and management of pulmonary embolism

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

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

Chairs: Cécile Tromeur (Locmaria Plouzané, France), Benjamin Planquette (Paris, France)

**Adjusted D-dimer cutoff levels to rule out pulmonary embolism in patients hospitalized for COPD exacerbation: results from de SLICE trial**

David Jiménez Castro (Madrid, Spain), Sara Gonzalez Castro, Carmen Rodríguez Calle, Luis Jara Palomares, Eva Tabernero Huguet, Andrés Tenes Mayen, Winnifer Briceno Franquiz, Jose Luis Lobo Beristain, Raquel Morillo Guerrero, Behnoud Bikdeli

**Cellular indices and outcome in patients with acute venous thromboembolism.**

Amina Bekki (València (Comunidad Valenciana), Spain), Alberto García-Ortega, Raquel López-Reyes, Grace Oscullo, Thais Beauprethuy, Fakiha Siddiqui, Jawed Fareed, José Daniel Gómez-Olivas, Miguel Ángel Martínez-Garcia, Manuel Monreal

**Differences in patients with pulmonary embolism according to in-hospital or home therapy: findings in the RIETE registry**

Cristhían Correa (Madrid, Spain), Zichen Ji, Javier De Miguel Diez, Rodrigo Jiménez García, Ana López De Andrés, Pedro Parra, Andrei Braester, Andris Skride, Maria Del Carmen Diaz-Pedroche, Marina Lumbierres, Manuel Monreal

**CHRONIC THROMBOEMBOLIC DISEASE AFTER ACUTE PULMONARY EMBOLISM RELATED TO SARS-CoV-2**

Oswaldo Antonio Caguana Vélez (Barcelona, Spain), Oswaldo Antonio Caguana Vélez, Karys Helena Khilzi Alvarez, Juan Jose Rodriguez-Sevilla, Diana Badenes Bonet, Judith Villar Garcia, Jose Gregorio Gonzalez Garcia, Anna Herranz Blasco, Mireia Admetillo Papiol, Anna Rodo Pin, Lluis Molina Ferragut, Eva Balcells Vilarnau, Diego A. Rodriguez Chiaradia

**Post-COVID-19 patients show vascular sequelae that last up to 6 months**

Paula Poyatos (Girona, Spain), Neus Luque, Saioa Ezaguirre, Sònia Belda, Marc Bonnin, Mònica Sánchez, Miriam Peracaula, Ramon Orriols, Olga Tura-Ceide

**Prospective study of pulmonary embolism in patients with SARS-CoV-2 pneumonia with high levels of D Dimer**

Joaquín Martínez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suárez Castillejo, Nuria Toledo Pons, Francisco De Borja Garcia-Cosio Piqueras, Luisa Ramon Clar, Belén Núñez Sánchez, Sara Hermoso De Mendoza, Nestor Calvo Rado, María Antonieta Ballesteros Bizoso, Paula Argente Del Castillo Rodríguez, Daniel Morell Garcia, Aina Millán Pons, Francisco Berga Montaner, Sara Sánchez Asis, Beatriz García García, Jaime Ausias Pons Linares, Luminita Marinela Preda Ungureanu, María Luisa Martin Pena, Juan Antonio Palmer Sancho, Jaume Sauleda Roig, Ernest Sala Llinas

**Persistent dyspnoea after acute pulmonary embolism is related to perfusion defects and lower long-term quality of life**

Coen van Kan (Amsterdam, Netherlands), Heleen Alblas, Suzanne Van Het Westeinde, Jasper Emmering, Andre Niezen, Ibrahim Al Butaihi, Anton Van Noordegraaf, Josien Van Es

**An optimized D-dimer cut-off value to predict pulmonary embolism in COVID-19 patients: a retrospective study**

Sophie Engels (Enschede, Netherlands), Ilonka Van Veen, Matthijs Prokop, Bram Van Den Borst

**Post-acute prevalence of occult pulmonary embolism after hospitalisation for Covid-19**

Esther L. van Voorthuizen (Nijmegen, Netherlands), Jeannette B. Peters, Jennyke Leentjens, Michel M. Van Den Heuvel, Mathias Prokop, Bram Van Den Borst

**D-dimer levels on admission to predict Venous thrombotic events in patients with Covid-19**

Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen ketata, Wafa Medi, Rahma Sellami, Hamida Kwass

**Anticoagulants in COVID-19: Is there a role for a D-dimer-driven dosing?**

Ömer Selim Unat (Izmir, Turkey), Ziya Karimov, Damlı Serçe Unat, Gizem Damar, Pakize Caglayan, Faiq Teymurlu, Mehmet Sezai Tasbakan, Pervin Korkmaz Ekren, Ozen Kacmaz Basoglu, Mustafa Hikmet Özhan, Abdullah Sayiner
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<th>PA1192</th>
<th>Investigation of the level of knowledge about Pulmonary Embolism in the general population</th>
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<td>Ourania Kotsiou (Larissa, Greece), Konstantinos Tourlakopoulos, Maria Tziraki, Dimitrios Raptis, Stylianos Boutlas, Georgia Rapti, Ioanna V Papathanasiou, Dimitrios Papagiannis, Zoe Daniil, Konstantinos I Gourgoulianis, Foteini Malli</td>
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**TP-26 in thematic poster area**

**Session 157**  
**13:00 - 14:00**

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<th>Thematic poster: Thoracic ultrasound: from central airways to the chest wall</th>
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<td><strong>Disease(s):</strong></td>
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<td><strong>Method(s):</strong></td>
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<td><strong>Chairs:</strong></td>
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**PA1193**  
Chest ultrasound description of bullous emphysema and comparison to pneumothorax: a prospective multicentre study

Kinan El Husseini (Paris, France), Thomas Flament, Sophie Laroumagne, Mathilde Le Brun, Elise Noël-Savina, Philippe Richard, Damien Basille, Gilles Mangiapan, Elise Artaud-Macari

**PA1194**  
Focused lung ultrasound versus conventional chest x-ray for detection of pneumothorax following CT-guided transthoracic needle biopsy

Pia Iben Pietersen (Odense NØ, Denmark), Emma Katrine Jeppesen, Amanda Dandanell Juël, Christian Laursen, Ole Graumann

**PA1195**  
Ultrasound monitoring of pneumothorax after CT-guided transthoracic lung biopsy

Pia Iben Pietersen (Odense NØ, Denmark), Nina Everloff, Amanda Dandanell Juël, Christian Laursen, Ole Graumann

**PA1196**  
SEARCHING FOR A ROLE OF TRANSTHORACIC ULTRASOUND IN SEVERE ASTHMA

Carla Maria Irene Quarato (Foggia, Italy), Donato Lacedonia, Marco Sperandeo, Maria Giovanna Palumbo, Paolo Fuso, Marcello Stomaci, Giorgia Lepore, Amarita Depalo, Maria Pia Foschino Barbara, Giulia Scioscia

**PA1197**  
M-mode obstruction index (MIO): an ultrasound method to evaluate presence and severity of airway obstruction in COPD patient

Elisa Riccardi (Massino Visconti, Italy), Massimo Comune, Giovanni Ferrari, Alessandro Oliva, Paolo Righini, Valter Gallo, Carlotta Geninatti, Roberto Prota

**PA1198**  
Association of diaphragm thickness and echogenicity with age, sex and BMI in healthy subjects: a cross-sectional study

Jeroen van Doorn (Nijmegen, Netherlands), Juerd Wijnjtes, Christiaan Saris, Coen Ottenheijm, Nens Van Alfen, Jonne Doorduin

**PA1199**  
Ipsilateral and contralateral hemidiaphragm dynamics in symptomatic pleural effusion, the 2nd PLEural Effusion And Symptom Evaluation (PLEASE)-2 Study

Deirdre B. Fitzgerald (Perth, Australia), Sanjeevan Muruganandan, Carolyn J McIntyre, Y C Gary Lee, Bhajan Singh

**PA1200**  
Diaphragm ultrasound in spondyloarthritis: assessment of diaphragmatic motion and respiratory function

Islam Mejri Ep Ajili (Hamamilif Ben Arous, Tunisia), Abir Dghaies, Rim Dhahri, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Imen Gharsallah, Zied Moatemri

**PA1201**  
USEFULNESS OF DIAPHRAGM ECOCINTENSITY FOR THE MANAGEMENT OF PATIENTS WITH AMYOTROPIC LATERAL SCLEROSIS

Santos Ferrer Espinosa (Valencia, Spain), Alba Mulet Arabi, Jesús Sancho Chinesta, Lucía Fdez-Presa, Jaime Signes-Costa Miñana

**PA1202**  
Prediction of extubation failure via diaphragmatic ultrasonography among mechanically ventilated adult patients admitted in intensive care unit of a tertiary care hospital, Karachi, Pakistan: a prospective cohort study

Maria Khan (Karachi, Pakistan), Maryam Lakhdir, Hashir Majid, Iqbal Azam, Ghulraza Adnan, Masood Kadir

**PA1203**  
Usefulness of diaphragmatic ultrasound as a prognosis predictor in a Intermediate Respiratory Care Unit in COVID-19 patients

Tomas Villen (Madrid, Spain), Esther Barbero, Miguel Lorente, José Terán, Pedro Landete

**PA1204**  
The role of Trans-thoracic ultrasonography for rapid detection of Covid-19 pandemic-pneumonia(262 cases)?

Abdul Rasheed Qureshi (Lahore, Pakistan), Huma Bilal

**PA1205**  
Title: Lung ultrasound vs. CT scan for the assessment of post-ICU long COVID

Silvia Bonaiti (Pavia, Italy), Chandra Bortolotto, Giulia Salve, Maria Antonietta Forte, Caterina Sonnati, Martina Moscariello, Giulia Ceschin, Antonella Donatelli, Alice Lionetti, Anita Orlando, Lorenzo Preda, Francesco Mojoli, Silvia Mongodi
Lung Ultrasound (LUS) To Predict The Risk Of Hospitalization In COVID-19 Patients Treated With Anti-SARS-CoV-2 Monoclonal Antibodies
Valentina Pinelli (Sarzana, Italy), Federica Novelli, Puppo Gianfranco, Meazza Massimiliano, Stefania Artioli

Segmental lung anatomy for ultrasound assessment for post-COVID conditions
Rostyslaw Babunov (Kyiv, Ukraine), Anatoliy Serhiienko, Zbigniew Pilecki, Grzegorz Pilecki

Pseudo-anthropomorphic phantom for ultrasound-guided thoracic interventions
Ana Belén Llanos Gonzalez (La Orotava, Spain), Natalia Arteaga-Marrero, Enrique Villa, Marta Elena Gómez Gil, Orlando Acosta Fernández, Juan Bautista Ruiz-Alzola, Javier González-Fernández

Physician-led ultrasound interventions: Rapid diagnosis of lung cancer during the COVID-19 pandemic
Kerri-Marie Heenan (Dungannon, United Kingdom), Laura Davidson, Therese Scullton, Eddie Gibson, Rory Kelly, Kelly Elliot, Graeme O'Hara, Jackie Jamison, Izhao Masih

Ultrasound guided neck node aspiration (FNAC) by pulmonologist in patients with lung cancer
Eman Nasr (Manchester (Greater Manchester), United Kingdom), Kashif Ali Khan, Simon Bailey, David Shelton

Ultrasound-guided needle aspiration biopsy of anterior mediastinal masses in the hands of pulmonologists
Marta Viscuso (Roma, Italy), Guido Levi, Vanina Livi, Daniela Paioli, Luca Richeldi, Rocco Trisolini, Giampietro Marchetti

Ultrasound guided(USG) trucut biopsy of the pleura, lymph nodes and chest wall/subcutaneous lesions performed by respiratory physicians
Qaiser Abdullah (Stoke on trent, United Kingdom), Sana Iftikhar, Ahmed Abimusa, Muhammad Ganaie, Shahul Khan, Mohammed Haris

Frailty in the chronic respiratory patient: association with mortality in obstructive, restrictive and mixed spirometric patterns.
Simone Scarlata (Roma (RM), Italy), Matteo Cesari, Christian Osadnik, Panaioitis Finamore, Raffaele Antonelli Incalzi, Claudio Pedone

Impact of Resistance Training by Electromyostimulation on Energy Cost of Walking and Chronotropic Reserve
Khadija Ayed (Nabeul, Tunisia), Zayneb El Guebsy, Ibtissem Dekhil, Imededdine Ben Dhia, Flavia Swan, Andrew Simpson

The effect of airflow from a hand-held fan on breathlessness recovery from submaximalexercise
Miriam Johnson (Hull (North Humberside), United Kingdom), Sarah O'Beirne, Andrew Brew, Christina Ramsenthaler, Peter Watson, Usamah Adia, Philip Rubin, Michael Fagan, Flavia Swan, Andrew Simpson

Is sleep impaired in post-COVID syndrome vs. healthy controls? Preliminary data.
Inga Jarosch (Schönau am Königssee, Germany), Tessa Schneeberger, Antje Stegemann, Daniela Leitl, Rainer Gloeckl, Virginia Swan, Christopher Schoen, Andreas Rembert Koczulla

Nocturnal hypoventilation and respiratory muscle/cough weakness in COVID-19 ICU survivors
Ana Filipa Gonçalves (Vila Nova de Gaia, Portugal), Rodrigo Correia, Rui Santos, João Carlos Winck

Persistent symptoms up to a year after non-hospitalised Covid-19 and lung function findings in persons with persistent dyspnea.
Marta Alina Kisiel (Uppsala, Sweden), Helena Janols, Tobias Nordquist, Jonas Bergquist, Simone Hagfeldt, Andrei Malinovschi, Magnus Svartengren

Spirometry outcomes in survivors of COVID-19 pneumonia
Muhammad Amin Ibrahim (Puncak Alam, Malaysia), Chee Shee Chai, Bushra Johari, Roqiah Fatmawati, Abdul Kadir, Abdul Razak Mutlaff, Mohammed Fauzi Abdul Rani

Persistent symptoms and spirometric abnormalities after COVID-19: A prospective cohort study
Vijay Hadda (New Delhi (Delhi), India), Tejas Suri, Anant Mohan, Saurabh Mittal, Karan Madan, Surendra Nath, Garima Srivastava, Sunil Kumar, Syam Shaji, Randeep Guleria
Frequency and clinical impact of low muscle mass in patients with asthma referred for pulmonary rehabilitation
Roy Meys (Horn, Netherlands), Felipe Machado, Martijn Spruit, Anouk Stoffels, Hieronymus Van Hees, Bram Van Den Borst, Peter Klijn, Chris Burtin, Fabio Pitta, Frits Franssen

Effect of physical conditioning evaluated in the 6-minute walk in subjects recovered from COVID-19
Laura Cornejo-Cornejo (México City, Mexico), Mariana Salvatierra-Escobar, Samanta Hernandez-Lopez, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Susana Galicia-Amor, Esperanza Trejo-Mellado, Juan Garcia-Hernandez, Iris Lopez-Vasquez, Juan Marquez-Cordero, Jorge Aguilar-Meza, Alejandra Rios-Perea

Transcutaneous PCO2 (TePCO2) in COPD patients during incremental exercise test (IET)
Wendel Dierckx (Kontich, Belgium), Kris Ides, Yinka De Meyer, Eline Lauwers, Erik Franck, Wilfried De Backer

Fatigue And Dyspnea In Young Adults Recovered From COVID-19
Özge Ertan (İstanbul, Turkey), Buğra Baruçu Akinci, Eylel Pınar Kaya, Begüm Karayay, Ahmet Koçyiğit, Hande Şahiner, Zeynep Hosbay

Feasibility of Peak Inspiratory Flow measurement in neuromuscular patients
Shane Hanon (Bruxelles, Belgium), Sylvia Verbanck, Dimitri Stylemans, Marc Meysman, Eef Vanderhelst

The role of NT-proBNP in patients discharged after COVID-19 pneumonia
Olha Shchudro (Dnipro, Ukraine), Lyudmyla Konopkina, Tetyana Pertseva, Larysa Botvinikova, Kesiia Bielosludtseva

Effect of oral and mental task on Time Up and Go in COPD.
Olivier Van Hove (Bruxelles, Belgium), Sarah Noel, Romain Pichon, Rolando Espinoza, Ana Maria Cebolla, Véronique Feipel, Dimitri Leduc, Gael Deboeck, Bruno Bonnechère

The effect of COVID rehabilitation on fatigue and post-exertional symptom exacerbation.
Enya Daynes (Leicester, United Kingdom), Molly M Baldwin, Matthew Annals, David Coope, Nikki Y Gardiner, Sally J Singh

Assessment of nutritional status and body composition in relation to quality of life in COPD patients.
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Zsofia Szarvas, Agnes Feher, Andrea Lehoczki

Benefits of rehabilitation on neuropsychological symptoms in patients acquiring COVID-19 in the workplace: a longitudinal study
Katrin Mueller (Chemnitz, Germany), Katharina Zwingmann, Anna-Lena Schultz, Eva Wilhelm, Rainer-Christian Weber, Ivo Berger, Michael Stegbauer

Impact of pulmonary rehabilitation on peak respiratory pressures and dyspnea of patients with pulmonary arterial hypertension
Lina Marcela Orozco Mejia (Cali, Colombia), Ricardo Mosquera, Eleonora Girón Ruiz, Julián Andrés Rivera Motta

TP-4 in thematic poster Session 159 13:00 - 14:00
area

Thematic poster: New techniques and improvements in lung function assessment

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

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

Chairs : Raffaele Dellaca (Milano (MI), Italy), Camille Rolland-Debord (clermont-ferrand, France)

Validating RespMech: an automated, free and open-source platform for respiratory mechanics analysis at rest and in exercise
Annie Liu (Richmond Hill, Canada), Yannick Molgat-Seon, Nathaniel Y. W. Yuen, Paolo B. Dominelli, Matthew D. James, Denis E. O'Donnell, Nicolle J. Domnik, Emil Schwarz Walsted

An app-based spirometer for home use can detect exercise-induced bronchoconstriction in athletes
Tonje Reier-Nilsen (Jar, Norway), Julie Stang, Hanne Flatsetøy, Martine Isachsen, Bjørn Nordlund

Digital lung sound characteristics related to airflow turbulence intensity: a methodological proof-of-concept.
Eline Lauwers (Wilrijk, Belgium), Toon Stas, Hosein Sadafi, Rita Joao, Ian Mclane, Wendel Dierckx, Kim Van Hoorenbeeck, Jan Steckel, Wilfried De Backer, Stijn Verhulst, Kris Ides

Pulmonary acinar biomechanics imaged with synchrotron phase contrast microtomography in live rats
Sam Bayat (Grenoble, France), Jose-Luis Cercos, Luca Fardin, Gaetano Perchiazzi, Alberto Bravin
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<th>Abstract Number</th>
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<td>PA1236</td>
<td>Dependence of capnogram shape factors on age and anthropometric parameters in spontaneously breathing normal subject</td>
<td>József Tolnai (Szeged, Hungary), Ferenc Peták, Katalin Kapus, Gergely H. Fodor, Ferenc Rárosi, Zoltán Novák</td>
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<td>PA1237</td>
<td>Lung Ultrasound as a tool for monitoring the interstitial changes in recently hospitalised patients with COVID-19 pneumonia - the COVIDLUS study</td>
<td>Naomi Earl (Tunbridge Wells, United Kingdom), Austin Begbey, Miriam Davey, Emma Ince, Sarah Greenslade, Naveen Sharma, Nicklas Wakeham, Karina Cox, Tuck-Kay Loke</td>
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<td>PA1238</td>
<td>Comparison of current predicted spirometric values examined in a Bolivian population and proposal of local reference equations</td>
<td>Alfredo Ajata (Santa Cruz, Bolivia), Giuseppe Liistro</td>
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<td>PA1239</td>
<td>Pulmonary function test in obese patients</td>
<td>Yael González (Buenos Aires, Argentina), Alejandro Salvado, Belén Ginetti, Julia Franzoy, Pablo Oyhamburu, Josefina Pascua, Glenda Ernst, Fernando Di Tullio</td>
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<td>PA1240</td>
<td>Cardiorespiratory responses to head down tilt</td>
<td>ABDULAZIZ ALSHARIFI (London, United Kingdom), Akbar Irampaye, Niamh Carter, Joerg Steier, Gerrard Rafferty</td>
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<td>PA1241</td>
<td>Comparison of mainstream and sidestream capnography in spontaneously breathing adults</td>
<td>Ibolya Tóth (Hódmezővásárhely, Hungary), Ferenc Rárosi, József Tolnai, Almos Schranc, Zoltán Novák, Ferenc Peták, Gergely H. Fodor</td>
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<td>PA1242</td>
<td>Validity of a novel respiratory health meter for analysis of maximal respiratory pressures</td>
<td>Herkkö Ryynänen (Helsinki, Finland), Ilpo Kuronen, Essi Ahokas, Maarat Valtonen, Johanna K. Ihalainen, Anssi Sovijärvi, Juhani Multanen</td>
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<td>PA1243</td>
<td>Pulmonary Hypertension and measurement of exercise capacity remotely: the PERSPIRE study</td>
<td>Carol Keen (Sheffield (South Yorkshire), United Kingdom), Molly Hashimi-Greenwood, Karen Sage, David Kiely</td>
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<td>PA1244</td>
<td>Can Forced Expiratory Time be used as a surrogate tool in quantifying the lung hyperinflation in COPD?</td>
<td>Sana SELLAMI (sfax, Tunisia), Rim Kammoun, Fatma Elleuch, Leila Triki, Rania Bouchech, Hela Zouari, Kaouthar Masmoudi</td>
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<td>PA1245</td>
<td>Physiologist- and SLT-led CPET-CLE: a one stop shop for complex breathlessness</td>
<td>Scott Hawkes (Woking (Surrey), United Kingdom), Joanne Clayton, Rob Peat, Thomas Simon FitzMaurice, Richard Steven, Rob Cooper</td>
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<td>PA1246</td>
<td>Spirometric lung function as a predictor of peak VO2 in adults with congenital heart disease</td>
<td>Scott Hawkes (Woking (Surrey), United Kingdom), Thomas Simon FitzMaurice, Yuen Liao, Angella Bryan, Reza Ashrafi</td>
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<td>PA1247</td>
<td>Late Breaking Abstract - Lung volumes differentiate the predominance of emphysema versus airway disease phenotype in early COPD</td>
<td>Mehrdad Arjomandi (San Francisco, United States), Siyang Zeng, Russell Bowler, Gang Luo, David Lynch</td>
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**TP-5 in thematic poster area**

**Session 160**

**13:00 - 14:00**

**Thematic poster: Non-COVID-19: mechanical ventilation and beyond**

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

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

**Chairs:** Ignacio Martin-Loceches (Dublin, Ireland), Nikoletta Rovina (Athens, Greece)

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<td>PA1248</td>
<td>Corticosteroid for acute exacerbations of COPD in ICU. A French Cohort: OUTCOMEREA database.</td>
<td>Jean-Louis Pépin (Grenoble, France), Louis-Marie Galerneau, Sébastien Bailly, Nicolas Terzi, Stéphane Ruckly, Maité Garrouste-Orgeas, Yves Cohen, Vivien Hong Tuan Ha, Marc Gaimnier, Shidasp Siam, Claire Dupuis, Michael Darmon, Elie Azoulay, Jean-Marie Forel, Florian Sigaud, Christophe Adrie, Dany Goldgran-Toledano, Fabrice Bruneel, Etienne De Montmollin, Laurent Argaud, Jean Reignier, Jean-François Timss</td>
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<td>PA1249</td>
<td>Management of Acute Exacerbations of COPD in the Intensive Care Unit: OUTCOMEREA Database 1997-2018</td>
<td>Jean-Louis Pépin (Grenoble, France), Louis-Marie Galerneau, Sébastien Bailly, Nicolas Terzi, Stéphane Ruckly, Maité Garrouste-Orgeas, Yves Cohen, Vivien Hong Tuan Ha, Marc Gaimnier, Shidasp Siam, Claire Dupuis, Michael Darmon, Elie Azoulay, Jean-Marie Forel, Florian Sigaud, Christophe Adrie, Dany Goldgran-Toledano, Fabrice Bruneel, Etienne De Montmollin, Laurent Argaud, Jean Reignier, Jean-François Timss</td>
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<td>PA1250</td>
<td>Evaluation of aerosol drug delivery in a simulated adult asthma patient</td>
<td>Elena Fernández Fernández (Galway, Ireland), Marc Mac Giolla Eain, Mary Joyce, Ronan Macloughlin</td>
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<td>PA1251</td>
<td>The Prognostic significance of MELD-XI in Patients Admitted to the ICU for Respiratory Failure</td>
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<td>Fatma Çiftci (Ankara, Turkey), Yağmur Gizem Kılıç, Aslıhan Gürtün Kaya, Miraç Öz, Serhat Erol, Aydin Çiledağ, Akın Kaya</td>
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<tr>
<th>PA1252</th>
<th>Parasternal EMG assessment in patients with severe Guillain-Barré Syndrome weaning from mechanical ventilation</th>
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<td></td>
<td>Michael Cheng (Broadway (NSW), Australia), Anne Rossell, Amanda Piper, Patrick Murphy, Joerg Steier</td>
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<tr>
<th>PA1253</th>
<th>Machine learning (ML) classifier models in ARDS to identify patients with a low percentage of potentially recruitable lung</th>
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<td>Francesca Pennati (Milano (MI), Italy), Silvia Coppola, Andrea Aliverti, Davide Chiumello</td>
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<tr>
<th>PA1254</th>
<th>Outcomes of patients with initial acute respiratory failure on veno-venous extracorporeal membrane oxygenation (ECMO) requiring additional circulatory support by VVA-ECMO</th>
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<tr>
<th>PA1255</th>
<th>Impact of early ECMO support on survival of patients with Hantavirus cardiopulmonary syndrome in Chile.</th>
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<td></td>
<td>Ricardo Fritz (Santiago, Chile), Francisco Arancibia Hernandez, Claudia Sepúlveda, Jorge Gavilán, Christian Espinoza, Edgardo Ossandon, Marcelo Concha, Sebastian Iurra</td>
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<tr>
<th>PA1256</th>
<th>Safety of a prone implementation quality based initiative in a safety net hospital</th>
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<td>Keely Johnson (Astoria, United States), Reichihiro Obata, Demetrios Papademetriou, Mohamed Darwish, Alfredo Astua</td>
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<tr>
<th>PA1257</th>
<th>Predictive mortality factors of Diffuse Alveolar Hemorrhage: a retrospective study in Tunisia</th>
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<td>amina abdelkhir (ben arous, Tunisia), Yosr Ayedi, Chahida Harizi, Afef Skhiri, Monia Attia, Radhouane Fakhfakh</td>
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<th>PA1258</th>
<th>Higher Crystalloids Volumes Predict Adverse Outcomes in Emergency Department Patients with Blunt Thoracic Trauma</th>
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<td></td>
<td>Jacopo Davide Giamello (Busca, Italy), Gianpiero Martini, Paola Crida, Ylenia Arese, Luca Bertolaccini, Sara Abram, Elisa Basile, Emanuele Bernardi, Fabio Morra, Fabrizio Corsini, Francesco Tosello, Gabriele Sobrero, Giovanna Greco, Letizia Barutta, Marco Bironzo, Giuseppe Lauria</td>
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<tr>
<th>PA1259</th>
<th>Spontaneous pneumothorax and factors associated with its development in a cohort of COVID-19 patients in Latin America</th>
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<td>Luis Dulcey (Bucaramanga, Colombia), Raimondo Caltagirone, Juan Theran, Diana Villamizar, Melissa Aguas, Hector Moreno, Jonathan Pineda, Rafael Parales</td>
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<th>PA1260</th>
<th>STUMBL score for emergency department safe discharge of patients with minor blunt thoracic trauma</th>
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<td>Jacopo Davide Giamello (Busca, Italy), Gianpiero Martini, Davide Prato, Marco Santoro, Ylenia Arese, Luca Bertolaccini, Remo Melchior, Ceri Elisabeth Battle, Timothy Driscoll, Alessia Bono, Alessia Poggi, Alice Bruno, Andrea Falcetta, Andrea Sciolli, Chiara Fulcheri, Daniela Caruso, Giuseppe Lauria</td>
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<tr>
<th>PA1261</th>
<th>Responder status and long term outcomes of critically ill patients with ARDS receiving high dose steroids as rescue therapy in a specialist acute respiratory failure centre</th>
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<tr>
<th>PA1262</th>
<th>Impact of limbs pneumatic compression during cardiopulmonary resuscitation (CPR) on the survival of cardiac arrest patients</th>
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<td>BoXue Han (Beijing, China), Jian Zhang, Ying Wang, Yanyang Zhao, Jianguo Zhao, Donghua Shen, Wei Wang, Zhitao Jin, Beifeng Zhang, Yongfei Liu, Jie Bai, Aier Wang, Guanghan Wu</td>
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<th>PA1263</th>
<th>Evaluation of pleural procedural confidence in intensive care trainees (EPIC)</th>
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<td>Lillian Fitzpatrick (Tamworth, Australia), Claire Pickering, Kathryn Kerr, Vineeth George</td>
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<th>PA1264</th>
<th>Kinetics of serum chemerin in critically ill patients with sepsis: a prospective study</th>
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<td>Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Natalia Vallianou, Dimitrios Tsilingiris, Evangelia Chrysanthopoulou, George Skyllas, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga</td>
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<th>PA1265</th>
<th>Ventilator alarms that received no intervention: an analysis of ventilator alarm relationship in intensive care unit</th>
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<td>Chang Yujen (Taichung City, Taiwan), Chi Shuhua, Hsiao Yaochuan</td>
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<tr>
<th>PA1266</th>
<th>Technology innovation device &quot;DYNAtraq&quot; for the alignment and fixation of the tracheostomy cannula: Preliminary analysis of its efficacy and safety.</th>
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<tr>
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<td>Mauricio A. Orozco-Levi (Barcelona, Spain), Diana Tiga-Loza, Mabel Reyes-Pulido, Carlos Reyes, Camilo Pizarro, Diana Rey, Angela Espitia, Angie Pabón, Magia Pérez-Silva, Sandra Sanabria, Neikel Quintero, Alba Ramírez-Sarmiento</td>
</tr>
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Pneumothorax - a life-threatening complication in patients with cystic fibrosis
Oxana Munteanu (Chișinău (Chișinău), Republic of Moldova), Ludmila Balanțchi, Eva Gudumac, Rodica Selevestru, Doina Cioplă, Ana Goloborodico, Cristina Tomacinsh, Svetlana Sciuca

TP-6 in thematic poster area
Session 161 13:00 - 14:00

Thematic poster: New insights and biomarkers in COPD
Disease(s): Airway diseases
Method(s): Cell and molecular biology Public health General respiratory patient care Epidemiology Physiology Transplantation
Chairs: Arnaud Mailleux (Paris, France), Anita Somborac Baćura (Zagreb, Croatia)

PA1268 DNA methylation signature and epigenetic age of severe COPD
Sandra Casas Recasens (Barcelona, Spain), Nuria Mendoza, Nuria Olvera, Tamara Garcia, Oriol Sibila, Alvar Agustí, Rosa Faner

PA1269 Spatial transcriptomics (ST) of cigarette smoke (CS)-induced experimental COPD
Alena Faiz (Ultimo (NSW), Australia), Hao Chen, Izabela Galvaõ, Chantal Donovan, Richard Kim, David Ortega, Sobia Idrees, Jonas Schulte-Schrepping, Anna Schaar, Joachim Schultze, Philip Hansbro

PA1270 Sensitive and specific measurement of alpha-1 antitrypsin elastase inhibitory activity
Alfred Weber (Vienna, Austria), Andrea Engelmaier

PA1271 Unique differentially expressed genes in bronchial brushes in severe COPD
Jos van Nijnatten (Groningen, Netherlands), Alena Faiz, Wim Timens, Victor Guryev, Dirk-Jan Slebos, Karin Klooster, Jorine Hartman, Tessa Kole, David F. Choy, Michele Grimbaldeston, Carrie M. Rosenberger, Irene Heijink, Simon D. Pouwels, Huib Kerstjens, Corry-Anke Brandsma, Maarten Van Den Berge

PA1272 Hypomethylation of PRSS23 (cg23771366) is associated with COPD secondary to biomass exposure
Gloria Pérez Rubio (México, Mexico), Ramcés Falfán Valencia, Omar Bravo Gutiérrez, Alejandra Ramírez Venegas, Rafael Hernández Zenteno

PA1273 A lung tissue gene expression profile of severe early onset COPD
Niek Bekker (Reeuwijk, Netherlands), Jos Van Nijnatten, Peter Horvatovich, Justina Wolters, Victor Guryev, Wierd Kooistra, Marjan Reinders-Luinge, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

PA1274 Blood neutrophil adhesion properties and plasma levels of acute-phase proteins in subjects with PiMM and PiZZ alpha-1-antitrypsin
Urszula Lechowicz (Warsaw, Poland), Aneta Zdral, Adriana Roży, Sabina Janciauskiene, Joanna Chorostowska-Wynimko

PA1275 Alpha-1 Antitrypsin Deficiency Laboratory Testing-External Quality Assessment Program AATD LABNet 2019-2021
Joanna Chorostowska-Wynimko (Warsaw, Poland), Irene Belmonte, Malika Balduyck, Tomás P. Carroll, Timm Greulich, Noel G. McElvaney, Marc Miravitlles, Francisco Rodriguez-Frias, Marie-Françoise Odou, Stefania Ottaviani, Adriana Rozy, Susana Seixas, Gerard Oerrios Torras, Martina Veith, Farid Zerimech, Angelo G. Corsico, Ilaria Ferrarotti

PA1276 Influence of smoking on bronchial epithelial cell composition by cellular deconvolution and IHC
Senani Rathnayake (Leppington, Australia), Benedikt Ditz, Jos Van Nijnatten, Corry-Anke Brandsma, Wim Timens, Pieter Hiemstra, Nick Ten Hacken, Brian Oliver, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz
The effect of COVID-19 pandemics on the comprehensive laboratory diagnostic of alpha-1 antitrypsin deficiency in Europe - report from the AATD LABNet

Joanna Chorostowska-Wynimko (Warsaw, Poland), Malika Balduyck, Timm Greulich, Noel G. Mclveney, Marc Miravitlles, Francisco Rodriguez-Frias, Marie-Françoise Odou, Stefania Ottaviani, David Parr, Adriana Rozy, Susana Seixas, Gerard Orrioles Torras, Martina Veith, Farid Zerimech, Angelo G. Corsico, Ilaria Ilaria Ferrarotti

COPD: can genetic background inform about disease heterogeneity?

Rui Marçalo (Aveiro, Portugal), Rui Filipe Santos Marçalo, Guilherme Rodrigues, Thaís Córdova, Vasco Neves, Sonya Neto, Miguel Pinheiro, Manuel A. S. Santos, Paula Simão, Aurora Mendes, Lília Andrade, Alda Marques, Gabriela R. Moura

Late Breaking Abstract - Epigenetic clock analysis shows accelerated ageing in severe early onset COPD

Maaike de Vries (Groningen, Netherlands), Marshellon E. Martinus, Niek J. Bekker, Wierd Kooistra, Rolf H.J. Vedder, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

Genetic effect of SNPs in TMTC2 and COPD secondary to tobacco smoking

Enrique Ambrocio-Ortiz (México, Mexico), Ramcés Falfán-Valencia, Gloria Pérez-Rubio, Alejandra Ramirez-Venegas, Rafael De Jesús Hernández-Zenteno, Julia Pérez Ramos

Genetic variants in SCGB1A1 affect sputum CC16 levels in wood smoke COPD and are associated with COPD susceptibility in smokers.

Armando Zazueta-Marquez (, Mexico), Ramcés Falfán-Valencia, Gloria Pérez-Rubio, Rafael De Jesús Hernández-Zenteno, Alejandro Ortega-Martínez, Alejandra Ramirez-Venegas

One carbon metabolic pathway and smoking mediated altered global DNA methylation in Chronic Obstructive Pulmonary Disease: A vegetarian community-based study from rural India

Suniti Yadav (New Delhi, India), Vijay Hadda, Kallur Nava Saraswathy

Late Breaking Abstract - An in depth study of morphological small airway changes in explant lungs with end stage COPD.


Late Breaking Abstract - Water sorption properties and nanostructures of airway mucus in patients with COPD and cystic fibrosis

Lara Marisa Poeschke (Düsseldorf, Germany), Vladislav Genevskiy, Susyn Kelly, Sebastian Bjorklund, Maik Schröder, Georg Nillius, Vitaly Kocherbitov, Stanislav Tatkov

Protein Blend Suppress Inflammatory Response from Bronchial Epithelial Cells Induced by SARS-Cov-2

José Roberto Mateus da Silva (São José dos Campos, Brazil), Carlos R. Oliveira, Maysa A. R. Brandao-Rangel, Anamie Silva-Reis, Fabiana R. Da S. Olimpio, Lucas Dos S. Zamaroli, Rodolfo P. Vieira

Differentially expressed FOXO1NFE2L2 and NFKB1 mRNAs are associated with differentially regulated corona- and influenza viral receptor genes and Toll-like receptor pathway genes in human bronchial epithelial cells under hyperbaric oxygen exposure

Yu-Ming Li (TAIPEI, Taiwan), Cheng-Chin Wang, Yun Chang, Chieh-Min Chen, Yi-Hui Chen

Investigating neutrophil function during SARS-CoV2 infection in human airway epithelial cells from elderly and young individuals


RNA sequencing unravels unique host transcriptional responses to infection with SARS-CoV-2 in well differentiated primary human bronchial epithelial cells compared to other coronaviruses

Ying Wang (Leiden, Netherlands), Melissa Thaler, Clarisse Salgado-Benvindo , Nathan Ly, Anouk A. Leis , Dennis K. Ninaber, Martijn J. Van Hemert, Pieter S. Hiemstra, Anne M. Van Der Does, Alen Faiz

Thematic poster: Contribution of host-microbe interactions to respiratory disease

Disease(s) : Airway diseases, Respiratory critical care

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

Chairs : Gwenda Vasse (Groningen, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

Protein Blend Suppress Inflammatory Response from Bronchial Epithelial Cells Induced by SARS-Cov-2

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PA1292 Changes in the hematological cells ratios are associated with death in COVID-19 patients
Ilse Adriana Gutiérrez Pérez (mexico, Mexico), Gloria Pérez-Rubio, Ivette Buendía-Roldán, Rafael Hernández-Zenteno, Leslie Chavez-Galán, Ramcès Falfán-Valencia, Iris Paola Guzmán-Guzmán

PA1293 Conditions affecting bronchial epithelial cells responses to poly (I:C)
Fatemeh Moheimani (Middlesbrough, United Kingdom), Nafeesa Shahdab, Chris Ward, Stephen Cummings

PA1294 A model of epithelial and neutrophil responses to cystic fibrosis microbes
Daniel Lauricica (Nedlands, Australia), Craig Schofield, Samantha Mclean, Camilla Margaroli, Patricia Agudelo-Romero, Stephen Stick, Rabindra Tirouvanziam, Thomas Riley, Anthony Kicic, Luke Garratt

PA1295 Method development for flow-cytometric analysis of primary human airway epithelia infected with non-typeable Haemophilus influenzae
Katie L. Horton (Southampton, United Kingdom), Jennifer L Cane, Claire L Jackson, Raymond N Allan, Jane S Lucas, Timothy S C Hinks

PA1296 Phosphoinositide 3-kinase and airway infections in severe asthmatics
Anurag Bhalla (Toronto (ON), Canada), Katherine Radford, Kayla Zhang, Zachary Brautigam, Chynna Huang, Melanie Kjarsgaard, Nicola Lavigne, Sarah Svenningsen, Guillaume Pare, Manali Mukherjee, Parameswaran Nair

PA1297 Staphylococcal enterotoxin B has sustained effects on the respiratory immune milieu and significantly modulates allergic airway inflammation in a mouse model
Sabine Stegemann-Koniszewski (Magdeburg, Germany), Ilka Jorde, Christina Hildebrand, Irina Han, Eva Lücke, Jens Schreiber

PA1298 In vitro approaches to identify an antiviral role for BPIFB1 in the airway epithelium
Abdulaziz Alkhoshaiban (Sheffield, United Kingdom), Miraj Kobad Chowdhury, Priyanka Anujan, Lynne Bingle, Colin Bingle

PA1299 Increased degradation of heparan sulfate is implicated in COPD exacerbations of different etiology
Eleni Papakonstantinou (Basel, Switzerland), Maria-Elpida Christopoulou, Michael Tam, Daina Stolz

PA1300 The gut microbiome in COPD: a case-control study
Anders Ørskov Rotevatn (Nesttun, Norway), Tomas Mikal Lind Eagan, Solveig Tangedal, Gunnar Reksten Husebo, Rune Nielsen

PA1301 Circulating levels of hyaluronic acid synthase-2 (HAS-2) are associated with COPD exacerbations of different etiology
Eleni Papakonstantinou (Basel, Switzerland), Maria-Elpida Christopoulou, Michael Tam, Daina Stolz

PA1302 Inflammatory signature of a murine model of chronic obstructive pulmonary disease (COPD) exacerbations
Elena Tantillo (Parma, Italy), Paola Caruso, David Colecchia, Gloria Pittelli, Silvia Pontis, Maurizio Civelli, Marcello Trevisani

PA1303 Late Breaking Abstract - COVID 19 severity is associated with the presence of lung derived cfDNA in plasma
Ariel Rokach (Jerusalem, Israel), Roni Ben Ami, Eden Cohen, Nama Bogot, Danit Kochan, George Kalak, Amir Jarjoui, Chen Chen Shuali, Hava Azulai, Hezi Barhoum, Moshe M Greenberg, David Velleman, Ramzi Kurd, Eli Ben Chetrit, Ahmad Quteineh, Yuval Dor

PA1304 Late Breaking Abstract - Novel fully primary human airway epithelium-alveolar macrophages in vitro co-cultures models to study host pathogen interactions
Samuel Constant (Plan-les-Ouates, Switzerland), Bernadett Boda, Carole Bertinetti, Ophélie Verbeke, Xiao-Yann Huang, Song Huang

PA1305 Late Breaking Abstract - Single cell mRNA sequencing of nasal swabs indicate an impaired ciliated cell function in COVID-19 convalescents with persisting dyspnea
Saskia Trump (Berlin, Germany), Jennifer Loske, Maria Theresa Völker, Olivia Debnath, Sören Lukassen, Naveed Ishaque, Marey Messingschläger, Anke Seegebarth, Fridolin Steinbeis, Florian Kurth, Thomas Zoller, Martin Witzenrath, Irina Lehmann, Sven Laudi, Roland Eils

PA1306 Late Breaking Abstract - Vaccination after recovery from COVID-19 affects nasal antibody levels
Felicity Liew (London, United Kingdom), Shubha Talwar, Claudia Efstathiou, Thushan De Silva, Susannah Dunachie, Antonia Ho, Sara Fontanella, Lance Turtle, Ryan S Thwaites, Peter J M Openshaw

PA1307 Late Breaking Abstract - Increased susceptibility to Pseudomonas aeruginosa pneumonia in overventilated lungs is caused by airspace acidification
Matthias Felten (Berlin, Germany), Chiunjiang Tan, Sebastian Ferencik, Jingjing Li, EleftheriaLetsiu, Jasmin Lienau, Holger C Müller-Redetzky, Theresa C Firsching, Achim D Gruber, Gopinath Krishnamoorthy, Zhang Qi, Wolfgang Küber, Martin Witzenrath
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<th>13:00 - 14:00</th>
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<td><strong>TP-8 in thematic poster area</strong></td>
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<tr>
<td><strong>Thematic poster: Diagnostic modalities for sleep disordered breathing</strong></td>
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<td><strong>Disease(s):</strong></td>
<td>Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases</td>
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<td><strong>Method(s):</strong></td>
<td>Physiology, Public health, General respiratory patient care, Epidemiology</td>
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<td><strong>Chairs:</strong></td>
<td>Athanasia Pataka (Thessaloniki, Greece), Matteo Bradicich (Zollikerberg, Switzerland)</td>
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### PA1308
**Diagnosis utility of the modified Berlin Questionnaire vs Berlin Questionnaire for the diagnosis of obstructive sleep apnoea in adults with a history of COVID-19 infection**
Yeliz Çelik (İstanbul, Turkey), Yüksel Peker

### PA1309
**Gender gap of NOSAS score in patients with suspected OSA.**
Jone Solorzano Eguridine (bilbao, Spain), Imanol González Muñoz, Edurene Echevarria Guerrero, Mª Luz Zaldibar Barinaga, Yolanda Rey Fernandez, Beatriz Gonzalez Quero, Laura Cancelo Diaz, Sonia Castro Quintas, Amaia Urrutia Gajate, Valentin Cabriada Nuño

### PA1310
**Validation of NoSAS score for screening obstructive sleep disorders (SDB) in our patients with suspected OSA.**
Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Amaia Urrutia Gajate, Jone Solorzano Eguridine, Elena Garay Llorente, Beatriz Gonzalez Quero, Joseba Andia Iturrate, Valentin Cabriada Nuño

### PA1311
**Comparison of two questionnaires for screening sleep apnea syndrome in the elderly.**
syrine Abbeldalitfat (Marsa, Tunisia), Ferdaous Yangui, Chaima Baya, Hela Cherif, Mrassi Hana, Martiem Triki, Mohamed Ridha Charfi

### PA1312
**Assessment of Obstructive sleep apnea among Iraqi people in 2019 by using (STOP – BANG) model**
Abhishek Goyal (Bhopal, India), Abhijit Pakhare, Ankur Joshi

### PA1313
**Prevalence and determinants of sleep apnea in the French general population**
Pauline BALAGNY (Paris, France), Emmanuel Wiernik, Adeline Renuy, Johane Matte, Justine Frija-Masson, Philippe Gabriel Steg, Céline Ribet, Marcel Goldberg, Emmanuelle Vidal-Petiot, Marie Zins, Marie-Pia D'Ortho

### PA1314
**Machine learning and geometric morphometrics to predict obstructive sleep apnoea from 3D craniofacial scans**
Raoua Ben Messaoud (Grenoble, France), Fabrice Monna, Nicolas Navarro, Sébastien Baillieul, Lionel Sanchez, Corinne Loidice, Renaud Tamisier, Marie Joyeux Faure, Jean Louis Pepin

### PA1315
**Gender equity: AASM scoring criteria for OSA diagnosis**
Kate Cole (San Diego, United States), R. Benjamin Dexter, Atul Malhotra, Peter A. Cistulli, Alison Wimms, Will Mcconnell, Kimberly L. Sterling, Jean Louis Pepin

### PA1316
**Type III sleep test at home versus Type I polysomnography in the laboratory before bariatric surgery**
Luc Groshaeny (Saint Croix en Plaine, France), Emmanuel Gomez, Mathilde Oranger, Pierre Thore, Julien Soler, Anne Guillamot, Simon Valentin, Delphine Sayen, Didier Quillot, Nicolas Reibel, François Chabot, Ari Chauouat

### PA1317
**Peripheral arterial tonometry versus polysomnography in suspected obstructive sleep apnea**
Jonathan Röcken (Basel, Switzerland), Desiree M. Schumann, Matthias Herrmann, Léo Franchetti, Leticia Grize, Werner Strobel, Michael Tamn, Daiana Stolz

### PA1318
**Comparative study between Nox Body Sleep algorithm (NBS) and the manual scoring (MS) of respiratory polygraphs (RP)**
Imanol Gonzalez Muñoz (Barakaldo, Spain), Jone Solorzano Eguridine, Laura Cortezon Garces, Nerea Ortiz Laza, Cristina Valverde Novillo, Sonia Castro Quintas, Amaia Urrutia Gajate, Beatriz Gonzalez Quero, Valentin Cabriada Nuño

### PA1319
**Comparison of AI-driven scoring with manual scoring of lab-based polysomnography data**
Christian Gysin (St. Gallen, Switzerland), Florent Baty, Franziska Schmidli, Kathrin Schauer, Otto Schoch, Martin Brutsche

### PA1320
**In what position do people sleep in the sleep laboratory?**
Christiaan Yu (Clayton, Australia), Renel Cuesta, Eldho Paul, Teanu Roebuck, Belinda Miller

### PA1321
**Positional Obstructive Sleep Apnea: A Mild and Male Predominant Phenotype**
Ömer Selim Unat (Izmir, Turkey), Mehmet Sezai Taisbakcn, Ozen Kacmaz Basoglu
PA1324 Geographical and Seasonal Impact on snoring prevalence - A study based on Internet search frequencies
Inês Silva e Costa De Castro Barreto (Lisboa, Portugal), Cátia Pereira, Mónica Pereira, Cristina Bárbara, Paula Pinto, Richard Staats

PA1325 Validation of ambulatory blood pressure monitoring and pulse transit time
Katiuska Herminia Liendo Martinez (madrid, Spain), Daniel López-Padilla, Javier De Miguel Diez, Felipe Villar Alvarez, Teresa Gomez García

PA1326 Late Breaking Abstract - Trajectories of CPAP termination and resumption: a French nationwide database analysis
Jean-Louis Pépin (Grenoble, France), Renaud Benjafield, Pierre Rinder, Florent Lavergne, Anne Josseran, Paul Sinel-Boucher, Peter Cistulli, Atul Malhotra, Pierre Hornus, Sebastien Bailly

PA1327 Late Breaking Abstract - Tobacco smoke exposure and sleep duration among U.S. adolescents
Ashley L. Merianos (Cincinnati, United States), Timothy Stone, E. Melinda Mahabee-Gittens, Roman A. Jandarov, Kelvin Choi

TP-9 in thematic poster Session 164 13:00 - 14:00 area
Thematic poster: Asthma treatment: real-world studies and other diseases
Disease(s): Airway diseases
Method(s): General respiratory patient care Epidemiology Public health Pulmonary function testing Physiology
Chairs: Nicolas Roche (Paris, France), Ellen Tufvesson (Lund, Sweden)

PA1328 Subcutaneous specific immunotherapy (SCIT) added to omalizumab in severe allergic asthma patients - efficacy and safety M.Christopoulou, J.Moisidis, L.Panteli and A.Christopoulos Asthma Clinics Private outpatient clinic Patras/Greece
Antonios Christopoulos (Patras, Greece), Mariaelpida Christopoulou, Lilia Panteli, Ioannis Moisidis, Ioannis Christopoulos

PA1329 Improvement of health-related quality of life after 3 months of treatment with extrafine single-inhaler triple therapy in asthma: a real-world view from Germany
Christian Gessner (Leipzig, Germany), Berktan Akyildiz, Maurice-Dominique Martini, Torben Meyer-Duderstaedt, Rembert Koczulla

PA1330 Effectiveness of initiating biologics in severe asthma patients with high steroid exposure

PA1331 Complex therapy in patients with bronchial asthma on the background of gastroesophageal reflux disease (GERD)
Yevgeniya Dytatkovska (Dniepropetrovsk, Ukraine), Jeliena Koreskaita, Natalia Nedogibchenko, Anastasiaa Yevtushenko

PA1332 Adolescence to early adulthood transition in French severe asthmatic children treated with omalizumab Camille Taillé (Paris, France), Marc Humbert, Arnaud Boudin, Ralph Niara, Céline Thonnelier, Audrey Lajoinie, Alexandre Rigault, Mathieu Molimard, Antoine Deschildre

PA1333 Specialist care among adults with asthma and frequent use of oral corticosteroids – a nationwide Danish register-study
Inge Raadal Skov (Odense, Denmark), Hanne Madsen, Jacob Harbo Andersen, Anton Pottegård, Jesper Rømhild Davidsen

PA1334 Outcomes from treating rhinitis in patients with refractory breathlessness
Rachel Daly (Manchester , United Kingdom), Siobhan Ludlow, Thomas Pantin, Stephen Fowler

PA1335 Real-life comparative study on the effectiveness of benralizumab, mepolizumab and omalizumab in severe allergic asthma associated with nasal polyps
Angelica TIOTIU (Nancy, France), Paula Mendez-Brea, Iulia Ioan, Rodrigo Romero-Fernandez, Jean Philippe Oster, Thi-Cam-Tu Hoang, Pauline Roux, Diana Carolina Ochoa-Gutierrez, Philippe Bonniaud, Frederic De Blay, Francisco-Javier Gonzalez-Barcala

PA1336 Prevalence of anxiety and depression in patients with severe Asthma who are receiving biologic therapy.
Jane Watson (Epsom, United Kingdom), Chloe Peach, Nicola Price, Jane Evans, Adrian Draper, Sackle Melick

PA1337 Suppressive effect of corticosteroid treatment on urinary levels of androgens and cortisol in mild and severe asthma
Valentyna Yasinska (Rönninge, Sweden), Cristina Gómez, Johan Kolmert, Anna James, Lars I. Åndersson, Barbro Dahlén, Craig E. Wheelock, Sven-Erik Dahlén, Eva Wikström-Jonsson, ( On Behalf Of The U-Biopred Study Group)
Economic impact of oral corticosteroids in severe asthmatics: a simulation study in selected European countries
Arnaud Bourdin (Montpellier Cedex 5, France), Elisabeth H Bel, Barbro Dahlén, Ratko Djukanovic, Enrico Heffler, Piotr Kuna, Renaud Louis, Celeste Porsbjerg, David Ramos-Barbon, Sabina Skrgat, Giacomo Matteo Bruno, Sergio Di Matteo, Chiara Martinotti, Giorgio Lorenzo Colombo, Thomas Paulsson, Barbara Mascialino

Assessing variation in severe asthma care in England: a national benchmarking study
James Rose (Reading, United Kingdom), Seema Gadhia, Marianna Lepetyukh, Ben Williams, Hitasha Rupani, Grainne D’Anconia

Using clusters of asthmatic patients to quantitatively estimate, prior to initiating treatment, the likelihood of β2-agonist response in asthma patients
Edgar Delgado-Eckert (Basel, Switzerland), Cindy Thamrin, Ian Town, D Robin Taylor, Urs Frey

Clinical Characteristics and Disease Burden of Severe Asthma According to Oral Corticosteroid Dependence: Real-World Assessment from the Korean Severe Asthma Registry (KoSAR)
Ji-Hyang Lee (Seoul, Republic of Korea), Hyo-Jung Kim, Chan Sun Park, So Young Park, So-Young Park, Hyun Lee, Sang-Heon Kim, You Sook Cho

Prevalence of asthma-COPD overlap in COPD and severe asthma cohorts
Hyonsoo Joo (Seoul, Republic of Korea), So-Young Park, So Young Park, Seo Young Park, Sang-Heon Kim, You Sook Cho, Kwang Ha Yoo, Ki Suck Jung, Chin Kook Rhee

Adherence to inhalers and asthma control assessed by two validated self-reported questionnaires.
Silviya Novakova (Plovdiv, Bulgaria), Plamena Novakova

Impact of baseline characteristics on clinical remission achievement in severe asthma
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ian Pavord, David Bañas Conejero, Robert G. Price, Alison Pullan, John Oppenheimer, Liam G. Heaney, Hiroyuki Nagase, Emilio Pizzichini, Peter Howarth, Frances Gardner

Innovation in drug development: applying human factors to understand asthmatic patients’ needs.
Marta Lombardini (Parma, Italy), Giulia Marenghi, Francesco Bianchi

Analysis of the tolerance and safety of inhaled antibiotics and hypertonic saline solution in patients with bronchial hyperreactivity
Andrea Carolina Perez Figuera (Madrid, Spain), Rosa Nieto Royo, Raquel Morillo Guerrero, Carlos Almonacid Sánchez, Aurora Solier López, Esther Barbero Herranz, Diego Durán Barata, Beatriz Pintado Cort, Diurbis Velasco Alvarez, Luis Mái Carro

Comorbidities in severe and non-severe asthma: a nationwide population-based observational study
Hannu Kankaanranta (Seinäjoki, Finland), Arja Viinanen, Pinja Ilmarinen, Juha Mehtälä, Tero Ylisaukko-Oja, Juhana J Idänpäät-Hiekkälä, Lauri Lehtimäki

14:00-14:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

8A - live streamed
Session 167
14:15 - 15:45
State of the art session: Respiratory infections
Aims: to review the most relevant topics related to respiratory infection in 2021–2022.
Disease(s): Respiratory infections.
Method(s): Cell and molecular biology Public health Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist, Journalist
Chairs: Eva Polverino (Barcelona, Spain), Holly R. Keir (Dundee (Angus), United Kingdom), Giovanni Sotgiu (Sassari, Italy)

14:15 The lung microbiome and pneumonia: is dysbiosis the new pathway to investigate these infections ?
Leopoldo N. Segal (New York New York, NY, United States) 1355

14:45 The role of new diagnostics in managing mycobacterial infections
Daniela Maria Cirillo (Milano (MI), Italy) 1357

14:30 How new vaccine technology can modify the history of respiratory infections
Tobias Welte (Hannover, Germany) 1356
### 8B - live streamed  
**Session 168  14:15 - 15:45**

**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 2022 which will then be presented by one of the authors.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Physician in Pulmonary Training

**Chairs:** Darren Teichman (Boston, United States), Martin Kolb (Hamilton (ON), Canada), Louise Donnelly (London, United Kingdom)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>14:15</td>
<td>NEJM: Albuterol–Budesonide fixed-dose combination rescue inhaler for asthma</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
</tr>
<tr>
<td>14:30</td>
<td>ERJ: Sotatercept for the treatment of pulmonary arterial hypertension: PULSAR open-label extension</td>
<td>Pilar Escribano- SUBias (Madrid, Spain)</td>
</tr>
<tr>
<td>14:45</td>
<td>NEJM: Trial of a preferential phosphodiesterase 4B inhibitor for idiopathic pulmonary fibrosis</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>15:00</td>
<td>ERJ: COMPERA 2.0: a refined four-stratum risk assessment model for pulmonary arterial hypertension</td>
<td>Marius M. Hoeper (Hannover, Germany)</td>
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</table>

### 8C - live streamed  
**Session 169  14:15 - 15:45**

**Clinical cases: Lungs on fire: Pulmonary vascular diseases?**

**Aims:** To facilitate the presentation of 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  
- Respiratory infections

**Tag(s):** Clinical

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

**Chairs:** Mona Lichtblau (Zürich, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France), Laurent Bertoletti (Saint Etienne Cedex, France)

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

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<th>Time</th>
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<th>Author(s)</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: R. O’Loghlin (Ireland)</td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
</tr>
<tr>
<td>14:37</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: L. Tregidgo (United Kingdom)</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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<tr>
<td>14:59</td>
<td>Case 3 incl. panel discussion and Q&amp;A - Author: N. Boyle (Ireland)</td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
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<tr>
<td>15:21</td>
<td>Case 4 incl. panel discussion and Q&amp;A - Author: S. Cullivan (Ireland)</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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</table>
8G - live streamed  Session 170  14:15 - 15:45

**Symposium: What I learnt from COVID-19 to better manage my current patients**

Onboarding of COVID-19 practices to improve non-COVID-19 care pathways and outcomes

Aims: to discuss lessons learnt from COVID-19 that can be implemented to improve respiratory care or access to care pathways beyond the COVID-19 pandemic.

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

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

**Tag(s):** Clinical

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

**Chairs:** Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Management of severe acute respiratory failure</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
</tr>
<tr>
<td>14:30</td>
<td>How will digital health change care of obstructive lung disease patients after the pandemic?</td>
<td>Niels H. Chavannes (Leiden, Netherlands)</td>
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<tr>
<td>14:45</td>
<td>Rehabilitation accessible to all</td>
<td>Anne Holland (Fitzroy North (VIC), Australia)</td>
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<tr>
<td>15:00</td>
<td>Care of children with chronic respiratory disease</td>
<td>Monika Gappa (Düsseldorf, Germany)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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8H - live streamed  Session 171  14:15 - 15:45

**Symposium: Cell death modalities regulating the onset and progression of chronic lung diseases**

The therapeutic potential of modulating cellular fate

Aims: to explain the relevance of different cell death modalities upon lung tissue damage in the development of various chronic lung diseases, including chronic obstructive pulmonary disease (COPD), interstitial lung disease and COVID-19; to differentiate between different cell death modalities and the underlying molecular mechanisms; to describe the immunological and pathological consequences of different cell death modalities; to explain the role of specific cell death modalities in the pathophysiology of chronic lung diseases; to provide insight into the therapeutic potential of cellular fate regulation in chronic lung diseases.

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

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

**Tag(s):** Translational

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

**Chairs:** Silke Meiners (Sülfeld, Germany), Reinoud Gosens (Groningen, Netherlands)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Introduction to cell death modalities and their role in the progression of chronic lung diseases</td>
<td>Simon D. Pouwels (Zuidhorn, Netherlands)</td>
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<tr>
<td>14:30</td>
<td>The role of mechanical and cellular stress in lung injury and airway remodeling</td>
<td>Jin-Ah Park (Boston, United States)</td>
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<tr>
<td>14:45</td>
<td>Clinical importance of cell death modalities in COPD: from necroptosis to ferroptosis</td>
<td>Ken Bracke (Ghent, Belgium)</td>
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<tr>
<td>15:00</td>
<td>Does NETosis contribute to lung fibrosis in COVID-19?</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
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8N  Session 172  14:15 - 15:30

**Oral presentation: Biomarkers and beyond in lung cancer**
**Disease(s)**: Sleep and breathing disorders, Thoracic oncology

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

**Chairs**: Rudolf M. Huber (Munich, Germany), Joanna Domagała-Kulawik (Warszawa, Poland)

OA1379 **Quantitative proteomics indicates radical removal of non-small cell lung cancer and predicts outcome**
Embla Bodén (Lund, Sweden), Jesper Andreasson, Gabriel Hirdman, Oskar Hallgren, Franziska Olm, Sandra Lindstedt

OA1380 **Prophylactic use of mini tracheostomy in patients with comorbidities undergoing lung resection**
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

OA1381 **Relationship between clinicopathologic characteristics and spread through air spaces in resected lung adenocarcinoma and squamous cell carcinoma cases**
Tugba Nur Tezvergil (Ankara, Turkey), Ulku Yilmaz

OA1383 **Subtype-specific transcription factors are clinically relevant and show distinct therapeutic vulnerabilities in human small cell lung cancer**

OA1384 **IGFBP3 inhibits tumour growth and invasion of H1299 lung cancer cells and leads to improved survival in patients with lung cancer**
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Marie Anna Petersen, Jonas Meyer, Lukas Hofmann, Albrecht Gläser, Sabine Taubenheim, Sebastian Krämers, Johannes Brosschewitz, Maximilian Von Laftert, Hubert Wirtz

OA1385 **Extracellular vesicles derived from lung cancer cells exposed to intermittent hypoxia promote M2 macrophage polarization through miR-20a-5p/PTEN/Akt pathway**
Yuanling Liu (GuangZhou, China), Gang Xu, Congrui Feng, Yuluo Chen, Huake Sun, Wei Ma

OA1386 **On-chip human microvasculature assay to study extravasation dynamics of lung cancer cells**
Soheila Zeinali (Bern, Switzerland), Karin F. Rechberger, Christelle Dubey, Rahim Gashi, Thomas M. Marti, Patrick Dorn, Olivier T. Guenat

OA1387 **Discussion**
All Speakers

**8F**  **Session 173**  **14:15 - 15:30**

**Oral presentation: What is hot in interstitial lung diseases**

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

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

**Chairs**: Wim A Wuyts (Leuven, Belgium), Fernanda Ines Hernandez Gonzalez (Barcelona, Spain)

OA1388 **Assessment of a relationship between prognostic biomarkers and treatment response in ISABELA1 &2 IPF cohorts**
Matthew Randall (Basel, Switzerland), Simon De Bernard, Ineke Seghers, Nadia Verbruggen, Sharlene Lim, Bernt Van Den Blink, Claus Andersen, Philippe Pujuguet, Niyati Prasad, Paul Ford, Yasmina Bauer

OA1389 **Nocturnal hypoxaemia is associated with mortality in patients with fibrotic interstitial lung disease**
Katherine Myall (London, United Kingdom), Jennifer Martinovic, Zhe Wu, Jodie Lam, Diana Roque, Victor Jardim, David J Jackson, Eui-Sik Suh, Toby Maher, Philip Molyneux, Brian Kent, Alex West

OA1390 **Outcomes of patients managed in specialised compared to non-specialised ILD centres**
Michael Kreuter (Heidelberg, Germany), Pavo Marijic, Larissa Schwarzkopf, Werner Maier, Franziska Trudzinski, Lars Schwettmann

OA1391 **Predicting treatment response in patients with interstitial lung disease using electronic nose technology**
Iris G. van der Sar (Rotterdam, Netherlands), Catharina C. Moor, Brigitte P.M. Vellekoop, Marlies S. Wijsenbeek

OA1392 **Family history of ILD predicts pulmonary function decline in IPF patients**
Tinne Goos (Leuven, Belgium), Marie Verment, Laurens J. De Sadeleer, Kenneth Verstraete, Nico De Crem, Ellen De Langhe, Adriana Dubbeldam, Erik K. Verbeke, Johny Verschakelen, Birgit Weynand, Jonas Yserbyt, Sascha Vermeere, Stijn E. Verleden, Wim A. Wuyts
OA1393
Association of mUC5B rs35705950 minor allele with age and survival in European patients with Idiopathic Pulmonary Fibrosis

OA1394
Nationwide prospective registry of idiopathic interstitial pneumonias with central multidisciplinary diagnosis in Japan (JIPS Registry): Analysis of disease progression

OA1395
Late Breaking Abstract - An interim analysis of a phase 2 trial evaluating oral nalbuphine extended release for treating chronic cough in idiopathic pulmonary fibrosis
William Forbes (New Haven, United States), Toby M. Maher, Enoch Bortey, Thomas Sciascia

OA1396
Late Breaking Abstract - Additive effect of BI 1015550 and nintedanib in patients with IPF
Luca Richeldi (Roma, Italy), Arata Azuma, Vincent Cottin, Christian Hesslinger, Susanne Stowasser, Claudia Valenzuela, Marlies Wijsenbeek, Daniel Wachtlin, Donald Zoz, Toby Maher

OA1397
Late Breaking Abstract - Interim results from AIR, an open-label, single arm, 36-week ph 2 trial of C21 in subjects with idiopathic pulmonary fibrosis
Rohit Batta (Maidenhead, United Kingdom), Toby Maher, Cecilia Ganslandt, Göran Tornling, Thomas Bengtsson, Himanshu Pophale, Elin Rosendahl

OA1398
Discussion
All Speakers

8L Session 174 14:15 - 15:30

Oral presentation: Best of imaging research: highlights in 2022
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Imaging, Pulmonary function testing, Physiology
Chairs: Helmut Prosch (Wien, Austria), Ádám Domonkos Tárnoki (Budapest, Hungary)

OA1399
Machine learning analysis of human pulmonary extracellular matrix architecture identifies disease-specific remodeling patterns
Thomas Kromann Lund (Copenhagen NV, Denmark), Monica Jane Emerson, Oliver Willacy, Chris Madsen, Raphael Reuten, Christian Belfort Brochner, Anders Bjorholm Dahl, Thomas Hartvig Lindkaer Jensen, Janine Terra Erler, Alejandro Enrique Mayorga-Guiliani

OA1400
Airway inter-tapering and tortuosity predict mortality in idiopathic pulmonary fibrosis
Ashkan Pakzad (London, United Kingdom), Wing Keung Cheung, Nesrin Mogulkoc, Recep Savas, Daniel C. Alexander, Yipeng Hu, John R. Hurst, Joseph Jacob

OA1401
Ultra-high-resolution photon-counting CT of the lungs: a comparative study
Valerie Van Ballaer (Leuven, Belgium), Adriana Dubbedam, Lesley Cockmartin, Emanuele Muscogiuri, Johan Coolen, Walter Coudyzer, Walter De Wever

OA1402
Deep learning model for the quantification of lung abnormalities in ILD patients
Akshayaa Vaidyanathan (Liege, Belgium), Flore Belmans, Francois Blisteen, Ingrid Van Peufflik, Wim Vos, Sean Walsh, Marielena Occhipinti, Julien Guiot

OA1403
Longitudinal lung function assessment of patients hospitalised with COVID-19 using 1H and 129Xe lung MRI
Laura Saunders (Hope Valley, United Kingdom), Guilhem Collier, Ho-Fung Chan, Paul Hughes, Laurie Smith, James Watson, Zoe Gabriel, James Meiring, Megan Plowright, Thomas Newman, James Eaden, Jody Bray, Helen Marshall, David Capener, Leanne Armstrong, Jennifer Rodgers, Martin Brook, Alberto Biancardi, Madhwshe RAO, Graham Norquay, Oliver Rodgers, Ryan Munro, Neil Stewart, Gisli Jenkins, James Grist, Fergus Gleeson, Fred Wilson, Anthony Cahm, Andy Swift, Smitha Rajaram, Gary Mills, Lisa Watson, Paul Collini, Rod Lawson, Roger Thompson, Jim Wild

OA1404
Patient acceptability of dynamic chest radiography compared to pulmonary function testing
Fred Fyles (Liverpool, United Kingdom), Ryan Robinson, Fathimath Farah Shiham, Karl Hunter, Catherine Lowe, Hassa Burhan

OA1405
Longitudinal chest-CT findings after moderate to critical COVID-19 pneumonia
Antine Flikweert (Breda, Netherlands), Arthur Du Mee, Ingrid De Backer, Simone van der Sar
**OA1406**

**Association of CT imaging and clinical definitions of chronic bronchitis in the COPD phenotyping study**
Marisa Fat (Sacramento, United States), Seoncheol Park, Feridoun Abtin, Jonathan Phillips, John Belperio, Donald Tashkin, Christopher Cooper, Igor Barjaktarevic

**OA1407**

**Comparison of 19F-MRI, CT and spirometry in a patient with airways disease**
Charlotte Holland (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Ben Pippard, Ian Forrest, Rod Lawson, Holly F. Fisher, John N.S. Matthews, Kieren G. Hollingsworth, A. John Simpson, Jim. M Wild, Pete E. Thelwall

**OA1408**

**Discussion**
All Speakers

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**8M Session 175 14:15 - 15:30**

**Oral presentation:** Chronic airway diseases: from phenotypes to severity

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

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

**Chairs:** Petros Bakakos (Athens, Greece), Mona Bafadhel (London, United Kingdom)

**OA1409**

**The Upper and Lower Airway Microbiome in Severe Asthma**
Maisha Jabeen (Oxford, United Kingdom), Nicholas Sanderson, Clair Barber, Laurie C K Lau, Ian D Pavord, Anoop Chauhan, Paul Klenerman, Teresa Street, Peter Howarth, Timothy S C Hinks

**OA1410**

**Comparison of the influence of omalizumab and mepolizumab on airway remodeling in severe asthma patients with evaluation of detection techniques: endobronchial ultrasound (EBUS) and high-resolution computed tomography (HRCT)**
Marek Przybyszowski (Kraków, Poland), Weronika Zastrzeżyńska, Agnieszka Gawlewicz-Mroczka, Iwona Gross-Sondej, Jacek Zarychta, Stanisława Bazan-Socha, Grazyna Bochenek, Jerzy Soja, Krzysztof Sładek

**OA1411**

**Radiomics for severe asthma phenotyping and endotyping**
Paolo Montuschi (Roma (RM), Italy), Nazanin Zounemat Kermani, Giuseppe Macis, Per S Bakke, Massimo Caruso, Pascal Chanez, Ratko Djukanovic, Stephen J Fowler, Yi-Ke Guo, Ildiko Horvath, Peter H Howarth, Anke I Maitland-Van Der Zee, Mario Malerba, Graham Roberts, Marek Sanak, Dominic Shaw, Susan J Wilson, Salman Siddiqui, Sven-Erik Dahlen, Kian Fan Chung, Ian M Adcock, On Behalf Of The U-Biopred Study Group

**OA1412**

**Risk factors for corticosteroid- and antibiotic only-treated asthma attacks in the NOVELTY cohort**
Simon Couillard (Sherbrooke, Canada), Stefan Peterson, Thomas Bengtsson, Maarten Van Den Berge, David Price, Richard Beasley, Mohsen Sadatsafavi, Christer Janson, Alberto Papi, Laura Belton, Malin Fagerås, Hana Müllerová, Ian D Pavord

**OA1413**

**A primary ciliary dysfunction might be present in severe asthma**
Céline Kempeeneers (Liège, Belgium), Romane Bonhiver, Noemie Bricmont, Maud Pirotte, Françoise Guissard, Catherine Moermans, Marie-Christine Seghaye, Renaud Louis, Florence Schleich

**OA1414**

**Alterations of humoral immune response in the bronchi of rapid decliners with chronic obstructive pulmonary disease**
Francesca Dossena (Gattinara, Italy), Antonino Di Stefano, Isabella Gnenmi, Vitina Carriero, Francesca Bertolini, Francesco Nuccera, Silvestro Ennio D'Anna, Mauro Maniscalco, Paola Brun, Alessio Piraino, Antonio Spanevello, Bruno Balbi, Gaetano Caramori, Fabio Lm Ricciardolo

**OA1415**

**Influence of parental disease phenotypes and smoking on fractional exhaled nitric oxide values in offspring**

**OA1416**

**Neither baseline blood nor sputum eosinophils predict future exacerbations in the SPIROMICS cohort**
Annette Ho (Winston-Salem, United States), Pedro Miguel Quibrera, David Couper, Neil Alexis, Igor Barjaktarevic, Jeffrey Curtis, Eugene Bleecker

**OA1417**

**Stability of sputum eosinophil cell counts in COPD**
Augusta Beech (Manchester, United Kingdom), Natalia Jackson, Dave Singh

**OA1418**

**Late breaking abstract - Clinical predictors and phenotypic associations of mucus plugging in moderate to severe asthma**
Rory Chan (Glasgow, United Kingdom), Chary Duraikannu, Brian Lipworth

**OA1419**

**Discussion**
All Speakers
Skills workshop: SW3 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls in exercise, muscle and sleep assessment

**Aims:** To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.

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

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

**Tag(s):** Clinical

**Chairs:** Pierantonio Laveneziana (Paris, France)

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<th>Presenter(s)</th>
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<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:30</td>
<td>Cardiopulmonary exercise testing: breathing patterns and dynamic hyperinflation</td>
<td>Pierantonio Laveneziana (Paris, France)</td>
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<tr>
<td>14:30</td>
<td>Respiratory and locomotor muscle testing in clinical practice</td>
<td>Daniel Langer (Leuven, Belgium)</td>
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<td>14:30</td>
<td>From different pathophysiological traits revealed by polysomnography to treatment indications or combination of therapies</td>
<td>Manuel Sanchez De La Torre (Lleida, Spain)</td>
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<tr>
<td>14:30</td>
<td>Implementation, titration and follow-up of positive airway pressure in patients with obstructive sleep apnoea</td>
<td>Athanasia Pataka (Thessaloniki, Greece)</td>
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Language session: Spanish/Portuguese programme 2022

Aims: There has been a significant evolution in the screening, diagnosis, staging, and treatment and these issues were not be the object of presentations in the sessions of the last years. This session will be delivered in Spanish and Portuguese. It will not be translated in English.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

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

**Chairs:** António Manuel Morais (Maia, Portugal), Carlos Robalo Cordeiro (Coimbra, Portugal), Maria Joana Pereira Catarata (Porto, Portugal), Sebastián Lamot (Neuquén, Argentina), Irma De Godoy (BOTUCATU, Brazil), Juan Pablo de Torres Tajes (Kingston, Canada)

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<tr>
<td>14:45</td>
<td>Lung Cancer Screening- time to move forward?</td>
<td>Luis Miguel Seijo Maceiras (Madrid, Spain)</td>
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<tr>
<td>15:00</td>
<td>Intervention Bronchoscopy in the diagnosis and staging of Lung Cancer</td>
<td>Lucia Carolina Viola Muñoz (Bogotá, Colombia)</td>
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<tr>
<td>15:15</td>
<td>Immunotherapy-based strategies</td>
<td>Gustavo Falibischew Prado (São Paulo (SP), Brazil)</td>
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<td>15:30</td>
<td>Targeted therapy-based strategies</td>
<td>Maria Gabriela Oliveira Fernandes (Matosinhos, Portugal)</td>
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<td>15:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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Oral presentation: COVID-19 acute respiratory distress syndrome

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

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

**Chairs:** Christian Karagiannidis (Cologne, Germany), Annemijn Jonkman (Rotterdam, Netherlands)
Usefulness of day-one chest X-ray score for predicting mortality and ICU admission in COVID-19 patients
THI TRIEU NGHI HOANG (HOCHIMINH-CITY, VIETNAM, Vietnam), Hai Dang Tran, Duc Tuan Tran, Manh Cuong Dang, Tra My Ton-Nu, Le Hong Minh Trinh, Huu Hanh Nhi Le, Ngoc My Le Thi, Trinh Tran Cong, Dong Nhat Nam Dong, Anh-Tuan Dinh-Xuan

Predictive value of ultrasonic diaphragm thickening score combined with P0.1 in patients with mechanical ventilation
Tao Yang (Changchun (Jilin), China), Wenwen Han

Synchronous diaphragm neurostimulation reduced mechanical work required to ventilate pigs with ARDS
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Jessica Wittmann, Michelle Nicholas, Marlena Ornowska, Matt Gani, Steven Reynolds

Diaphragm neurostimulation attenuates hippocampal pro-inflammatory microglia percentage in an ARDS porcine model
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Matt Gani, Doug Evans, Steven Reynolds

Improved atelectasis and lung homogeneity with diaphragm neurostimulation during mechanical ventilation in pigs with ARDS
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Jessica Wittmann, Michelle Nicholas, Marlena Ornowska, Matt Gani, Steven Reynolds

Estimation of transdiaphragmatic pressure using the airway occlusion in critically ill patients
Heder de Vries (Amsterdam, Netherlands), Pieter Tuinman, Annemijn Jonkman, Angelique De Man, Harm-Jan De Grooth, Leo Heunks

When should lung transplant be considered for severe COVID-19 associated ARDS?

One year overview of follow-up in a post-covid consultation of critical patients with covid-19
Jessica Gonzalez Gutierrez (Lleida, Spain), Maria Zuil, Ivan D. Benitez, Maria Aguilà, Sally Santisteve, Fatty Seck, Anna Moncusí-Moix, Clara Gort-Paniello, Antoni Torres, Ferran Barbé

Late Breaking Abstract - The efficacy and safety of intravenous imatinib in invasively ventilated patients with COVID-19 related acute respiratory distress syndrome (InventCOVID): a multicentre, randomised, double-blinded, placebo-controlled, phase II clinical study.
Leila Atmowihardjo (Amsterdam, Netherlands), Job Schippers, Erik Duijvelaar, Imke Bartelink, Pierre Bet, Nienke Van Rein, Keith Purdy, David Cavalla, Alexia Flamarion, Andrew Mcelroy, Sarah Fritchley, Matty Koopmans, Harm Jan Bogaard, Leo Heunks, Nicole Juffermans, Marcus Schultz, Pieter Roel Tuinman, Henrik Endeman, Patricia Van Velzen, Lieuwe Bos, Jurjan Aman

Discussion
All Speakers
OA1444 Modified hypoxic challenge testing in children who need nocturnal ventilation: an observational study
Martin Samuels (London, United Kingdom), Mollie Riley, Stephanie Brotherston, Paula Kelly, Katharine Pike

OA1445 THE IMPACT OF NEW SPIROWARE V3.3.1 SOFTWARE ON THE INTERPRETATION OF CROSS-SECTIONAL N2MBW DATA IN SICKLE CELL ANEMIA
Michele Arigliani (London, United Kingdom), Mollie Riley, Paul Aurora

OA1446 Effects of a volatile compound filter on breath profiles measured by real time high resolution mass spectrometry
Leo Thanikkel (Aesch-Zh, Switzerland), Ronja Weber, Sophia Moeller, Jerome Kaeslin, Yvette Baumann, Nathan Perkins, Srdjan Micic, Alexander Möller

OA1447 Novel capnographic inhomogeneity indices in preterm infants and infants with cystic fibrosis
Anne-Christianne Kantgens (Grindelwald, Switzerland), Sotirios Fouzas, Marion Curdy, Yasmin Salem, Marc-Alexander Oestreich, Sophie Yammine, Philipp Latzin

OA1448 Discussion
All Speakers

OA1449 Progression of systemic sclerosis-associated ILD (SSc-ILD) and effect of nintedanib in subgroups by monocyte and neutrophil counts
Michael Kreuter (Heidelberg, Germany), Christopher P Denton, Lawrence A Ho, Rachel K Hoyle, Ian Glaspole, Takafuli Suda, Corinna Miede, Margarida Alves, Toby M Maher

OA1450 Cohort enrichment strategies for progressive interstitial lung disease in systemic sclerosis from EUSTAR
Anna Maria Hoffmann-Vold (Oslo, Norway), Cathrine Brunborg, Paolo Airò, Lidia P Ananyeva, László Czirják, Serena Guiducci, Eric Hachulla, Mengtao Li, Carina Mihai, Gabriela Riemekasten, Petros P Sfikakis, Gabriele Valentini, Otylia Kowal-Bielecka, Yannick Allanore, Oliver Distler

OA1451 Plasma-derived exosomal miRNAs as non-invasive biomarkers for lung involvement in systemic sclerosis
Makon-Sébastien Njock (Liège, Belgium), Monique Henket, Pierre Jacquere, Catherine Moermans, Dominique De Seny, Michel Malaise, Renaud Louis, Julien Guiot

OA1452 Extensive autoantibody panel in Systemic sclerosis associated Interstitial Lung Disease
Carmel Stock (London, United Kingdom), Benjamin Seeliger, Paolo Cameli, Maria Kokosi, Vasilis Kouranos, Peter George, Philip Molyneux, Felix Chua, Yoon Ong, David Abraham, Christopher Denton, Gisli Jenkins, Athol Wells, Jacqueline Donovan, Elena Bargagli, Antje Prasse, Torsten Witte, Elisabetta Renzoni

OA1453 Persistent inflammation in systemic sclerosis is strongly associated with mortality: a EUSTAR database analysis
Sabina A. Guler (Bern, Switzerland), Adela-Cristina Sarbu, Odile Stadler, Yannick Allanore, Vera Bernardino, Jörg H.W. Distler, Armando Gabrielli, Anna-Maria Hoffmann-Vold, Marco Matucci-Cerinic, Ulf Müller-Ladner, Vera Ortiz-Santamaria, Simona Rednic, Valeria Ricciere, Vanessa Smith, Susanne Ullman, Ulrich Walker, Thomas Geiser, Oliver Distler, Britta Maurer, Florian Kollett

OA1454 Effects of nintedanib in patients with systemic sclerosis-associated ILD (SSc-ILD) and differing levels of lung function impairment
Athol Wells (London, United Kingdom), Wim A Wyts, Sven Gläser, Alfredo Guillen-Del-Castillo, Hilaria Nunes, Masaki Okamoto, Rozeta Simonovska, Margarida Álves, Kristin B Highland

OA1455 Lung involvement in early rheumatoid arthritis, interim analysis of the FINDRA prospective study
Antoine Froidure (Bruxelles, Belgium), Marie Perrot, Benoît Ghaye, Deniz Zan, Aleksandra Avramovska, Maria Stoenou, Marie Doyen, Sandra Koenig, Patrick Durez

OA1456 Serum KL-6 improves prediction of progressive phenotype (PP) at one year independently of underlying interstitial lung disease (ILD): results from the VAMOS study.
Francesco Bonella (Düsseldorf, Germany), Maria Carmen Vega Sanchez, Diego Castillo Villegas, Paloma Millan-Billi, Eva Gottstein, Olga Sánchez Pernaute, Élена Bargagli, María Molina Molina

OA1457 Predictors of Interstitial Lung Disease (ILD) in patients with Idiopathic Inflammatory Myopathy-associated (IIM)
Elisabetta Balestro (Padova (PD), Italy), Elisabetta Cocconcelli, Elisabetta Zanatta, Serena Bellani, Gioele Castelli, Simone Petrarulo, Luca Iaccarino, Paolo Spagnolo
Mini symposium: Tobacco control during the pandemic

Aims: to review the epidemiology and trends of tobacco, e-cigarette use during the pandemic, highlighting the novel methods developed in cessation; to discuss the recent changes in regulations such as about synthetic nicotine and menthol; to review the tobacco industry tactics during the pandemic; to stress the need for effective regulation to prevent tobacco industry pharmaceutical transformation of the industry.

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Paediatrician, Patient, Scientist (basic, translational), Journalist, Medical Technical Assistant, Nurse, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon

Chairs: Ane Johannessen (Bergen, Norway), Jonathan Grigg (London, United Kingdom)

15:45 Implications of menthol, aromas and tobacco free nicotine alternatives
- Paraskevi Katsaounou (Athens, Greece)

16:00 Pharmaceutical transformation of the industry
- Ash Göręk Dilektaşlı (Bursa, Turkey)

16:15 Exposure of children to tobacco advertising; what more do we have to do?
- Alexander Möller (Zürich, Switzerland)

16:30 Discussion and Q&A
- All Speakers

Clinical cases: Lungs on fire: Respiratory infections?

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

Disease(s): Respiratory infections

Tag: Clinical

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

Chairs: Eva Polverino (Barcelona, Spain), Holly R. Keir (Dundee (Angus), United Kingdom), Giovanni Sotgiu (Sassari, Italy)

Discussants: Daiana Stolz (Basel, Switzerland), James D. Chalmers (Dundee (Angus), United Kingdom)

16:00 Case 1 incl. panel discussion and Q&A - Author: M. Saad (Italy)
- Daiana Stolz (Basel, Switzerland)

16:22 Case 2 incl. panel discussion and Q&A - Author: S. Yuvarajan (India)
- James D. Chalmers (Dundee (Angus), United Kingdom)

16:44 Case 3 incl. panel discussion and Q&A - Author: D. Rodrigo (Sri Lanka)
- Daiana Stolz (Basel, Switzerland)

17:06 Case 4 incl. panel discussion and Q&A - Author: S. Wickramasinghe (Sri Lanka)
- James D. Chalmers (Dundee (Angus), United Kingdom)

Hot topics: The future of inhalation therapy in COPD

Aims: To update colleagues on novel findings in inhalation therapy in COPD in order to provide them with current and future knowledge in the field.
Symposium: Update on pulmonary embolism management

Aims: to discuss guidelines that help identify risk factors for pulmonary embolism (PE) and venous thromboembolism (VTE); to debate definitions and their major impact on management of the disease (extended vs. short-term anticoagulant therapy); to assess the adequacy of these risk factors and whether treatment with direct-acting oral anticoagulants should reconsider any of them; to review the scores and data available to help decide when to continue or suspend anticoagulant treatment; to review the risk of thrombosis associated with COVID-19; to describe anticoagulation regimens used to treat VTE and prophylaxis to prevent recurrence in hospitalised patients; to explain the proper anticoagulation strategies for hospitalised COVID-19 patients and define the proper anticoagulation for outpatients in the active or convalescent phase of infection.

Disease(s): Pulmonary vascular diseases, Respiratory infections, Thoracic oncology

Method(s): General respiratory patient care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

Chairs: Mona Lichtblau (Zürich, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France), Laurent Bertoletti (Saint Etienne Cedex, France)

16:00 Cancer-associated thrombosis: case fatality rates and scores to balance the risks and benefits of long-term anticoagulant treatment
Marc Carrier (Ottawa (ON), Canada)

16:15 Prevention and treatment of pulmonary embolism related to COVID-19
Stéphane Zuily (Vandoeuvre-lès-Nancy, France)

16:30 Relevance of the term “provoked” in the management of PE: PRO
Francis Couturaud (Brest, France)

16:45 Relevance of the term “provoked” in the management of PE: CON
Remedios Otero Candelera (Sevilla, Spain)

17:00 Discussion and Q&A
All Speakers
**Symposium: Reflections from the 2022 Lung Science Conference**

**Aims:** The ERS Lung Science Conference is at the forefront of basic and translational respiratory science, and it is an essential event for budding respiratory researchers looking to boost their career. It offers a unique opportunity to network with peers from across the globe and aims to present cutting-edge abstracts on novel experimental lung research. The Lung Science Conference 2022 took place on March 10–13 in Estoril, Portugal with the following overarching theme: “Mucosal immunology of the lung: Balancing protective immunity and chronic inflammation”. This session features a selection of scientific presentations that were given at this conference. In addition, the session highlights the winners of the William MacNee Award for young presenters (40 years old or less at the time of the Conference) who submitted an outstanding abstract, and of the Geoffrey Laurent Award for the Best Oral presentation.

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

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

**Tag(s):** Basic science

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

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Silke Meiners (Sülfeld, Germany)

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16:00  The discovAIR project: a roadmap to the Human Lung Cell Atlas  
Malte Lücken (Oberschleisheim, Germany)  
1483

16:15  Human CD116+ foetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo  
Elza Evren (Stockholm, Sweden)  
1484

16:22  Inflammatory blood neutrophils in COPD stem from activated bone marrow progenitors  
Theodore Kapellos (Mannheim, Germany)  
1485

16:29  Local and systemic response to SARS-CoV-2 infection in children and adults  
Kerstin Meyer (Cambridge, United Kingdom)  
1486

16:44  Virus-provided protection against allergic asthma  
Laurent Gillet (Liège, Belgium)  
1487

16:59  Discussion and Q&A  
All Speakers  
1488
**Aims**: to provide skills and background knowledge needed to perform the hypoxic challenge test and oxygen assessments utilising blood gas analysis according to best practice and in accordance with the latest recommendations; to describe the basic principles, techniques and associated physiology for performance of the hypoxic challenge test, oxygen assessments and arterial/capillary blood gas analysis; to discuss standardisation of test performance in accordance with the latest best practice guidelines; to provide background knowledge needed to perform the tests, compile reports and interpret the results; to provide technical and physiological knowledge needed to perform the tests.

**Chairs**: Maria Bonsignore (Palermo, Italy), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

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<td>Blood gases</td>
<td>Julie Lloyd (Birmingham (West Midlands), United Kingdom)</td>
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<td>16:45</td>
<td>Q&amp;A</td>
<td>Julie Lloyd (Birmingham (West Midlands), United Kingdom)</td>
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<td>16:50</td>
<td>Oxygen assessment</td>
<td>Magnus Ekström (Lund, Sweden)</td>
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<td>17:05</td>
<td>Q&amp;A</td>
<td>Magnus Ekström (Lund, Sweden)</td>
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<td>17:10</td>
<td>Hypoxic challenge</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<td>17:25</td>
<td>Q&amp;A</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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**18:00-19:00**
**INDUSTRY VIRTUAL SYMPOSIUM**
SEE PAGE 1

**18:00-19:30**
**INDUSTRY EVENING SYMPOSIUM**
SEE PAGE 1

**18:00-19:30**
**INDUSTRY EVENING MINI-SYMPOSIUM**
SEE PAGE 1
8D  Session 217  08:00 - 10:20
Skills workshop: SW4 Cardiopulmonary rehabilitation beyond the basics

Aims: To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach; to describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity; to describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment; and to describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.

Disease(s): Airway diseases
Method(s): Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Respiratory therapist, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Journalist

Chairs: Heleen Demeyer (Leuven, Belgium)

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<th>Time</th>
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<tr>
<td>08:00</td>
<td>Introduction</td>
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| 08:00 | Physical activity assessment and intervention  
Chris Burtin (Diepenbeek, Belgium) |
| 08:00 | Neuromuscular electrical stimulation  
Anouk W. Vlaes (Horn, Netherlands) |
| 08:00 | Frailty assessment and intervention  
Roberto Benzo (Rochester, United States) |
| 08:00 | Mindfulness interventions during cardiopulmonary rehabilitation  
Ingeborg Farver-Vestergaard (Vejle, Denmark) |

8N  Session 218  08:15 - 09:30
Oral presentation: Cardiopulmonary exercise and challenge testing: utilisation and safety implications

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Physiology, Pulmonary function testing, General respiratory patient care, Pulmonary rehabilitation

Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Aisling McGowan (Dublin 15, Ireland)

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<th>Session Details</th>
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| OA1604  Cardiopulmonary exercise test & risk assessment in lung resection surgery: A Tunisian experience  
Hana Mrassi (Tunis, Tunisia), Nozha Ben Salah, Hana Blibeche, Houida Snene, Mahdi Abdennadher, Line Kaabi, Soumaya Debbiche, Nadia Mehiri, Taher Mestiri, Adel Marghli, Bechir Louzir |
| OA1605  Evaluation of covid-19 lung involvement effect on exercise capacity in the 3rd and 6th months  
Elif Yilmazel Uçar (Erzurum, Turkey), Omer Araz, Bugra Kerget, Kadir Ozmen, Metin Akgun, Leyla Saglam |
| OA1606  Transition to a physiologist led cardiopulmonary exercise testing (CPET) service and evaluation of one year outcomes  
Sara Mcarthur (Edinburgh (Edinburgh), United Kingdom), Jill Macleod, Shaun Baxter, Kristofer Cuthbert |
Comparing peripheral capillary oxygen saturation during a six-minute walk test with arterial saturation during a cardiopulmonary exercise test
Liv Karin Vesteng (Jessheim, Norway), Christine Gudim Karlsen, Anita Grongstad

The role of transcutaneous carbon dioxide measurement during exercise.
Rachel Ong-Salvador (Amsterdam, Netherlands), Patrick Jak, Rolien Bekkema, Joost Van Den Aardweg

Effects of tidal expiratory flow limitation on lung functions, exercise limitation and symptoms severity in stable COPD
Amit Kiran Rath (Raipur, India), Vikas Kumar, Dibakar Sahu, Sajal De

Recovery after histamine provocation: predictive power of gender and body mass index
Catharina C de Vreede (Delft, Netherlands)

Methacholine challenge: Safety of the quadrupling protocol
Irene Steenbruggen (Zwolle, Netherlands), Peter De Laat

Late Breaking Abstract - Adopting the 2019 ATS/ERS spirometry guidelines in clinical trials: impact on site and patient burden.
Philip Lake (Monmouth (Gwent), United Kingdom), Kevin McCarthy, Dawn Patterson, Marc-Aurel Baumle, Reza Farienfar, Jose Ramos

Volume of trapped gas in adolescents with cystic fibrosis starting CFTR modulator therapy
Marie-Pier Dumas (Toronto, Canada), Renee Jensen, Michelle Shaw, Aviva West, Samal Munidasa, Brandon Zanette, Jason Woods, Paul D. Robinson, Giles Santyr, Felix Ratjen

Long-term benefits of early initiation of ivacaftor (IVA) in people with cystic fibrosis (CF): interim results from an ongoing registry-based study
Mark Higgins (London, United Kingdom), Nataliya Volkova, Thalia Farietta, Meng Liu, Runyu Wu, Alexander Elbert, Susan C. Charman, Andrew Lee, Steven Cunningham

Long-term effectiveness of dual CFTR modulator treatment of Cystic Fibrosis
Danya Muliwijk (Utrecht, Netherlands), Domenique Zomer, Vincent Gultmans, Rene Eijkemans, Kors Van Der Ent

A multimodal MRI protocol for structure and functional lung, gut and liver imaging in cystic fibrosis (CF) for children aged 6 and above.
Christabella Ng (Nottingham, United Kingdom), Naaventhan Palaniyappan, Zachary Peggs, Alex Yule, Christopher Bradley, Neele Dellschaff, Jonathan Brooke, Luca Marciani, Robin Spiller, Guruprasad Athal, Caroline Hoad, Susan Francis, Penny Gowland, Ian Hall, Andrew Prayle, Alan R Smith

Multivolume Magnetic Resonance Imaging (MRI) to assess response to triple-combination Elexacaftor/Tezacaftor/Ivacaftor (ETI) in the lung of patients with Cystic Fibrosis (CF)
Francesca Pennati (Milano (MI), Italy), Irene Borzani, Erica Nazzari, Maria Chiara Russo, Giulia Bischetti, Chiara Rosazza, Calogero Sathya Sciarrabba, Alessandra Mariani, Gianpaolo Carrafiello, Andrea Aliverti, Carla Colombo

Efficacy of elexacaftor/tezacaftor/ivacaftor therapy assessed by lung ultrasound
Uros Krivec (Ljubljana, Slovenia), Marina Praprotnik, Malena Aldeo, Dušanka Lepej, Aleksandra Zver, Jasna Rodman Berlot, Saša Sešina Smid, Spela Dolenc, Jana Lozar Krivec

Breath profiles in cystic fibrosis children treated with CFTR modulators
Elias Seidl (München, Germany), Johann-Christoph Licht, Gitte Slingers, Rianne De Vries, Felix Ratjen, Hartmut Grasemann

Elexacaftor-tezacaftor-ivacaftor (ETI) treatment improves Lung Clearance Index (LCI) in patients with Cystic Fibrosis (CF) independently from baseline respiratory function
Sonia Volpi (, Italy), Francesca Lucca, Riccardo Guarise, Antonella Borruso, Monica Signorini, Marco Cipolli
OA1623 Effect of ELX/TEZ/IVA treatment on lung ventilation in children with cystic fibrosis – comprehensive assessment using spirometry, MBW, structural and functional lung MRI
Carmen Streibel (Bern, Switzerland), Christoph Corin Willers, Orso Pusterla, Grzegorz Bauman, Oliver Bieri, Enno Stranzinger, Ben Brabandt, Philipp Latzin, Elisabeth Kieninger

OA1624 Late Breaking Abstract - A multimodal cell atlas of the pediatric lower airway
Melanie Neeland (Parkville, Australia), Shivanthan Shanthikumar, Jovana Maksimovic, Alicia Oshlack, Sarath Ranganathan

OA1625 Discussion
All Speakers

8L Session 220 08:15 - 09:30
Oral presentation: Digital medicine for COVID-19
Disease(s): Airway diseases, Sleep and breathing disorders, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory critical care
Method(s): Epidemiology, General respiratory patient care, Public health, Imaging, Pulmonary rehabilitation, Pulmonary function testing
Chairs: Hilary Pinnock (Edinburgh, United Kingdom), Omar S. Usmani (London, United Kingdom)

OA1626 Developing a multivariate prediction model for the detection of COVID-19 from crowd-sourced respiratory voice data.
Wafaal Aljbawi (Amstelveen, Netherlands), Sami Simons, Visara Urovi

OA1627 Deep learning-based hybrid clinical decision support system algorithm for COVID-19 diagnosis via PCR graphics and Thorax CT images, preliminary data
Elvan Burak Verdi (ANKARA, Turkey), Memetcan Gok, Deniz Dogan Mülazimoglu, Merve Begum Terzi, Aslihan Gurun Kaya, Serhat Erol, Ozlem Isik, Onur Utku Guvendik, Caglar Uzun, Atilla Halil Elhan, Zeynep Ceren Karahan, Alpay Azap, Akın Kaya, Orhan Arikan, Ozlem Ozdemir Kumbasar

OA1628 Telemedicine implementation for management of COVID-19 patients at hospital admission: a single center experience
AYCAN YUKSEL (Ankara, Turkey), Nalan Ogan, Ceren Ilgär, Esen Sayın Gülensoy, Hale Çolakoğlu Er, Samet Altunbaş, Evrim Eylem Akpinar

OA1629 Altea: Improving Long COVID affected people’s quality of life by knowledge and experience sharing
Natalie Rangelov (Wallisellen, Switzerland), Michael Schlunegger

OA1630 Continuous cough monitoring with AI. Cases: treatment response, smoking cessation and COVID-19
Mindaugas Galvosas (Vilnius, Lithuania), Juan C. Gabaldón-Figueira, Virginia Orrillo, Isabel Blavia, Juliane Chaccour, Alejandro Fernandez-Montero, Nita Umashankar, Nuria Armendáriz, Francisco Javier Bartolomé, Eric M. Keen, Joe Brew, Peter M Small, Simon Grandjean Lapierre, Carlos Chaccour

OA1631 Process evaluation of the Dutch COVID-19 QR code app: an example of citizen science
Esther I. Metting (Groningen, Netherlands), Bart Noort, Wolfgang Ebbers, Lotty Hooft, Joris Van Hoof

OA1632 Demand for hospital-based telemedicine services among outpatients during the Covid-19 outbreak
Qi Tan (Nanjing (Jiangsu), China), Yan Chen, Cheng Zhang, Chun-Yu Li, Megan Murray

OA1633 Self-monitoring using multimodal connected devices in patients with COVID-19 confined at home
Jean-Louis Pépin (Grenoble, France), Mallory Cals-Maurette, Rui-Yi Yang, Pierre Escourrou, Valéry ELIE

OA1634 Tele-medicine in home treatment with physical therapy in the Sars-cov2 pandemic
Simonetta Vernocchi (Gallarate, Italy), Andrea Aceranti, Davide Emedoli, Teresa Serini

OA1635 Late Breaking Abstract - Detecting COVID-19 through cough audio analysis: Pilot study initial results
Shrawan Patel (New York, United States), Freya Cristea, Jack Hanson, Neroli Anderson, Vesa Peltonen, John May, Paul Porter, Tony Keating

OA1636 Discussion
All Speakers

TP-1 in thematic poster area Session 222 08:30 - 09:30
Thematic poster: Clinical problems and management of airway diseases
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<td>Shielah Mauntana (El Paso, United States), Mahesh Gajendran</td>
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<td>Underdiagnosis of chronic obstructive pulmonary disease: a problem that persists</td>
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<td>PA1640</td>
<td>Barriers to early diagnosis and smoking cessation for COPD patients</td>
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<td>Liliya Belenko Gentet (Drucourt, France)</td>
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<td>Development in diagnosed comorbidities over a twelve-month period in patients</td>
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<td>Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyhrman Alsted, Pernille</td>
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<td>Michael Crooks (East Riding of Yorkshire, United Kingdom), Richard Russell,</td>
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<td>Helena Cummings, Kay Roy, Omar Usmani, Judith Cohen, Sarah Macfadyan, Tamsin</td>
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<td>exacerbations of chronic obstructive pulmonary disease (COPD)</td>
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<td>Joseph Kibbler (Carlton, United Kingdom), David P Ripley, Stephen C Bourke,</td>
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<td>John Steer</td>
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<td>PA1644</td>
<td>Impact of treatment with inhaled corticosteroids on COVID-19 risk and outcome</td>
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<td>– a potential protective effect on severity of disease and survival</td>
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<td>Marina Labor (Linköping, Sweden), Fredrik Nyberg, Brian K. Kirui, Lowie</td>
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<td>E.G.W Vanfleteren</td>
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<td>PA1645</td>
<td>Relationship between plasma alpha-1-antitrypsin polymers and lung or liver</td>
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<td>function in ZZ alpha-1-antitrypsin deficient patients</td>
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<td>Sabina Janciauskiene Wallmark (Hannover, Germany), Srinu Tumparra, Beata</td>
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<td>Olejnicky, Malin Fromme, Pavel Strnad, Tobias Welte, Jan Stolk</td>
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<td>PA1646</td>
<td>Effectiveness of Nationwide COPD Pay-for-Performance Program on quality-of-life</td>
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<td>for COPD patients</td>
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<td>Chiuang-Zuei Chen (Tainan, Taiwan), Sheng Han Tsai</td>
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<td>PA1647</td>
<td>Risk of malignancy in patients with asthma-COPD overlap compared to patients</td>
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<td>with COPD without asthma</td>
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<td>Alexander Jordan (Copenhagen N, Denmark), Barbara Bonnesen, Pradeesh Sivapalan,</td>
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<td>Johannes Wierenfeld Pedersen, Christina Marisa Bergsoe, Josefín Eklöf, Louise</td>
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<td>Lindhardt Toennesen, Sidse Graff Jensen, Matiullah Naqibullah, Zaigham Saghir,</td>
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<td>Jens-Ulrik Jensen</td>
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<td>PA1648</td>
<td>Impact of moderate to severe asthma from the patient’s perspective in Spain</td>
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<td>Javier Dominguez-Ortega (Madrid, Spain), V. Plaza, J. Delgado Romero, A. Nieto,</td>
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<td>PA1649</td>
<td>Outcomes after prolonged weaning in COPD patients – Data from the German</td>
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<td>WeanNet-Initiative</td>
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<td>Maximilian Wollsching-Strobel (Köln, Germany), Tobias Freudt, Nina Hämaläinen,</td>
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<td>Stefan Suchi, Wolfram Windisch, Bernd Schönhofer</td>
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<td>PA1650</td>
<td>Evaluation of risk factors for barotrauma complications in COVID-19 patients</td>
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<td>treated with high flow nasal cannula (HFNC)</td>
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<td>Plamen Titorenkov (Sofia, Bulgaria), Dimitar Manoylov, Milena Encheva, Sofia</td>
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<td>Zabadanova, Emilia Naseva</td>
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<td>PA1651</td>
<td>Five-year all-cause hospitalizations in patients with COPD following their</td>
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<td>first-ever exacerbation-related hospitalization</td>
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<td>Kiki Waejen-Smit (Horn, Netherlands), Peter A. Jacobsen, Sarah Houben-Wilke,</td>
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<td>Sami O. Simons, Frits M. E. Franssen, Martijn A. Spruit, Christian T. Pedersen,</td>
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<td>Kristian H. Kraghholm, Ulla M. Weinreich</td>
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<td>PA1652</td>
<td>Over-the-counter (OTC) short-acting β2-agonist (SABA) purchase and asthma</td>
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<td>outcomes in SABINA III</td>
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<td>Hisham Farouk (Dubai, United Arab Emirates), Walter Javier Mattarucco, Rocio</td>
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<td>Martina Barriga, Hao-Chien Wang, Dina Diaz, Adel Khatib, Manuel Pacheco Gallego,</td>
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<td>Ashraf Al Zaabi, David Price</td>
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<td>PA1653</td>
<td>Severe eosinophilic asthma with paradoxal worsening T2 bronchial inflammation</td>
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<td>despite sequential treatment with mepolizumab and benralizumab</td>
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<td>Nicolas Migueres (Strasbourg, France), Christophe Marcot, Najib Khayath, Frederic</td>
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Three sensitization patterns to mugwort, timothy, birch and their main allergen components revealed by latent class analysis
Wu Liting (Guangzhou, China), Luo Wenting, Hu Haisheng, Zheng Xianhui, Chen Yuemin, Sun Baoqing

Effect of positive airway pressure (PAP) therapy in patients with excessive dynamic airway collapse (EDAC)
Neeraj Shah (New Malden (Surrey), United Kingdom), Kinjal Jadeja, Michael Cheng, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Nicholas Hart, Eui-Sik Suh, Patrick Murphy, Georgios Kaltsakas

Nasal high flow oxygen therapy compared to conventional oxygen therapy in hospitalised patients with respiratory illness: a systematic review and meta-analysis
Daniel Seow (Singapore, Singapore), Yet Hong Khor, Su Wei Khung, David Smallwood, Yvonne Ng, Natasha Smallwood

Extended-release morphine for chronic breathlessness in COPD: a randomized controlled trial with blinded up-titration over three weeks
Diana Ferreira (Adelaide (SA), Australia), Magnus Ekström, Sungwon Chang, Sandra Louw, Miriam Johnson, Danny Eckert, Belinda Fazekas, Katherine Clark, Meera Agar, David Currow

Thematic poster: Comorbidities in chronic airway diseases

Characterizing healthcare resource use among adults with COPD by presence of comorbidities
Meredith Barrett (Portland, United States), Vy Vuong, Elroy Boers, Ann Cameron, Leanne Kaye, Caleb Woodford, Carlos M. Nunez, Kimberly L. Sterling

Healthcare resource utilization among adults with asthma by disease severity and presence of comorbidities
Meredith Barrett (Portland, United States), Vy Vuong, Elroy Boers, Ann Cameron, Leanne Kaye, Caleb Woodford, Carlos M. Nunez, Kimberly L. Sterling

Airflow obstruction as a marker of prognosis in rheumatoid arthritis
Anna Denis (Liège, Belgium), Céline Regnier, Monique Henket, Nathalie Maes, Marie Thys, Renaud Louis, Michel Malaise, Julien Guiot

Are obesity and visceral adipose tissue a trait of asthma?
Alina Ofenheimer (Zürich, Switzerland), Caspar Schiffer, Emiel Wouters, Patricia Puchhammer, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto Christian Burghuber, Renaud Louis, Sylvie Hartl

Early alterations in lung function in a cohort of patients with non-affective psychotic disorder and a control group.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Ana Viejo Casas, Javier Vazquez Bourgon, Juan Agüero Calvo, Benedicto Crespo Facorro, Mario Ruiz Nuñez, Roberto Garastazu

RISK OF IN-HOSPITAL MORTALITY DUE TO COVID-19 IN PATIENTS WITH BRONCHIAL ASTHMA: APPLICATION OF 4C MORTALITY SCALE.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Gabriella Manzanares Cavi, Walther Ivan Giron Matute, Zichen Ji, Beatriz Recio Moreno, Paola Benedetti, Alicia Oliva Ramos, Luis Puente Maestu, Javier De Miguel Diez

Small airway dysfunction detected by oscillometry in asthma, COPD, and asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon

The association between transfer coefficient of the lung and the risk of exacerbation in asthma-COPD overlap
Hirosaki Ogata (Fukuoka, Japan), Katsuyuki Katahira, Aimi Enokizu-Ogawa, Yujiro Jingushi, Akiko Ishimatsu, Kazuhito Taguchi, Atsushi Moriwaki, Makoto Yoshida

Integrating Care: screening for anxiety and depression in COPD
Thomas Mason (London, United Kingdom), Amy Dewar, Jocelin Hall

Bronchiectasis on chronic obstructive pulmonary disease patients: what special features?
Imen Bachouch (Ariana, Tunisia), Chaima Habouria, Nidhal Balloumi, Khaoula Bouguerra, Nour El Houdauda Khezemi, Asma Zargouni, Fatma Chermiti, Soraya Fennich

Impact of COVID-19 on hospital admissions, health status and behavioral changes of patients with severe COPD
Eva Pappe (Berlin, Germany), Ralf Hammerich, Jacopo Saccomanno, Leonore Erdmann, Thomas Sgarbossa, Martin Witzenrath, Norbert Suttorp, Ralf-Harto Hübner
### Factors underlying the increasing prevalence of comorbidities over time and their mutual relationship in COPD: Results from COSYCONET

Peter Alter (Marburg, Germany), Kathrin Kahnert, Franziska C. Trudzinski, Robert Bals, Henrik Watz, Tim Speicher, Sandra Söhler, Stefan Andreas, Tobias Welte, Klaus F. Rabe, Emiel F.M. Wouters, Christoph Lange, Hubert Wirtz, Joachim H. Ficker, Claus F. Vogelmeier, Rudolf A. Jörres

### Right heart changes depending on the functional status of patients with COPD combined with hypertension

Anastasiia Melenevych (Kharkiv, Ukraine)

### Detection of progressive airway disease on chest computed tomography in the Ataluren CF cohort using an airway-artery algorithm

Qianting Lv (Rotterdam, Netherlands), Leticia Gallardo Estrella, Eleni-Rosalina Andrinopoulou, Pierluigi Ciet, Jean-Paul Charbonnier, Mariette P.C. Kemner - Van De Corput, Daan Caudri, Marleen De Brujne, Harm A.W.M. Tiddens

### Longitudinal variation of nasal nitric oxide in patients with Primary Ciliary Dyskinesia and healthy controls.

Charlotte Olivia Pioch (Berlin, Germany), Niklas Ziegah, Marcus A. Mall, Jobst F. Röhmel

### Vocal biomarkers in COPD: capturing disease severity using voice

Iris Lina Michels (Maastricht, Netherlands), Iris Michels, Visara Urovi, Helmer Strik, Hanneke A. C. Van Helvoort, Sami O. Simons

### Evolution of asthmatic patients at 6 and 12 months after acute COVID-19 recovery


### Vaccination and hospitalization of COVID-19: what difference does it make?

Abir Hedhli Ep Cherni (Tunis, Tunisia), Rihab Jebali, Abir Hedhli, Yassine Ouahchi, Sana Cheikhrouhou, Samira Merai, Sonia Toujani, Meriem Mjid, Bessma Dhahri

### Exercise induced laryngeal obstruction in asthma

Aase Johnsen Rogde (Bergen, Norway), Sverre Lehmann, Haakon Kristian Kvidaland, Ola Drange Røksund, Hege Synnøve Havstad Clemm, Thomas Halvorsen, Maria Vollseter, Tiina Maarit Andersen

### Incidental pulmonary emphysema and COPD cases in a national lung cancer screening program feasibility study.

Anneli Poola (Tartu, Estonia), Anneli Poola, Vahur Makke, Marianna Frik, Piret Viiklepp, Tarvo Kiudma, Urgas Takker, Anneli Rätsep, Kaja-Triin Laisaar, Tanel Laisaar

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### Thematic poster: Allergy and asthma: biomarkers, phenotypes and real-world evidence

**Disease(s):** Airway diseases

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

**Chairs:** Christina Bal (Wien, Austria), Marek Lommatzsch (Rostock, Germany)

### Bronchodilator reversibility in patients with severe asthma included in the GAN registry.

Katrin Milger-Kneidinger (Munich, Germany), Dirk Skowasch, Eckhard Hamelmann, Carlo Müemmler, Marco Idzko, Christian Taube, Annette Holdtir, Hartmut Timmerman, Roland Buhl, Stephanie Korn

### Interrelationships between body mass index, total IgE, and blood eosinophils count in healthy subjects

Rita Amaral (Porto, Portugal), Tiago Jacinto, Andrei Malinovschi, Christen Janson, David Price, Joao Fonseca, Kjell Alving

### Bronchiectasis in severe asthma is associated with eosinophilic airway inflammation and activation

Laurits Frøssing (Copenhagen V, Denmark), Anna Von Bülow, Celeste Forsberg

### Increase in blood eosinophil count over time and sputum IL8 are associated with FEV1 decline in asthma

Sophie Graff (Liège, Belgium), Catherine Moermans, Sara Gerday, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Florence Schleich

### Type 2 biomarker expression according to age of asthma onset: an analysis of the German severe asthma registry (GAN)

Marek Lommatzsch (Rostock, Germany), Christian Taube, Eckhard Hamelmann, Katrin Milger-Kneidinger, Dirk Skowasch, Margret Jandl, Florian Simon Schmitz, Cordula Koerner-Rettberg, Marco Idzko, Roland Buhl, Stephanie Korn
The German Asthma Net: Anti-IL5(R) therapy reduces disease burden in a real-life severe asthma cohort
Christina Bal (Wien, Austria), Marco Ildiko, Katrin Milger, Dirk Skowasch, Christian Schulz, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn

FeNO is not affected by spirometry, IOS or walking in healthy subjects or well controlled asthma patients
Helle Haagensen Andersen (Brabrand, Denmark), Lene Molgaard Pedersen, Maha Mousa, Nuha Mousa, Anne-Sofie Bjerrum, Tina Skjold, Torben Smidt-Hansen, Hans Jürgen Hoffmann, Johannes Martin Schmid

Association between Staphylococcal Enterotoxin (SE)-specific IgE and specific IgE for house dust mites (HDM) in Brazilian patients with Chronic Rhinosinusitis with Nasal Polyps (CRSwNP).
Sergio Dortas Junior (Rio De Janeiro (RJ), Brazil), Priscilla Campos Dos Santos, José Elabaras Filho, Fabiana Da Cruz, Solange Valle, Priscila Ferraio-

Application of urinary proteomics for biomarker discovery in respiratory diseases
Laura Martelo-Vidal (santiago de compostela, Spain), Sara Vázquez-Mera, Pablo Miguëns-Suárez, Francisco Javier Salgado-Castro, Marina Blanco-Aparicio, María Mosteiro-Añón, Gabriel Martínez-Capoccioni, Paula Méndez-Brea, Susana Belén Bravo, Francisco-Javier González-Barcala, Juan José Nieto-Fontargo

Overall response to anti-IL5/anti-IL5Rα treatment in severe asthma does not depend on initial bronchodilator responsiveness
Carlo Mümmler (München, Germany), Hendrik Suhling, Nikolaus Kneidinger, Roland Buhl, Moritz Kayser, Nora Dric, Jürgen Behr, Tobias Welle, Stephanie Korn, Katrin Milger

Factors associated with middle-aged adult obstructive lung function deficits in the grass pollen season
Sabrina Idrose (Australia, Australia), Don Vicendese, Michael Abramson, E. Haydn Walters, Garun Hamilton, Adrian Lowe, Jo Douglass, Caroline Lodge, Shyamali Dharmage

Polygenic risk score constituted by GWAS-identified disease markers helps predict asthma development
Yang Yie Sio (Singapore, Singapore), Fook Tim Chew

The epidemiology of sensitization to perennial aeroallergens in adult patients with severe asthma in Belgium. The Belgian IgE (BEIgE) study
Florence Schleich (Liège, Belgium), Sandra Gurdain, Eleonore Maury, Jan Van Schoor

ICS-LABA prescribing in asthma (maintenance only and MART), clinical and symptom unmet need in Japan
Shiyuan Zhang (Collegeville, United States), Alexandrosz Czira, Julia Harley, Kieran J Rothnie, Lauren Lee, Mark Small

High prevalence of sensitisation to house dust mite in ethnic minority severe asthma patients
Jennifer Kerks (Telford (Shropshire), United Kingdom), Julie Marsh, Ali Bahron, Thirumala Krishna, Gareth Walters, Fiona O'Riordan, Lisa White, Julie Sullivan, Adel Mansur

Asthma comorbidities: frequency, risk factors, and associated burden in children and adolescents
Giovanni Viegi (Pisa (PI), Italy), Salvatore Fasola, Giovanna Cilluffo, Velia Malizia, Laura Montalbano, Amelia Licari, Giuliana Ferrante, Stefania La Grutta

A comprehensive analysis of the components of the common weed pollens and related allergens in patients with allergic diseases in southern China
Wenting Luo (Guangzhou (Guangdong), China), Baoqing Sun

The impact of national lockdown in 2020 on admission rates for exacerbations in asthma; a nationwide cohort study.
Louise Toennesen (København K, Denmark), Barbara Bonnesen, Pradeesh Sivapalan, Alexander Svorre Jordan, Mohamad Isam Saeed, Josefín Eklöf, Charlotte Suppli Ulrik, Kristoffer Grundtvig Skaarup, Mats Christian Højberg Lassen, Tor Biering-Sørensen, Jens-Ulrik Stehr Jensen

Clinico-demographic, radiological and immunological profile of allergic bronchopulmonary aspergillosis in a tertiary care institute of east India.
Arshad Ejazi (Patna, India), Manish Shankar, Satyadeo Chaubey, Dinesh Kumar

Inflammatory phenotypes and comorbidities in mild-to-moderate COPD
Thibaud Soumagne (Paris, France), Sophie Hue, Jean-Charles Dalphin, Bruno Degano

Thematic poster: Factors associated with lung function and prevalence of respiratory diseases

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, Public health, Pulmonary function testing, General respiratory patient care
Chairs: elisa lopez varela (Barcelona, Spain), Jose Leonidas Alves Junior (São Paulo (SP), Brazil)
PA1698  Period and cohort effects: consequences on lung function in Norway during the 20th century
Lucia Cestelli (Bergen, Norway), Ane Johannessen, Knut Stavem, Amund Gulsvik, Rune Nielsen

PA1699  Associations between breast feeding and lung function in middle age
Dinh Bui (Melbourne (VIC), Australia), Jennifer Perret, Caroline Lodge, Adrian Lowe, Gayan Bowatte, Erbas Bircan, Alan James, Michael Abramson, Garun Hamilton, Haydn Walters, Shyamali Dharmage

PA1700  Supranormal lung function by age bins in the LEAD Study
Caspar Schieffers (Vienna, Austria), Rosa Faner, Alina Othenheimer, Patricia Puchhammer, Marie-Kathrin Breyer, Otto Chris Burghuber, Sylvia Hartl, Alvar Agusti, Robab Breyer-Kohansal

PA1701  Cardiovascular disease linked plasma proteins relate mainly to lung volumes
Andreas Rydell (FALUN, Sweden), Elisabeth Nerpin, Xing Wu Zhou, Lars Lind, Eva Lindberg, Jenny Theorell Haglöw, Tove Fall, Christer Janson, Karin Lisspers, Sölve Elmstahl, Suneela Zaigham, Olle Melander, Peter Nilsson, Marju Orhumelander, Johan Arnlov, Andrei Malinovschi

PA1702  Associations of black carbon with lung function in COPD patients
Ornella Salimbene (Buccino, Italy), Ivano Salimbene, Maria Chiara Zanetti, Marco Ravina, Deborah Panepinto

PA1703  Respiratory function in patients post-infection by COVID-19
Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Imen Ketata, Ahmed Dhia Eleuch, Racem Ammar, Rahma Sallami, Hamida Kwass

PA1704  BMI increase – A determinant of FEV1 decline for overweight and obese adults with asthma
Nicolas Bermudez Baron (Luleå, Sweden), Hannu Kankaanranta, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Eva Rönnmark, Helena Backman

PA1705  Changes in COPD prevalence in Madrid from 2007 to 2017
Elena García Castillo (Madrid, Spain), Tamara Alonso Pérez, Jose María Eiros Bachiller, Adrián Peláez Laderas, Patricia Pérez González, Elena Avalos Pérez-Urría, Elisa Martínez Besteiro, Joan B. Soriano, Julio Ancochea

PA1706  Incidence, prevalence and regional distribution of systemic sclerosis and associated interstitial lung disease: a nationwide cohort study
Malene Knarborg (Ry, Denmark), Charlotte Hyldgaard, Elisabeth Bendstrup, Jesper Rømhild Davidsen, Anders Løkke, Saher Burhan Shaker, Ole Hilberg

PA1707  Prevalence of respiratory viruses in COPD exacerbations: A meta-analysis
Alexander Mathioudakis (Stockport, United Kingdom), Anastasia Kefala, Gioulinta Alimani, Victoria Chatzimavridou-Grigoriadou, Nikolaos Papadopoulos, Apostolos Beloukas, Jørgen Vestbo

PA1708  Among both men and women with COPD ever-smokers have higher disease burden and worse prognosis than never-smokers
Ann Lindberg (Boden, Sweden), Erika Szakacs, Caroline Stridsman, Sami Sawalha, Ulf Nilsson, Linnea Hedman, Eva Rönnmark, Helena Backman

PA1709  A descriptive cross-sectional study on prevalence of respiratory diseases among patients visiting Jiri District Hospital, Nepal.
Kiran Paudel (Kathmandu, Nepal), Tara Ballav Adhikari, Durga Rijal, Bhoj Raj Kalauni, Biplav Aryal, Rajan Paudel, Milan Gaihre, Surya Devkota

PA1710  Prevalence of and factors associated with respiratory symptoms among patients with inflammatory bowel disease: a prospective study
Brian Renel (Kockelscheuer, Luxembourg), Simon Valentin, Florian Manneville, Bénédicte Caron, Myriam Choukour, Anne Guillaumot, Ari Chaouat, Mathias Poussel, Thomas Chateau, Carina Peyrin-Biroulet, Hamza Achi, Laurent Peyrin-Biroulet, François Chabot

PA1711  Comparative study of smoking and non-smoking chronic obstructive pulmonary disease.
Ankita Mandal (Lucknow, India), Ajay Kumar Verma, Anuj Kumar Pandey, Arpita Singh, Surya Kant, Ved Prakash, Rakesh Kumar Dixit, Umesh Pratap Singh, Shyam Chand Chaudhari

PA1712  Trends in burden of COPD in Saudi Arabia
Jaber Alqahtani (Dammam, Saudi Arabia)

PA1713  Prevalence of respiratory viruses in stable COPD: A meta-analysis
Alexander Mathioudakis (Stockport, United Kingdom), Anastasia Kefala, Gioulinta Alimani, Victoria Chatzimavridou-Grigoriadou, Nikolaos Papadopoulos, Apostolos Beloukas, Jørgen Vestbo

PA1714  The disease burden and quality of life of chronic cough patients in South Korea and Taiwan
Woo-Jung Song (Seoul, Republic of Korea), Chong-Jen Yu, Sukhyun Kang
PERSISTING SYMPTOMS IN A COHORT OF 1966 SUBJECTS WITH SARS-COV-2 INFECTION: 1 YEAR FOLLOW-UP

Maria Cinta Cumpli Gargallo (Amposta, Spain), Oswaldo Antonio Caguana Vélez, Mercé Comas serrano, Margarita Posso Rivera, Xavier Duran Jordá, Eva Balcells Vilarnau, Mireia Admetllo Papiol, Anna Herranz Blasco, Judith Villar Garcia, Diana Badenes Bonet

Burden of chronic respiratory diseases in population in four South/South-East Asian low-and middle-income countries (LMICs).

BISWAJIT PAUL (Vellore, India), Dhiraj Agarwal, Nik Sherina Hanafi, Ee Ming Khoo, Richard A. Parker, Deesha Ghorpade, Sundeep Salvi, Ahmad Ihsan Abu Bakar, Karuthan Chinna, Deepa Das, Monsur Habib, Norita Hussein, Rita Isaac, Mohammad Shahidul Islam, Mohsin Saeed Khan, Su May Liew, Yong Kek Pang, Samir K Saha, Li Ping Wong, Osman M Yusuf, Shahida O Yusuf, Sanjay Juvekar, Hilary Pinnock

Epidemiology and healthcare impact of IPF in Ontario from 2013-17.

Shannon Tang (Kingston, Canada), Onofre Morán-Mendoza, Shahriar Khan, Ana Johnson

TP-13 in thematic poster area
Session 226
08:30 - 09:30

Thematic poster: Occupational chronic airway, interstitial, pleural and neoplastic diseases

Disease(s): Interstitial lung diseases, Airway diseases, Thoracic oncology
Method(s): Cell and molecular biology, Endoscopy and interventional pulmonology, Public health, Physiology, Epidemiology, General respiratory patient care, Pulmonary function testing, Surgery
Chairs: Benoit Nemery (Leuven, Belgium), Mº Jesus Cruz Carmona (Barcelona, Spain)

Immunopathological mechanisms of bird-related hypersensitivity pneumonitis in an acute and chronic murine model

Silvia Sánchez-Díez (Barcelona, Spain), Miquel De Hommede, Maria Jesús Cruz, Ifiigo Ojangeren, Christian Romero Mesones, David Soler, Xavier Muñoz

Mortality in association with occupational exposure and respiratory diagnosis in Helsinki, Finland – a 24-year follow-up

Juuso Jalasto (Helsinki, Finland), Paula Kauppi, Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Anssi Sovijärvi, Päivi Piirilä

COPD in a sample of retired persons from Skopje region

Sasho Stoiles (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislamovska, Jovanka Karadžinska-Bislamovska

Cardiopulmonary function in women exposed to biomass fuel smoke: Cross-sectional study in rural Maharashtra, India

Rohan Shah (Pune, India), Aboli Bhalerao, Dhiraj Agarwal, Nitin Vanjare, Sapna Madaa, Sanjay Juvekar

Asthma and respiratory symptoms as related to traditional textile industry in Guatemala: a cross-sectional pilot study in Mayan communities

Juan Pablo López-Cervantes (Bergen, Norway), Shokouh Makvandi-Nejad, Fernando Jerez, Ana Lorena Ruano, Cecilie Svanes

Fitness to work and quality of life after pulmonary emphysema surgery

Imene MAGROUN (Ariana, Tunisia), Soumaya Chebbi, Faten Mhiri, Latifa Ben Afia, Dorra Zarati, Adel Merghali, Sarra Zairi

Respiratory health in artisanal copper-cobalt miners in DR Congo

Joseph PYANA KITENGE (Lubumbashi, Democratic Republic of the Congo), Paul Musa Obadia, Trésor Carsi Kuhangana, André Nyongoni, Celestin Banza Lubaba, Jean-Marie Kayembe Ntumba, Antoine Froidure, Benoit Nemery

Mixed dust pneumoconiosis in flour mill workers

Anita Anokar, Himanshu Pophale, Divya Patel, Ram Deoskar, Medha Bargaje

Modelling silica-induced immune response in silica exposed patients

Nirosha Ganesan (Leuven, Belgium), Steven Ronsmans, Peter Hoet

A comparison of the EQ-5D-5L and the AQoL-8D in people living with idiopathic pulmonary fibrosis

Ingrid A. Cox (Bellerive (TAS), Australia), Julie Campbell, Barbara De Graaff, Petr Otvahal, Tamera Corte, Yuben Moodley, Peter Hopkins, Sacha Macansh, Haydn Walters, Andrew Palmer
Behavior and effect of nanoparticles on neutrophil recruitment in the pulmonary microcirculation
Chenxi Li (Munich, Germany), Qiongliang Liu, Tobias Stoeger, Markus Rehberg

Occupational Pulmonary Fibrosis
Ons Grissa (Tunis, Tunisia), Slim Ernez, Saloua Ismail, Nihel Khouja, Amani Dallagi, Aida Benzarti, Jißen Hsinet, Abdalmadjid Ben Jemaa

Occupational Exposures associated with Pulmonary Sarcoidosis: A Systematic Review and Meta-analysis
Christopher C. Huntley (Bromsgrove, United Kingdom), Ketan Patel, Aishah Mughal, Shirley Coelho, P. Sherwood Burge, Alice M. Turner, Gareth I. Walters

Outbreak of silicosis in workers producing silica-based composite skirting boards
Steven Ronsmans (Leuven, Belgium), Pieter Goeminne, Naïm Jerjir, Vicky Nowé, Eline Vandevoorde, Stephan Keirsbilck, Birgit Weynand, Peter H M Hoet, Jeroen A J Vanoorbeeck, Wim A Wuyts, Jonas Yserbyt, Benoit Nemery

Late Breaking Abstract - A major outbreak of artificial stone silicosis in Australia: Results from the Victorian Silica-associated Disease Registry
Ryan Hoy (Melbourne VIC, Australia), Deborah Glass, Dimitriadis Christina, Stellamay Gwini, Fiona Hore-Lacy, Michael Abramson, Karen Walker-Bone, Malcolm Sim

Late Breaking Abstract - Effects of face masks on cardiopulmonary performance in a partly double-blinded randomized cross-over study
Eike Marek (Bochum, Germany), Vera Van Kampen, Birger Jettkant, Benjamin Kendzia, Bianca Strauß, Kirsten Sucker, Melanie Ulbrich, Anja Deckert, Hans Berresheim, Christian Eisenhawer, Frank Hoffmeyer, Simon Weidhaas, Thomas Behrens, Thomas Brüning, Jürgen Bünger

Late Breaking Abstract - Influence of different face masks on the subjective impairment at different physical workloads
Vera van Kampen (Bochum, Germany), Eike Marek, Birger Jettkant, Kirsten Sucker, Benjamin Kendzia, Anja Deckert, Melanie Ulbrich, Hans Berresheim, Frank Hoffmeyer, Simon Weidhaas, Christian Eisenhawer, Thomas Brüning, Juergen Buenger

Thematic poster: Paediatric lung function: new recommendations and evolution in ex-preterm
Disease(s): Airway diseases
Method(s): Pulmonary function testing, Imaging, Epidemiology, Cell and molecular biology
Chairs: Enrico Lombardi (Florence, Italy), Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France)

Childhood Re-Admission Following Preterm Birth Predicts Respiratory Morbidity at 19 Years
Elizabeth Smith (Beaconsfield (WA), Australia), Naomi Hemy, Jasmine Grdosec, Andrew Wilson, Conor Murray, Denby Evans, Graham Hall, Shannon Simpson

Association of air pollution exposure at birth and in childhood with lung function in preterm-born school-aged children
Chris Course (Cardiff, United Kingdom), John Watkins, Sarah Kotecha, Sailesh Kotecha

Effect of IUGR and catch-up growth on later lung function in preterm children: prospective cohort study
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Michael Cousins, Kylie Hart, W John Watkins, Sailesh Kotecha

Extremely preterm born adults from the pre-surfactant era have increased COPD risk
Tonje Bårdsen (Bergen, Norway), Merete Benestad, Ola Roksund, Hege Clemm, Thomas Halvorsen, Maria Vollset

Combined inhaled corticosteroids with long-acting beta-2 receptor agonists improve spirometry deficits in school-aged children with preterm lung disease
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Nia Goulden, Kylie Hart, Alison Jenkins, Gill Willetts, Louise Yendle, Iolo Doull, E Mark Williams, A John Henderson, Zoe Hoare, Sailesh Kotecha

Detecting reversible airway disease in those born preterm – which is the best test?
Tiffany Bradshaw (Perth, Australia), Shannon Simpson, Denby Evans, Naomi Hemy, Rhea Urs, Elizabeth Smith

Oscillometry in preterm-associated obstructive and non-obstructive lung disease
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Chris Course, Bence Radics, Zoltan Hantos, Peter Sly, Sailesh Kotecha
Specific respiratory conductance by forced oscillations reveals ventilation inhomogeneity in patients with cystic fibrosis
Sotirios Fouzas (Patras, Greece), Maria Gioulvanidou, Christos Kogias, Elsavet-Anna Chrysochoou, Aris Bertzouanis, Michael Anthracopoulos, John Tsanakas, Elpis Hatzigorou

Feasibility and Inter-Test Reproducibility of Lung Clearance Index in Children with Neuromuscular Disorders
Grace Pettigrew (Perth, Australia), Jenny Lam, Adelaide Withers, Andrew Wilson

Feasibility of respiratory muscle assessment tests in children with neuromuscular disease
Yama Latif (Cambridge, United Kingdom), Matthew Rose, Theofilos Polychronakis

Retrospective assessment of changes in bronchial obstruction severity interpretation in children according to new recommendations
Nicole Beydon (Paris, France), Jessica Assouline, Marc Koskas, Marie-Claude La Rocca, Fatma Lacin, Lucia Maingot-Sandu, Noria Medjahdi, Houda Saleh-Guillo

Retrospective assessment of changes in bronchial reversibility interpretation in children according to new recommendations
Nicole Beydon (Paris, France), Jessica Assouline, Marc Koskas, Marie-Claude La Rocca, Fatma Lacin, Lucia Maingot-Sandu, Noria Medjahdi, Houda Saleh-Guillo

Evaluation of lung volumes in Caucasian and African-Caribbean asthmatic children using GLI reference equations
Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France), Nicole Beydon

Late Breaking Abstract - Does infant lung function affect clinical management in children with cystic fibrosis?
Michele Arigliani (London, United Kingdom), Sidrah Chaudhry, Rossa Brugha, Ranjan Suri, Paul Aurora

Late Breaking Abstract - Impact of routine spirometry on clinical decisions and quality of life in children: an open-label randomised controlled trial
Wicharn Boonjindasup (Bangkok, Thailand), Julie Marchant, Margaret Mcelrea, Stephanie Yerkovich, Ian Masters, Ann Chang

Late Breaking Abstract - Effect of different stimulating waveforms on the derivation of oscillometry spectral parameters in asthmatic children
Pasquale Pio Pompilio (Milano (MI), Italy), Giuliana Ferrante, Alessandro Gobbi, Laura Venditto, Michele Piazza, Raffaele Dellacà, Giorgio Placientini

Late Breaking Abstract - Prediction of adolescent asthma outcomes using childhood lung function
Hans Jacob Koefoed (Groningen, Netherlands), Jenny Hallberg, Jolanda Boer, Ulrike Gehring, Roel Vermeulen, Inger Kull, Anna Bergström, Judith M. Vonk, Gerard H. Koppelman, Erik Melén

Late Breaking Abstract - Type 2-high airway inflammation in childhood asthma distinguishes a more severe phenotype
Frederikke Rosenvinge Skov (Gentofte, Denmark), Bo Chawes, Klaus Bønnelykke, Jakob Stokholm, Hans Bisgaard, Ann-Marie Malby Schoos

Respiratory functions in the follow-up of children with COVID-19 infection

Respiratory function and symptoms after acute COVID-19 infection in children and adolescents
Alicia Mitchell (Sydney, Australia), Brendan Kennedy, Brooke Bailey, Beth Weldon, Tatiana Diaz Rodriguez, Philip Britton, Hiran Selvadurai

Prospective respiratory follow-up of children with COVID-19, 6-months post-diagnosis
Marita Antoniadi (Athens, Greece), Dimitra-Irinna Vitoratou, Patra Koletsi, Despina-Zoe Mermiri, Athina Papadopoulou, Stavroula Kostariou
Evaluation of Pulmonary Function Tests of Patients Diagnosed with Multisystem Inflammatory Syndrome in Children (MIS-C)
Sahit Uytun (Ankara, Turkey), Murat Yasin Gençoğlu, Şüle Selin Akyan Soydas, Ece Ocak, Satı Özkan Tabakçığ, Gökçen Dilşah Tuğcu, Sanem Eryılmaz Polat, Tuğba Bedir Demirdağ, Güzinçin Cine

Clinical features of COVID-19 among children with recurrent respiratory infections in Ukraine
Tetiana Harashchenko (Kyiv, Ukraine), Tetiana Umanets, Volodymyr Lapshyn, Tetiana Kaminska, Yuriy Marushko, Victoria Khomenko, Yuriy Antipkin

Varying numbers of acute wheezing cases presenting to paediatric emergency during the COVID-19 pandemic
Kah Wee Teo (Glenfield, United Kingdom), Deepa Patel, Shilpa Sisodia, Damian Roland, Erol Gaillard, Julian Wei-Tze Tang

Pediatric admissions due to respiratory diseases during the COVID-19 pandemic
Dana Pe'er Moscovitch (Jerusalem, Israel), Diana Averbuch, Diana Wolf, Oded Breuer

RSV circulation during SARS-CoV-2 pandemic era: what happened in Italy
Luigi Matera (Rome, Italy), Raffaella Nenna, Antonella Frassanito, Maria Giulia Conti, Greta Di Mattia, Laura Petrarca, Enrica Mancino, Domenico Paolo La Regina, Gian Luigi Marsegilia, Amelia Licari, Salvatore Leonardi, Sara Manti, Luana Nosetti, Alessandra Pierangelì, Carolina Scagnolari, Margherita Di Jorgi, Alessia Solco, Chiara Moriano, Simone Crinò, Enea Bonci, Fabio Midulla

Features of an aseasonal 2021 RSV epidemic in the UK and Ireland: analysis of the first 10,000 patients
Steve Cunningham (Edinburgh (Scotland), United Kingdom), Damian Roland, Thomas Williams, Mark Lyttle, Robin Marlow, Pia Hardelid, Ian Sinha, Olivia Swann, Abigail Maxwell-Hodkinson

Prognostic value of vitamin D status in young children with viral-induced wheeze
Kateryna Hodiatska (Dnipro, Ukraine)

The clinical significance of thrombocytosis in children with viral respiratory tract infections
Sergei Elber-Dorozko (Jerusalem, Israel), Liya Kerem, Dana G. Wolf, Yaacov Berkun, Rebecca Brooks, Oded Breuer

Respiratory syncytial virus (RSV) infection in children with neuromuscular diseases (NMD): a literature review & a survey of Palivizumab prophylaxis in the UK
Andrew Willard (Leicester, United Kingdom), Trinity Axelson, Kamini Jain

Rapid mobilisation of parent champions empowers vulnerable families on bronchiolitis.
Alice Lee (Liverpool, United Kingdom), Hazel Blackham, Hibba Khalil, Kalina Mlodawska, Katie Parry, Katie Sefton, Nicola Lynch, Bernie Carter, Daniel Hawcutt, Ian Sinha

Clinical features, bronchoscopic findings and microbiology of children with chronic endobronchial suppuration in Greece
Maria Eleni Papakonstantinou (Athens, Greece), Konstantinos Douros, Alexandra Krontsi, Adamadia Savvopoulou, Olympia Sardeli, Dafni Moriki, Angeliki Galani

Efficacy of antibiotic eradication therapy of early Pseudomonas aeruginosa infection in children with primary ciliary dyskinesia
Dvir Gatt (Beer Sheva, Israel), Michelle Shaw, Wallace B Wee, Melinda Solomon, Sharon Dell, Felix Ratjen

The airway microbiota in siblings with primary ciliary dyskinesia: related factors and correlation with clinical characteristics
Dilber Ademhan Tural (Ankara, Turkey), Merve Kasikci, Ozlem Altay, Sanem Eryılmaz Polat, Beste Ozsezen, Mina Hizal, Birci Sunman, Halime Nayir Buyukshahin, Ismail Guzelkas, Tuğba Yuksel Dolgun, Nagehan Emiralioglu, Ebrul Yalcin, Deniz Dogru, Nural Kiper, Gulsen Hascelik, Kadir Serdar Diker, Ugur Ozcelik

Title: Bacterial profile by age in paediatric Non-CF Bronchiectasis (NCFB)
Kirstin Unger (Edinburgh, United Kingdom), Mohammad Dazham, Stefan Unger

Outcome of post-infectious bronchiolitis obliterans (PIBO) among children in Malaysia
Sze Chiang Lui (Kuala Lumpur, Malaysia), Che Zubahda Che Daud, N.Fafwati Faridatul Akmar Mohammad, Maria Kamal, Azizah Musa, Nor Khailawati Sharibudin, Hazfiah Zainuddin, Farizah Mohd Hairi, Eu Ann Gan, Pavithira Devi Kailasam, Eunice Chin Nien Ng, Cheng Guang Gan, Alifah Alias, Mohd Shahrulfahmi Abu Osman, Hasliza Razak, Siti Aishah Abd Rahim, Wen Ying Ng, Asial Kassim

Evaluation of machine learning to detect adventitious lung sounds using digital auscultation to aid childhood pneumonia diagnosis
Salahuddin Ahmed (Dhaka, Bangladesh), Harish Nair, Steven Cunningham, Abdullah Baqui, Eric Mccollum

Discriminating between paediatric bacterial and viral lower respiratory tract infection (LRTI) to guide antibiotic decision making: a systematic review
Jonathan Twynam-Perkins (Edinburgh, United Kingdom), Bohee Lee, Steve Cunningham, David Dockrell
### Thematic poster: Surgery for mediastinal and benign thoracic diseases

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

**Method(s):** Imaging, Surgery, Pulmonary function testing, Public health, Cell and molecular biology, Epidemiology

**Chairs:** Stefano Elia (Roma (RM), Italy), Kalliopi Athanassiadi (Athens, Greece)

#### Session 229 08:30 - 09:30

**PA1776**

**Dyspnoea improves following composite repair of giant hiatus hernia**

Gregory Falk (Lindfield, Australia), Oleksandr Khoma, Ngan Lok Joshua Wong, Miho Mugino, Maite Jeanne Khoma, Hans Van Der Wall

**PA1777**

**Reflux cough and LPR: The utility of fundoplication**

Gl Falk (Lindfield, Australia), Sashidhar Yeluri, David Mitchell, Hans Van Der Wall

**PA1778**

**Impact of diaphragmatic surgery on spirometric parameters**

YOSR BEN ATTIG (Tunis, Tunisia), Emna Ben Jemia, Rime Essid, Kaouter Ben Amara, Mohamed Sadok Boudaya

**PA1779**

**Contribution of ultrasound in the postoperative evaluation of the diaphragmatic function after surgery for intrathoracic occurrence of hepatic hydatid cyst**

YOSR BEN ATTIG (Tunis, Tunisia), Emna Ben Jemia, Kaouter Ben Amara, Siwar Hamdi, Mohamed Sadok Boudaya

**PA1780**

**Pulmonary decortication: indications and results**

Abdessalem Hentati (Sfax, Tunisia), Mouna Nasri, Walid Abid, Ahmed Ben Ayed, Zied Chaari, Imed Frikha

**PA1781**

**One-stop-shop diagnosis and surgical therapy for small nodules of early stage lung cancer in a hybrid theatre**

Claudio Caviezel (Zürich, Switzerland), Konstantinos Kostopanagiotou, Gilbert Puppe, Raphael Werner, Isabelle Opitz

**PA1782**

**Thoracic approach of concomitant lung and liver hydatid cysts**

Sarra Zairi (Tunis, Tunisia), Wissem Jendli, Hela Kamoun, Mahdi Abdennadher, Hazem Zribi, Monia Attia, Taher Mestiri, Saoussen Hantous, Adel Marghli

**PA1783**

**Conservative Surgical Management in Giant Lung Hydatid Cyst**

amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, WIFEK SAIDANI, Mariem Hadj Dahmen, Hazem Zribi, Imen Bouacida, Amina Abdelkebir, Sonia Ouerghi, Sarra Zairi, Adel Marghli

**PA1784**

**Intrathoracic hemangioma: Report of 8 cases**

amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, Nouha Boubaker, Hazem Zribi, Sarra Zairi, Amina Abdelkabir, Imen Bouacida, Mouna Mlika, Sonia Ouerghi, Adel Marghli

**PA1785**

**Primary Mediastinal Germ Cell Tumors in Children and Adolescents: a report of 6 cases**

amina abdelkbir (ben arous, Tunisia), Kaouter Ben Amara, Mahdi Abdennadher, Amina Abdelkebir, Hazem Zribi, Aida Kaddour Ayadi, Soni Ouerghi, Sarra Zairi, Adel Marghli

**PA1786**

**Primary muscular hydatid cyst of the anterior chest wall: the pectoralis major muscle, four cases**

amina abdelkbir (ben arous, Tunisia), Asma Saad, Imen Bouacida, Mahdi Abdennadher, Chaker Jaber, Amira Dridi, Hazem Zribi, Adel Marghli

**PA1787**

**Management of pulmonary abscesses in a surgical setting**

Sabrine Maddeh (Bizerte, Tunisia), Bechir Ben Radhia, Chrif Taieb, Kortas Chokri, Sofiane Jerbi

**PA1788**

**One-stage surgery of bilateral pulmonary hydatidosis**

amina abdelkbir (ben arous, Tunisia), Nouha Boubaker, Mahdi Abdennadher, Amina Abdelkabir, Hazem Zribi, Henda Neji, Faouzi Mezni, Sonia Ouerghi, Sarra Zairi, Adel Marghli

**PA1789**

**Post-CABG pleural effusions: Does previous asbestos exposure increase the risk?**

Hugh Welch (Bristol, United Kingdom), Jessica Harris, Maria Pufulete, Arnauld Dimagli, Umberto Benedetto, Nick Maskell

**PA1790**

**Hemoptosis revealing Pulmonary arteriovenous malformation: A rare indication of surgical treatment**

amina abdelkbir (ben arous, Tunisia), WIFEK SAIDANI, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkabir, Sarra Zairi, Amira Dridi, Adel Marghli

**PA1791**

**Minimally invasive surgery for mediastinal tumors**

Aymen Labidi (tunis, Tunisia), Amina Abdelkabir, Mehdi Abdennadher, Hazem Zribi, Sarra Zairi, Merghli Adel
Primary chest wall Ewing sarcoma: peculiarities of management
Sarra Zairi (Tunis, Tunisia), Emma Brahem, Hela Kamoun, Mehdi Abdennadher, Hazem Zribi, Monia Attia, Taher Mestiri, Saoussen Hantous, Faouzi El Mezni, Adel Marghli

Neurogenic tumors of the chest wall: a report of 30 cases
amina abdelkbir (ben arous, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Hazem Zribi, Sarra Zairi, Adel Marghli

Surgery of malignant neurogenic tumors of the mediastinum: a series of 13 cases
amina abdelkbir (ben arous, Tunisia), Asma Saad, Imen Bouacida, Mariam Hadj Dahmen, Chaker Jaber, Sonia Ouerghi, Hazem Zribi, Adel Marghli

The role of alveolar macrophages and smoking in the development of postoperative pulmonary complications after lung cancer surgery.
Sebastian Lugg (Birmingham (West Midlands), United Kingdom), Rahul Mahida, Lauren Davis, Dhruv Parekh, Babu Naidu, Aaron Scott, David Thickett

Thematic poster: Respiratory physiotherapy: technology, e-health and (tele)rehabilitation
Disease(s): Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s): Pulmonary rehabilitation, General respiratory patient care, Public health, Pulmonary function testing
Chairs: Michele Vitacca (Gusassago (BS), Italy), Jana De Brandt (Umeå, Sweden)

The effect of telerehabilitation-based chest physiotherapy on anxiety level and the perception of pain, dyspnea and fatigue in patients undergoing lung surgery.
Esra Pehlivan (İstanbul, Turkey), Ayça Evkaya Acar, Yaman Khoraki, Sibel Gayretli Atan, Burcu Kılç, Akif Turna

Preferences for an eHealth tool to support physical activity and exercise training in COPD
Pernilla Sönnerfors (Stockholm, Sweden), Kirsti Skavberg Roaldsen, Sara Lundell, Annika Toots, Karin Wadell, Alexandra Halvarsson

Technological features of smartphone apps for physical activity promotion in patients with COPD: A systematic review
Joana Cruz (Leiria, Portugal), João Silva, Nádia Hipólito, Pedro Machado, Sofia Flora

Effectiveness of a remote pulmonary rehabilitation program for patients with Chronic Obstructive Pulmonary Disease: A case series.
Shaemen Stallwood (London, United Kingdom), Caitlin Smyth, John R Hurst, Heidi Ridsdale

Experiences of using an electronic health (eHealth)-tool among healthcare professionals involved in COPD management - a qualitative analysis.
Andre Nyberg (Umeå, Sweden), Anna Sondell, Sara Lundell, Sarah Marklund, Malin Tistad, Karin Wadell

End-users' perspectives of an eHealth platform to promote physical activity in COPD: a qualitative study
Nádia Hipólito (LEIRIA, Portugal), Sofia Flora, Marcelo Brites-Pereira, Cândida G. Silva, Jessica Gordo, Nuno Morais, José Ribeiro, Fernando Silva, Chris Burtin, Dina Brooks, Alda Marques, Joana Cruz

Is pulmonary tele rehabilitation effective and safe for people with respiratory conditions?
Joshua Bishop (Balmain, Australia), Lissa Spencer, Amanda Meanulty, Wendy Denniss, Jennifer Alison

Pulmonary rehabilitation including interactive 3D visualization technique, in COPD - a randomized controlled study
Ulrika Einarsson (Huddinge, Sweden), Pernilla Sönnerfors, Anna-Karin Nordlin, Gun Faager

Curating audio-visual self-management digital resources for people with Chronic Obstructive Pulmonary Disease (COPD): A novel process report.
Kirsti Loughran (Middlesbrough, United Kingdom), Sian Williams, Katya Jouravleva, Philip Mordue, Isabel Saraiva, Matthieu Bremond, Clare Cook, Mark Orme, Deborah Turnbull, Nathaniel Skidmore

Digital pulmonary rehabilitation (PR)
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, David Barber, Simon Taylor, Rosemary Hughes, Michelle Coleiro

Physical therapy follow-up before and during COVID-19 pandemic of patients with amyotrophic lateral sclerosis
Karen Pondofe (Natal, Brazil), Ozana De Fatima Costa Brito, Rayane Grayce Da Silva Vieira, Esther Beatriz Camara Da Silva, Lariza Maria Da Costa, Tatiana Ribeiro, Mario Emilio Teixeira Dourado Junior, Antonio Jose Sarmento, Guilherme Fregonezi, Vanessa Resqueti
PA1807  **iLiFE-Lifestyle Integrated Functional Exercise for people with interstitial lung disease: the experience of patients**
Cátia Paixão (Aveiro, Portugal), Pedro Ferreira, M Aurora Mendes, Dina Brooks, Alda Marques

PA1808  **Successful provision of a specialised Interstitial Lung Diseases (ILD) pulmonary rehabilitation program during COVID-19 using recorded ILD educational videos developed by allied health professionals**
Hana Alsomali (Newcastle upon Tyne, United Kingdom), Francesca Chambers, Evelyn Palmer, Claire Donaldson, Lyndsey Langlands, Isobel Bowe, Anne-Marie Bourke, Chris Ward, Ian Forrest

PA1809  **Impact of urban circuits in increasing exercise capacity in COPD**
Santiago Larrateguy (Paraná, Argentina), Guillermo Mazzucco, Elena Gimeno-Santos, Rodrigo Torres-Castro, Nicolas Decarlo

PA1810  **The Effect of Pulmonary Rehabilitation on Exercise Capacity and Quality of Life in Patients with SCLC Receiving Chemotherapy**
Seda Saka (İstanbul, Turkey), Merve Hasgül, Nur Tunali, Süleyman Forkan Hangün, Salih Emri

PA1811  **Expert survey-based experiences on performing and adjusting endurance exercise training in patients with chronic respiratory disease**
Rainer Gloeckl (Schoenau am Koenigssee, Germany), Ralf Zwick, Ulrich Fürlinger, Inga Jarosch, Tessa Schneebberger, Daniela Leitil, Rembert Kocsulla, Ioannis Vogiatzis, Martijn A. Spruit

PA1812  **REPERCUSSION OF PHYSIOTHERAPY ORIENTATION ON FUNCTIONAL CAPACITY AND QUALITY OF LIFE AFTER CORONARY BYPASS GRAFTING ARTERY**
Andre Luiz Cordeiro (Feira De Santana (BA), Brazil), Dalyla Gomes, Lucas Soares, Hayssa Mascarenhas, André Guimarães

PA1813  **Reliability of computerised adventitious respiratory sounds in people with stable bronchiectasis**
Beatriz Herrero Cortina (Zaragoza, Spain), Marina Francin-Gallego, Juan Antonio Saez-Perez, Marta San Miguel-Pagola, Cristina Jácome

PA1814  **Late Breaking Abstract - InspiAir, the mHealth App to monitor asthma symptoms for people with asthma**
Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Leandro Velloso, Regina Carvalho-Pinto, Renata Yasiro, Carlos Farfan, Giselle Jensen, Lucia Filgueiras

### Thematic poster: Basic science of respiratory infection

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

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

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom), Gernot G.U. Rohde (Frankfurt am Main, Germany)

**PA1815**  **Non-typeable Haemophilus influenzae activates respiratory epithelial cell innate immune responses independently of intracellular internalisation**
Timothy Hinks (Oxford, United Kingdom), Mary Brown, Sophie Morgan, Gillian Donachie, Ian Pavord, Carolina Arancibia

**PA1816**  **Acute lung inflammation in mice by inhaled aerosolized LPS: effects of various forms of human alpha1-antitrypsin**
Sabine Wrenger (Hannover, Germany), Kokilavani Sivaraman, Dirk Schaudien, Christina Hesse, Katherina Sewald, Tobias Welte, Sabina Janciakusienie

**PA1817**  **Mucosal administration of anti-bacterial antibody (Ab) provides long-term cross-protection against Pseudomonas aeruginosa respiratory infection**
Thomas Secher (Tours, France), Aubin Pitiot, Marion Ferreira, Christelle Parent, Chloé Boissieu, Mélanie Cortes, Laura Bouvart, Nicolas Aubrey, Christophe Paget, Nathalie Heuzé-Vourc'H

**PA1818**  **Lack of S100A9 aggravates pneumococcal pneumonia in mice**
Lena Ostermann (Hannover, Germany), Konstantina Katsarou, Regina Maus, Martin Christmann, Konstantin Neumann, Korbinian Brand, Benjamin Seeliger, Frank Bühling, Dorothee Viemann, Tobias Welte, Ulrich A. Maus

**PA1819**  **The airway metagenome in Pseudomonas aeruginosa associated severe asthma**
Fransiskus Xaverius Ivan (Singapore, Singapore), Pei Yee Tiew*, Kai Xian Thng, Tavleen Kaur Jaggi, Esther Pang Peewhee, Ong Thun How, John Arputhan Abisegaran, Mariko Siyue Koh, Sanjay H. Chotirmall

**PA1820**  **Triple combinations of ferulic acid, quercetin and glycyrrhizic acid inhibit influenza virus H5N1 hemagglutinin-induced acute lung injury by targeting Janus tyrosine kinase 3 and cAMP-dependent CFTR channel**
Cao Ke (Jinzhou, China), Wang Yansheng, Sun Qiang, Xu Jun
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<td><strong>PA1821</strong> Histone deacetylase-6 (HDAC6) promotes protective responses during murine influenza A virus (IAV) infection</td>
<td>Katie Daly (Booker Bay, Australia), Alan Hsu, Kristy Nichol, Jay Horvat, Jemma Mayall, Phil Hansbro, Peter Wark</td>
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<td><strong>PA1822</strong> Effect of novel LasB inhibitor ANT3273 on activation of IL-1β in macrophage and mouse Pseudomonas aeruginosa infection models</td>
<td>Martin Everett (Labege, France), Nicolas Sprynski, Larock Doris, Larock Christopher, Magdalena Zalacain</td>
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<td><strong>PA1823</strong> IL-4 levels in sputum correlate with increased mucus production and ciliary dysfunction</td>
<td>Erin Cant (Dundee, United Kingdom), Mathieu Bottier, Morven Shuttleworth, Farheen Daudvohra, Ross J Urquhart, Amy Gilmour, Megan L Crichton, Diane Cassidy, Thomas Burgoyne, Claire Hogg, Jeffrey T J Huang, James D Chalmers, Amelia Shoemark</td>
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<td><strong>PA1824</strong> The influence of the storage medium on respiratory ciliary beating</td>
<td>Noemie Bricmont (Liège, Belgium), Romane Bonhiver, Lionel Benchimol, Anne-Lise Poirier, Philippe Lefèbvre, Renaud Louis, Marie-Christine Seghayeh, Céline Kempeneers</td>
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<td><strong>PA1825</strong> Crucial role of iron metabolism in determining outcomes of influenza A virus infection and disease</td>
<td>Jemma Mayall (Newcastle, Australia), Amber Pillar, Katie Daly, Alexandra Brown, Ama-Tawiah Essilfie, Henry Gomez, Richard Kim, Chantal Donovan, Greg Anderson, David Frazer, Elizabeth Milward, Philip Hansbro, David Reid, Alan Hsu, Peter Wark, Jay Horvat</td>
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<td><strong>PA1826</strong> Clinically relevant administration of naive and activated mesenchymal stromal cells for the treatment of bacterial induced pulmonary sepsis</td>
<td>Declan Byrnes (Galway (County Galway), Ireland), Claire Masterson, Hector Gonzalez, Sean McCarthy, Daniel O'Toole, John Laffey</td>
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<td><strong>PA1827</strong> LSC - 2022 - Single cell transcriptomic dissection of virus induced immunopathology in interferon gamma receptor null mice</td>
<td>Lin Yang (Oberschleißheim, Germany), Ilias Angelidis, Lukas Heumos, Mesha Ansari, Shuhong Zhou, Christoph Mayr, Lukas Simon, Maximilian Strunz, Fabian Theis, Heiko Adler, Herbert Schiller</td>
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<td><strong>PA1828</strong> LSC - 2022 - Identification of a host antiviral and anti-inflammatory metabolite that protects against influenza virus s-drosis morbidity and mortality</td>
<td>Adeline Cezard (Tours, France), Déborah Brea-Diakite, Virginie Vasseur, Loïc Gonzales, Ronan Le Goffic, Bruno Da Costa, Delphine Fouquenet, Thomas Baranek, Christophe Paget, Antoine Guillon, Mustapha Si-Tahar</td>
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<td><strong>PA1829</strong> Delayed immunological reaction of Human Microvascular Lung Endothelium in response to Human Coronavirus 229E infection.</td>
<td>Robert Szewczyk (Łódź, Poland), Mateusz Gawrysiak, Adrian Gajewski, Maciej Chałupiński</td>
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<td><strong>PA1830</strong> Late Breaking Abstract - Nebulized mesenchymal stem cells derived conditioned media retains the capacity to mitigate lung injury in vivo.</td>
<td>Hector Gonzalez Esteban (Galway, Ireland), Sean McCarthy, Claire Masterson, Declan Byrnes, Ronan Macloughlin, John Laffey, Daniel O'Toole</td>
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<td><strong>PA1831</strong> Late Breaking Abstract - Single cell transcriptomic dissection of virus induced immunopathology in interferon gamma receptor null mice</td>
<td>Lin Yang (Oberschleißheim, Germany), Lukas Heumos, Ilias Angelidis, Mesha Ansari, Shuhong Zhou, Christoph H. Mayer, Lukas M. Simon, Maximilian Strunz, Fabian J. Theis, Heiko Adler, Herbert Schiller</td>
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<td><strong>PA1832</strong> Molecular characterisation of COPD exacerbations</td>
<td>Holly R. Keir (Dundee (Angus), United Kingdom), Hollian Richardson, Abirami Veluchamy, Daniela Alferes De Lima, Amy Gilmour, Chandani Hennayake, Alison Dicker, Megan Crichton, James D. Chalmers</td>
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**TP-19 in thematic poster area**

**Session 232** 08:30 - 09:30

**Thematic poster: COVID prognosis**

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

**Method(s):** Epidemiology, Respiratory intensive care, General respiratory patient care, Cell and molecular biology, Public health

**Chairs:** Oriol Sibila Vidal (Barcelona, Spain), Eric Mortensen (Simsbury, United States)
| PA1835 | Identification and validation of prognostic models of critical COVID-19 at hospital admission | Gabriela Cárdenas-Fuentes (Barcelona, Spain), Magda Bosch De Basea, Inés Cobo, Mario Ceresa, Ernest Famada, Elena Gimeno-Santos, Laura Delgado-Ortiz, Rosa Faner, María Molina, Alvar Agustí, Xavier Muñoz, Oriol Sibila, Joaquim Gea, Judith García-Aymerich |
| PA1836 | Relevance of IFNAR2 variants in the mortality of patients with severe COVID-19 | Ingrid Frícke-Galindo (Mexico City, Mexico), Alfonso Martínez-Morales, Gloria Pérez-Rubio, Ivette Buendía-Roldán, Leslie Chávez-Gálán, Rafael De Jesus Hernández-Zenteno, Iris Paola Guzmán-Guzmán, Ramcés Falfán-Valencia |
| PA1837 | MORTALITY PREDICTORS IN COVID-19 PNEUMONIA: RESULTS OF LARGE ROC-ANALYSIS | Yuliia Huba (Dnipropetrovsk, Ukraine), Ksenia Bieloshlutseva, Lyudmyla Konopkina, Tetyana Pertseva |
| PA1838 | Hospital admissions in patients with COPD before and during the COVID-19 pandemic | Niklas Andreen (Göteborg, Sweden), Johan Westin, Lowie Vanfleteren |
| PA1839 | Prognostic factors in hospitalized community-acquired pneumonia | Sabrine Majdoub Fehri (Nabeul, Tunisia), Rahma Sellami, Imen Ketata, Wafa Madi, Racem Ammar, Hamida Kwass |
| PA1840 | Mortality of hospitalized COVID-19 patients that were residents of nursing homes | Galatea Verykokou (Athens, Greece), Vassiliki Apollonatou, Andriana Papaioannou, Anastasios Vogiatzoglou, Konstantinos Roukas, Diamantis Chlors, Christos Kyriakopoulos, Christos Chronis, Christina Aggelopoulos, Deniz Gundogdu, Pinelopi Schouni, Dimitra Kavathia, Effrosyni Manalit, Spyros Papiris, George Tsoukalas, Konstantinos Kostikas, Evangelia Fouka, Dimitrios Bountas, Stelios Loukides |
| PA1841 | Risk factors for long term hospitalization in patients with COVID19 | Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen Ketata, Wafa Madi, Rahma Sellami, Hamida Kwass |
| PA1842 | IMPACT SHORT-LONG TERM EXPOSURE OF AIR POLLUTION ON COVID-19 OUTCOME. | Elien De Waele (Sint-Niklaas, Belgium), Stijn Vos, Dries Martens, Esmée Bijnen, Geert Mistiaen, Geert Dewispelaere, Tim Nawrot, Pieter Goeminne |
| PA1843 | what relationship between eosinophilia and covid19 prognosis? | Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen Ketata, Wafa Madi, Rahma Sellami, Hamida Kwass |
| PA1845 | Vitamin D deficiency is not related to adverse COVID-19 outcomes | Balamugesh Thangakumam (Vellore (Tamil Nadu), India), Barney Isaac, Flavita John, Rajasekar Sekar, Prasanna Samuel, Deepa Shankar, Devasahayam J Christopher |
| PA1847 | COVID-19 in Ventilated Elderly Patients: Data from 52 Intensive Care Units in Spain | Catia Cillóniz Campos (Barcelona, Spain), Anna Motos, Albert Gabarrus, Juan Manuel Pericas, Laia Fernandez, Tatiana Guadalupe Castañeda, Andrea Palomeque, Adrian Cecato, Antoni Torres |
| PA1848 | Endocrine, metabolic and hepatic dysfunction in patients with COVID-19 pneumonia with severe and critically ill status | Ahmed Elesdoudy (Menouf (el menoufia), Egypt) |
| PA1849 | Obesity, overweight and COVID19 pneumonia in a real life clinical setting; Does size really matter? | ANTONIS XIPOLITOS (ATHENS, Greece), Elli Keramida, Elena Bellou, Thodoris Daskalos, Ioannis Karampínis, Panagiotis Demertzis, Georgia Hardavella |
| PA1850 | Retrospective evaluation of high dose systemic steroids therapy on mortality of hospitalized COVID pneumonia patients | Vratislav Sedláčk (Hradec Králové 9, Czech Republic), Vladimir Kobližek, Michal Kopecký, Ivo Jarolimek, Martin Sedláček |
| PA1851 | Predictive factors of mortality in hospitalized patients with 2019 novel coronavirus pneumonia. | Nouha Boubaker (Nabeul, Tunisia), Sabrine Louhaichi, Besma Hamdi, Jamel Ammar, Agnès Hamzaoui |
Back to basics: complete blood count parameters and the neutrophil-to-lymphocyte ratio as prognostic factors in hospitalized patients with COVID-19
Marija Topalovic (Nis, Republic of Serbia), Borislav Bozanic, Tatjana Pejacic, Aleksandra Ignjatovic, Vuk Pejacic, Desa Nastastijevic Borovac, Marko Bjelakovic, Marija Marinkovic

Is smoking a risk factor for severe outcomes in COVID-19?
Souha Abdenneji (Tunis, Tunisia), Wafa Fekih, Iheb Ben Krayen, Jamel El Ghoul

Prognosis for ICU Admission in hospitalized patients with Coronavirus diseases -19 (COVID-19)
Adamadia Liapikou (Athens, Greece), Nikos Tsonlis, Eleni Dionelli, Alexandra Kote, Aggeliki Sotiropoulou, Panagiotis Peristeris, Ioanna Augerinou, Ioannis Dimitroulis

Thematic poster: Methods and innovation in pulmonary rehabilitation

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

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

**Chairs:** Ipek Çaylı Candemir (Ankara, Turkey), Matthew Armstrong (Bournemouth, United Kingdom)

PA1855 Contribution of muscular retraining in a post-COVID-19 exercise rehabilitation program
Khadija Ayed (Nabeul, Tunisia), Islam Mejri, Rihab Alouane, Zied Moatemri

PA1856 Modified six-minutes walking test in children with medical complexity and chronic lung disease.
Gregory Villarroel Silva (Santiago, Chile), Paula Vera Tapia, Barabara Moya Torres, Maria Jose Miranda, Gonzalo Moscoso Altamira, Macarena Faúndez Silva, Ignacio Oyarzun Aguirre

PA1857 Longitudinal change in Ultrasound derived Rectus Femoris cross sectional area (RFCSA) in patients with COPD
Timothy Jenkins (London, United Kingdom), Suhani Patel, Jane Canavan, Samantha Kon, Sarah Jones, Ruth Barker, Hannah Littlemore, Jennifer Harvey, Claire Nolan, William Man

PA1858 The minimal important difference (MID) of the five-repetition sit to stand test (5STS) in IPF
Puja Trivedi (Middlesex, United Kingdom), Oliver Polgar, Suhani Patel, Ruth Barker, William Man, Claire Nolan

PA1860 Subjective experience of eccentric and one-legged cycling in COPD
Thomas Ward (Leicester, United Kingdom), Martin Lindley, Charlotte Bolton, Rachael Evans, Michael Steiner

PA1861 Non-invasive ventilation (NIV) during exercise training in people with COPD and chronic hypercapnic respiratory failure (CHRF) - a randomized controlled trial
Tessa Schneeberger (Schönaum Königssee, Germany), Antje Stegemann, Daniela Leitl, Inga Jarosch, Rainer Glocckl, Maximilian Leidinger, Wolfgang Hitzi, Clancy Dennis, Klaus Kenn, Andreas Rembert Koczulla

PA1862 Impact of cognitive capacity on physical performance in chronic obstructive pulmonary disease (COPD) patients: a scoping review
Peter Kassam (Woodbridge, Canada), Eli Maria Pazzianotto-Forti, Umi Matsumura, Antenor Rodrigues, Dmitry Rozenberg, W Darlene Reid

PA1863 Greater walking distance during acute intermittent, compared to the same ground speed, endurance shuttle protocol in COPD: an interim analysis
Charikleia Alexiou (Newcastle Upon Tyne, United Kingdom), Dimitrios Megaritis, Emily Hume, Francesca Chambers, Lynsey Wakenshaw, Laura Meneille, Carlos Echevarria, Ioannis Vogiatzis

PA1864 Experiences of singing for people with chronic respiratory diseases: qualitative meta-synthesis
Natasha Smallwood (Melbourne (VIC), Australia), Lena Ly, Jennifer Philip, Peter Hudson

PA1865 Respiratory Muscle Training Can Improve Cognitive, Lung Function, and Diaphragmatic Performance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial
Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng

PA1866 Effects of inspiratory muscle training in patients with chronic obstructive pulmonary disease after stratification by the degree of static hyperinflation
Maurice J.H. Sillen (Horn, Netherlands), Anouk W. Vaes, Miriam T.J. Groenen, Frits M.E. Franssen, Martijn A. Spruit
| PA1867 | Exploring the impact of comorbidities in individuals after a Covid hospital admission or community infection in those referred to a rehabilitation programme | Nikki Gardiner (Leicester, United Kingdom), Emma Chaplin, Sarah Ward, Enya Daynes, Molly Baldwin, Sally Singh |
| PA1868 | Validation of the one minute sit to stand test (1MSTS) for identification of exertional oxygen desaturation in chronic respiratory disease | Jennifer Harvey (Uxbridge, United Kingdom), Suhani Patel, Hannah Littlemore, Timothy Jenkins, Claire Nolan, William Man |
| PA1869 | Effect of hybrid rehabilitation on exercise tolerance in patients with long COVID-19 syndrome: an interim analysis | ANGELOS VONTETSIANOS (ATHENS, Greece), Nikolaos Chynkiamis, Christina Anagnostopoulou, Evaggelia Koukaki, Eleni Stagaki, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris |
| PA1870 | Impact of nasal high-flow on exercise capacity and dyspnea in severe/very severe COPD. | Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Pauline Smoundack, Helena Brunel, Yann Combret, Guillaume Prieur, Clément Médrina, Fairuz Boujibar, Jean-François Muir, Antoine Cuvelier, Maxime Patout |
| PA1871 | Benefits of Whole Body Vibration Training in Patients with COPD Exacerbations | Fanying Yu (Changchun, China), Hongjing Lin, Qinglin Li, Xiuyun Jia, Ting Yu, Jiahui Ma, Zeyu Qin, Wenlong Liu |
| PA1872 | The obstacles to expectorating sputum in cystic fibrosis (CF) patients | Ivana Arnaudova Danevska (Skopje, North Macedonia), Tatjana Jakjovska, Ani Vidoevska, Sonja Momchilovikj, Elena Gjinovska Tasevska, Gorica Popova, Dimitar Arnaudov, Katerina Boshkovska |
| PA1874 | DECANNULATION AFTER COVID-19 ARDS: ARE THERE DIFFERENCES BETWEEN REHABILITATION AND RESPIRATORY WARDS? | Cinzia Lastoria (, Italy), Francesca Cemmi, Abramo Bazza, Manuela Bergonzi, Roberta Marra, Federica Fioretti, Matteo Vigna, Chiara Mele, Annalisa Carlucci |

**TP-20 in thematic poster area**

**Session 234**  
**08:30 - 09:30**

**Theme: Fungal infections and other relevant COVID-19 findings**

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

**Method(s):** General respiratory patient care, Respiratory intensive care, Epidemiology, Cell and molecular biology, Public health

**Chairs:** Anand Shah (London, United Kingdom), Sanjay Haresh Chotirmall (Singapore, Singapore)

| PA1875 | Aspergillus co-infection in critically ill COVID-19 patients | Gordana Pavliša (Zagreb, Croatia), Ivana Majdandzic, Andrea Vukic Dugac, Mateja Jankovic Makek, Lidija Ljubicic, Miroslav Samarzija |
| PA1876 | Effect of omalizumab on glucocorticoid use, lung function and asthma control in the treatment of allergic bronchopulmonary aspergillosis: a systematic review and meta-analysis | Jo Douglass (Parkville, Australia), Meiling Jin, J Stuart Elborn, Ritesh Agarwal, William J Calhoun, Xavier Jaumont, Slawomir Lazarewicz, Meng Yan |
| PA1877 | Anti-IgE therapy for management of recurrent ABPA exacerbations: successful outcome in 8 patients | Manu Chopra (Delhi, India), Meenakshi Chopra, Shafin Babu Ps |
| PA1878 | Aspergillus sensitization as a treatable trait in COPD | Pei Yee Tiew (Singapore, Singapore), Jayanth Kumar Narayana, Marilynn Swee Li Quek, Yan Ying Ang, Fanny Wai San Ko, Mau Ern Poh, Tavleen Kaur Jagg, Huising Xu, Kai Xian Thng, Mariko Siyue Koh, Augustine Tee, John Arputhan Abisheganaden, Krasimira Tsaneva-Atanasova, Fook Tim Chew, Sanjay Haresh Chotirmall |
| PA1879 | Azole resistance screening in Aspergillus species isolated from patients with COVID-associated pulmonary aspergillosis from Pakistan | Kauser Jabeen (Karachi, Pakistan), Sadaf Zaka, Joveria Farooqi, Syed Faheem Naqvi |
| PA1880 | Critical COVID-19 Associated Pulmonary Mucormycosis (CAPM): The underreported life-threatening spectrum of the Mucormycosis epidemic | Sameer Bansal (Navi Mumbai (Maharashtra), India), Hariprasad Kalpakam, Parikshit Thakare, Ravindra Mehta |
| PA1881 | Invasive fungal infections in COVID-19 patients from Pakistan | Kauser Jabeen (Karachi, Pakistan), Nosheen Nasir, Joveria Farooqi, Syed Ahsan Ali, Syed Faisal Mahmood, Najia Ghanchi, Muhammad Irfan, Rumina Hasan, Afia Zafar |
**PA1882**  
Fungal infections in the ICU during the COVID-19 era  
Evangelia Koukaki (SALAMINA, Greece), Nikoleta Rovina, Kimon Tzannis, Sevasti Ampelioti, Vasiliki Romanou, Antonia Koutsoukou, Georgios Dimopoulos

**PA1883**  
Efficacy of LD Bio Aspergillus ICT Lateral flow assay for serodiagnosis of chronic pulmonary aspergillosis  
Animesh Ray (Kolkata (West Bengal), India), Mohit Choudhury, Prayas Sethi, Ved Prakash Meena, Gagandeeep Singh, Immaculata Xess, Sanjeev Sinha, Naveet Wig, Sunil Kumar Kabra

**PA1884**  
Comparison of clinical features, risk factors and outcome of invasive pulmonary aspergillosis in critically ill COVID-19, influenza and community acquired pneumonia patients  
Muhammad Irfan (Karachi (Sindh), Pakistan), Syed Ahsan Ali, Kausar Jabeen, Joveria Farooqi, Safia Awan

**PA1885**  
Absence of invasive mucormycosis in ventilated critically-ill COVID-19 patients: an autopsy study in a tertiary care university hospital  
Job Schippers (Amsterdam, Netherlands), Paul Verweij, Leo Heunks, Karin Van Dijk

**PA1886**  
Late Breaking Abstract - Persistence of inflammatory and vascular damage mediators 5 months after acute COVID-19  
Nayia Petousi (Oxford (Oxfordshire), United Kingdom), James Melhorn, Asma Alamoudi, Mark Cassar, Anastasia Fries, Emily Fraser, Alexander Mentzer, Betty Raman, Nick Talbot

**PA1887**  
Late Breaking Abstract - Long-term follow-up of SARS-CoV-2 IgM and IgG production in the patients with COVID-19 in Japan  
Tomoiro Matsunaga (Tokyo, Japan), Shin Ohta, Fumihiro Yamaguchi, Kosuke Suzuki, Akihiko Tanaka, Issei Tokimatsu, Hironori Sagara

**PA1888**  
Late Breaking Abstract - THE ROLE OF LABACS IN LONG COVID-19 PATIENTS IN PRINGSEWU, INDONESIA  
Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Pralia Winda Sari, Jordy Oktabiannobel, Diyan Ekwatati, Anse Diana Valentiene Messah, Adityo Wibowo, Ibnu Darmajati

**PA1889**  
Late Breaking Abstract - Clinical performance evaluation of an anti-SARS-CoV-2 IgG enzyme-linked immunosorbent assay  
Timothy Ferguson (Belfast (Belfast), United Kingdom), Julie Moore, Louise Robertson, Elisha Cain, Joanne Goodman, Caroline Colley, Maria Orr, Tara Moore

**PA1890**  
Late Breaking Abstract - Hospital-onset COVID-19 and antivirals  
Ghulam Haider Khan (Westmalling, United Kingdom), Milad Jeilani, Shelby Bryant, Charlotte Butler, Eftichia Iossifidis, Jaweriah Shoab, Matthew Szeto

**PA1891**  
Late Breaking Abstract - The economic burden of pertussis among adults aged above 50 years, in England: post-hoc analyses of a retrospective database study in England  
Nicolas Jamet (Wavre, Belgium), Emmanuel Aris, J. Romario F. De Melo, Anna Ramond, Jason Simeone, Valérie Berlaimont

**PA1892**  
Late Breaking Abstract - Post-acute sequelae of SARS-CoV-2 among previously hospitalised individuals with COVID-19: a systematic literature review and meta-analysis>  
Rikisha Shah Gupta (LONDON, United Kingdom), J. Daniel Kelly, Tristan Curteis, Aaditya Rawal, Molly Munro, Rikisha Shah-Gupta, Aprilre Espinuenda, Linda Chen, Mazin Abdelghany, Daniel A. Sweeney, Jennifer K. Quint

**PA1893**  
Late Breaking Abstract - COVID-19 treatment and outcomes: trends over 20 months in 338,930 US hospital patients with COVID-19 and pneumonia  
Linda Chen (Foster City, United States), Robert L Gottlieb, Aastha Chandak, Richard Haubrich, Celine Der-Torossian, Eunyoung Lee, Mark Thrun, James Jarrett, Alan Smith, Agnese Restuccia, Stijn Hollemeersch, Sonia Sandhu, Thomas Oppelt, Pauline Herscu, Rikisha Gupta

**PA1894**  
Late Breaking Abstract - A randomized study to evaluate safety and pharmacokinetics of CT-P63 in healthy subjects  
Jihyun Kim (Incheon, Republic of Korea), Monika Tomaszewska-Kiecana, Anna Wolowik, Agnieszka Kulesza, Keumyoung Ahn, Nahyun Jung, Yeonmi Lee, Sunghyun Kim, Michal Maciej Nowicki

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**TP-21 in thematic poster Session 235 08:30 - 09:30 area**  
**Thematic poster: Epidemiological assessments and public health studies on tuberculosis and NTM**  
**Disease(s):** Airway diseases  
**Method(s):** Epidemiology General respiratory patient care Public health Imaging Pulmonary function testing  
**Chairs:** Alberto Garcia-Basteiro (Maputo, Mozambique), Raquel Duarte (Porto, Portugal)
A summary of contact tracing incident investigation outcomes in congregate settings from a large UK city over a 7-year period
Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Tom Marshall, Emmanouil Tranos, Hanna Kaur, Esther Robinson, Grace Smith, Martin Dedicoat

Relationship Between Biological Agents and Development Of Latent Tuberculosis In Pediatrics
Gökçen Dilsa Tugcu (Ankara, Turkey), Tugba Bedir Demirdag, Fatma Aydin, Beytullah Sentaflıoglu, Salıha Kank Yüksek, Belgin Gulhan, Aslınzur Ozkaya Parlakay, Banu Celikel Acar, Guzin Cinel

The impact of nontuberculous mycobacteria species on non-cancer mortality in patients with nontuberculous mycobacterial lung disease
Chin-Chung Shu (Taipei, Taiwan), Ping-Huai Wang, Chin-Hao Chang

A prospective cohort study comparing frailty in nontuberculous mycobacterial lung disease and bronchiectasis
Kohei Fujita (Kyoto, Japan), Yutaka Ito, Takuma Imakita, Issie Oi, Yuki Yamamoto, Osamu Kanai, Tadashi Mio

Cannabis and negative tuberculosis treatment outcomes association: a systematic review and meta-analysis
Max Arangoitia Fernandez Baca (Lima, Peru), Daniel Bustamante, Felix Cuti, Paulo Ruiz-Grosso, Cesar Ugarte-Gil

Tuberculosis in the Roma population in southwestern Romania (2010-2020)
Andreea Mihi (Staicu) (Craiova, Romania), Cristina Calarasu, Floarea Mimi Nitu, Victor Ionel Grecu, Alina Marinela Mitulescu (popa)

Epidemiology of non-tuberculous mycobacterial (NTM) infections in bronchiectasis patients using the US Bronchiectasis/NTM Research Registry (BRR)
Simon Tiberi (London, United Kingdom), Myriam Drysdale, Radmila Choate, Noah Lininger, Amanda Brunton, Hema Sharma, Susan Shrimpton, David Mannino, Kevin Winthrop

Immunonutritional status predicts poor prognosis of active pulmonary tuberculosis
Shuichi Sugiyama (Shizuoka, Japan), Taisuke Akamatsu, Yutaro Kishimoto, Kazuhiro Asada, Toshihiro Shirai

Healthcare seeking pathways and diagnostic delays among extra-pulmonary tuberculosis patients: a study from Pakistan
Ahmad Wali (Quetta, Pakistan), Nauman Safdar, Atiqa Ambreen, Sabira Tahseen, Tehmina Mustafa

Spirometry, DLCO, lung volumes and PET/CT findings after completion of tuberculosis treatment - preliminary findings of the StatinTB trial
Karen Wolmarans (Cape Town, South Africa), Sandra Mukasa, Antonetta Mashinysira, Patrick Katoto, Fareda Jakoet-Bassier, Tessa Kotze, Reto Guler, Gunar Gunther, Friedrich Thiemenmann

Profile of patients with tuberculous mastitis in a UK district general hospital
Olutobi Ojuawo (Birmingham, United Kingdom), Shahbaz Piracha, Sannaan Irshad, Mehboob Mirza, Guy Hagan

Active tuberculosis and malignance: a 5 year retrospective study
Margarida V. Matias (Lisbon, Portugal), Joana A. Ribeiro, Joana Carvalho, Conceição Gomes

FACTORs ASSOCIATED WITH THROMBOEMBOLIC EVENTS IN PULMONARY TUBERCULOSIS
Abir Hedhli Ep Cherni (Tunis, Tunisia), safra marzouki, Ouaechi Yassine, Toujani Sonia, Cheikhrouhou Souma, Mériam Samira, Mjed Meriem, Dhiabri Besma

Outcomes of Tuberculosis contact tracing and predictors of success: a 10-year retrospective cohort analysis
Felicity Andrews (COVENTRY, United Kingdom), Hanna Kaur, Martin Dedicoat

Predictors of anxiety depression disorders during active pulmonary tuberculosis
Amani Ben Mansour (Tunisia, Tunisia), Imene Nouira, Med lemeine Sidi Oumar, Hafaoua Daghfous, Soumaya Ben Saad, Fatma Tritar

MycobacteRium avium complex pulmonary disease. Risk factors.
Eva Tabernerho Huguet (Bilbao (Bizkaia), Spain), Lander Altube, Julia Amaranta Garcia Fuertes, Maria Victoria Leal Arranz, Javier Ugedo Urruela, Nerea Ortiz Laza, Borja Ortiz De Urbina, Alejandro Rezola Carasusan, Ana Gomez Larrauri, Larraitz Garcia Echeberria, Borja Santos Zorrozua

The survival of mycobacterium abcessus over twenty years
Carolina Santamaría Valencia (Maspalomas, Spain), Miriam Rodríguez De Rivera Socorro, Iovanna Socorro Ávila, Guillermo José Perez Mendoza, María Isolina Campos-Herrero Navas, Jose Antonio Caminer Luna

Prevalence and predictive factors of sleep disorders in active pulmonary tuberculosis
Amani Ben Mansour (Tunisia, Tunisia), Imene Nouira, Med lemeine Sidi Oumar, Hafaoua Daghfous, Soumaya Ben Saad, Fatma Tritar
PA1913** Characteristics of children and adolescents with rheumatologic diseases and diagnosis of active and latent tuberculosis in tertiary hospital in Rio de Janeiro – retrospective study**

Lenita De Melo Lima (Rio de Janeiro, Brazil), Ana Alice Amaral Ibiapina Parente, Rafaela Baroni Aurilio, Adriana Rodrigues Fonseca, Flávio Szajnbok, Marta Cristine Felix Rodrigues, Claudia Stella Pereira Battaglia, Michely Alexandrino De Souza Pinheiro, Belize Marques Barreto, Sidnei Ferreira, Maria De Fátima Bazhuni Pombo Sant'Anna, Clemax Couto Sant'Anna

PA1914** TB death: A 5 year retrospective analysis of tuberculosis mortality in Bristol, North Somerset and South Gloucestershire (BNSSG), United Kingdom**

Fraser Easton (bristol, United Kingdom), Joshua Hrycaiczuk, Georgina Prestwich, Sabine Bellamy, Rajeka Lazarus

TP-22 in thematic poster area

**Thematic poster:** Identification of therapeutic strategies in lung cancer

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

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

**Chairs:** Assia Konsoulou-Kirova (Varna, Bulgaria), Andriani Charpidou (Athens, Greece)

**PA1915** To stop or not to stop immunotherapy after 2 years in Non Small Cell Lung Cancer (NSCLC)? Results of a cross sectional survey among French thoracic oncologist.

Simon Storme (Lyon, France), Didier Debieuvre, Pierre-Jean Souquet, Sébastien Couraud

**PA1916** The therapeutic potential of ADAMTS8 in lung cancer patients without Immune checkpoint inhibitors/EGFR mutation

Ying-Ming Tsai (Kaohsiung, Taiwan), Yung-Chi Huang, Chao-Yuan Chang, Lian-Xiu Liu, Kuan-Li Wu

**PA1917** Clinical determinants of immunotherapy outcomes in non-small cell lung cancer patients with checkpoint inhibitor pneumonitis

Ioannis Vathiotis (Cholargos, Greece), Kyriaki Tavernaraki, Ioannis Trontzas, Eirini-Chrysovalanti Antonogiannaki, Evangelia Koukaki, Nikolaos Syrigos, Ioannis Gkiozos, Elias Kotteas, Andriani Charpidou

**PA1918** Cellular and plasmatic immune profile of anti-PD-1 therapy in phase IIIB/IV non-small cell lung cancer: relevance of immunosuppressive factors

Paulo Rodrigues-Santos (Coimbra, Portugal), Jani Sofia Almeida, Luana Madalena Sousa, Manuel Santos-Rosa, Fernando Barata, Ana Figueiredo

**PA1919** Long-term outcomes in patients with Non Small Cell Lung Cancer (NSCLC) treated by Immune Checkpoint Inhibitors (ICIs) for a minimal duration of 2 years: a cohort study in a tertiary hospital.

Simon Storme (Lyon, France), Lize Kiakouama, Marie Darrason, Gilles Devouassoux, Michael Duruisseaux, Sébastien Couraud

**PA1920** Pulmonary complications after surgical resection of lung cancer - analysis of thousands cases.

Anna Trojnar (Warszawa, Poland), Joanna Domagala-Kulawik, Anna Siemkiewicz-Ulita, Marcin Zbytniewski, Grzegorz Gryszo, Marcin Cackowski, Michał Dziedzic, Katarzyna Woźnica, Tadeusz Orlowski, Dariusz Dziedzic

**PA1921** Right intrapericardial pneumonectomy; is it still a forbidden procedure?

Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

**PA1922** Povidone Iodine use as effective pleurodesis treatment for prolonged air leak?

Abdessalem Bentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Ghassen Ben Hlima, Walid Abid, Imed Frikha

**PA1923** Longitudinal changes in pulmonary function and patient reported outcomes after lung cancer surgery

Hye Yun Park (Seoul, Republic of Korea), Sumin Shin, Sunga Kong, Danhee Kang, Genehee Lee, Jong Ho Cho, Young Mog Shin, Juhee Cho, Hong Kwan Kim

**PA1924** Effect of HIIT-based interventions on exercise capacity in lung cancer survivors: Meta-Analysis

Alejandro Heredia Ciuró (Granada, Spain), Javier Martin Nuñez, Antonio Lazo Prados, Araceli Ortiz Rubio, Andres Calvache Mateo, Marie Carmen Valenza

**PA1925** Characteristics and clinical courses in a monocentric NSCLC cohort with MET exon 14 skipping mutations

Carolin Lips (Berlin, Germany), Gesa Rafflenbeul, Torsten Gerriet Blum, Manuel Hollmann, Jens Kollmeier, Daniel Misch, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer

**PA1926** Impact of dose modification of immune-checkpoint inhibitors in lung cancer patients during the COVID-19 pandemic.

Marie Veron (La Tronche, France), Thomas Pierrat, Maurice Perol, Justin Benet, Natacha Denis, Denis Moro-Sibilot, Aurélie Swalduz, Anne Claire Toffart
PA1927  Osimertinib as neoadjuvant therapy for resectable non-small cell lung cancer: a single-center real-world study
Yan Hu (Changsha, China), Siying Ren, Lulu Yang, Zhongyi Tong, Ruoyao Wang, Wei Han, Fenglei Yu, Wenliang Liu

PA1928  The impact of the COVID-19 pandemic on delay in diagnosis and management of lung cancer in developing countries
Imen Bachouch (Ariana, Tunisia), Nourelhouda Khézami, Chaima Habouruia, Nidhal Belloumi, Bougurra Khawla, Asma Zargouni, Fatma Chermiti, Soraya Fenniche

PA1929  Response evaluation with FDG PET-CT after 2 years of immune checkpoint inhibition
Reimier R.L. Wener (Edegem, Belgium), Annemieke Snoeckx, Laurens Carp, Jo Raskin, Charlotte De Bondt, Jan P. Van Meerbeeck, Annelies Janssens

Rolof G.P. Gijtenbeek (Leeuwarden, Netherlands), Kim De Jong, Ben J.W. Venmans, Femke Van Vollenhoven, Anthonie J. Van Der Wekken, Wouter H. Van Geffen

TP-23 in thematic poster  Session 237  08:30 - 09:30
area
Thematic poster: Promising new approaches in idiopathic interstitial pneumonias

Disease(s): Interstitial lung diseases  Pulmonary vascular diseases
Method(s): Cell and molecular biology  Imaging  Transplantation  General respiratory patient care  Pulmonary function testing  Physiology  Epidemiology

Chairs: Claudia Valenzuela (Madrid, Spain), Sara Tomassetti (Florence, Italy)

PA1931  GLPG1205 shows reduction in lung volume decline over 26 weeks vs placebo when measured with novel volumetric CT analysis in IPF patients
muhunthan thillai (CAMBRIDGE, United Kingdom), Kiril Kirov, Eva Santermans, Michael Roberts, Philip Molyneaux, Fahdi Kanavati, Darren Gallagher, Angela De Haas-Amatsaleh, Tom Van Der Aa, Paul Ford, Christian Seemayer, Bernt Van Den Blink, Alessandro Ruggiero

PA1932  GALACTIC-1: Galectin-3 inhibition in idiopathic pulmonary fibrosis (IPF) – rationale, objectives and design of a 52-week, Phase IIb study of GB0139
Toby Maher (Los Angeles, United States), Marlies Wijsenbeek, Nikhil Hirani, Bertil Lindmark, De Phung, Alison Mac Kinnon, Tariq Sethi, Vassilios Aslanis, Catherine Mc Clinton, Elin Andersen, Hans Schambye, Jie Wang-Jairaj

PA1933  A phase 2b randomized trial to evaluate LY1-100 in patients with idiopathic pulmonary fibrosis (IPF)
Toby Maher (Los Angeles, United States), Paul Ford, Vincent Cottin, Paul Noble, Marlise Wijsenbeek, Michael Chen, Eric Elenko, Liza Micioni, Heather Paen, Mark Harnett, Julie Krop

PA1934  Study Design and Rationale for the TETON Phase 3 Clinical Trials of Inhaled Treprostinil in the Treatment of Idiopathic Pulmonary Fibrosis
Steven D Nathan (Falls Church, United States), Jürgen Behr, Vincent Cottin, Liza Micioni, Peter Smith, Cq Deng, Natalie Pearce, Heidi Bell, Leigh Peterson, Kevin Flaherty

PA1935  Continued nintedanib treatment in patients with progressive fibrosing ILDs: interim analysis of INBUILD-ON
Wim A Wuyts (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozertikis, Heiko Mueller, Carl Coeck, Klaus B Rohr, Vincent Cottin

PA1936  Efficacy of pirfenidone in patients with advanced IPF
Juergen Behr (München, Germany), Wim Wuyts, Harold Haller Jr, Katerina Samara, Klaus-Uwe Kirchgässler, Frank Gilberg, Steven D Nathan

PA1937  Nebulization performance and lung biodistribution profile of PRS-220, an inhaled CTGF antagonist for the treatment of IPF
Vanessa Neiens (Hallbergmoos, Germany), Marina Pavlidou, Claudia Wurzenberger, Thomas Jaquin, Eva-Maria Hanssauer, Antonio Konitsiotis, Josefine Morgenstern, Theresia Mosebach, Marleen Richter, Cornelia Wurzenberger, Matthias Hagner, Joe Alexander Wrennall, Robert Tarran, Gabriele Matschiner, Shane Olwill

PA1938  Combination antifibrotic therapy in Idiopathic Pulmonary Fibrosis patients: real life experience in an ILD Unit.
Elisa Martinez Besteiro (Madrid, Spain), Maria Jose Beceiro, Maria Churruca Arróspide, Daniel Mouhtar, Adrián Peláez, Tamara Alonso, Julio Ancochea, Claudia Valenzuela

PA1939  Interstitial lung disease with pulmonary hypertension and the potential for inhaled Treprostinil: A single centre perspective
Sheila Ramjtg (Altrincham, United Kingdom), Conal Hayton, Pilar Rivera-Ortega, Colm Leonard, Helen Morris, Katie Zakis, Jenna Swale, Theresa Garfoot, Kate Newman, Cristina Avram, John Blaikley, Nazia Chaudhuri
PA1940 Effects of a twelve-week course of azithromycin on respiratory microbiota in idiopathic pulmonary fibrosis
Pieter-Jan Gijs (Lutry, Switzerland), Cécile Daccord, Eric Bernasconi, Martin Brutsche, Christian Clarenbach, Sabina Guler, Katrin Hostettler, Manuela Funke-Chambour, Christophe Von Garnier

PA1941 Drug-drug interactions and safety assessment between selective Prolyl-tRNA Synthetase inhibitor, DW12088, and “pifendine” or “nintedanib” in healthy subjects
Min Young Park (Seoul, Republic of Korea), Jihyeon Kim, Jun Hee Nam, Jongwon Choi, Wonsuk Shin, Hyoungeyoon Yoo, Anhye Kim

PA1942 Comparative analysis of fibroblastic foci in patients with idiopathic pulmonary fibrosis and pulmonary sarcoidosis
Jan-Christopher Kamp (Hannover, Germany), Lavinia Neubert, Helge Stark, Jan B. Hinrichs, Caja Boekhoff, Allison D. Seidel, Fabio Ius, Axel Haverich, Jens Gottlieb, Tobias Welte, Peter Braubach, Florian Laenger, Marius M. Hoeper, Mark P. Kuehnel, Danny D. Jonigk

PA1943 INV-101, a cannabinoid receptor-1 inverse agonist, reduces fibrosis in a bleomycin mouse model of IPF
Glenn D. Crater (Raleigh, United States), Genevieve Gaucher, Michael Harvey, Francois Ravenelle

PA1944 Changes in Serum Metabolomics in Idiopathic Pulmonary Fibrosis and effect of approved antifibrotic medication
Benjamin Seeliger (Hannover, Germany), Alfonso Carleo, Pedro David Wendel-Garcia, Jan Fuge, Ana Worboys, Sven Schuchardt, Maria Molina-Molina, Antje Prasse

PA1945 Serum biomarkers of wound healing and basement membrane remodelling are related to disease severity and prognostic for mortality in idiopathic pulmonary fibrosis
Jannie M. B. Sand (Herlev, Denmark), Pernille Juhl, Nils Hoyer, Thomas S. Prior, Peder Frederiksen, Morton Karsdal, Henrik Jessen, Diana J. Leeming, Elisabeth Bendstrup, Saher B. Shaker, Pernille Juhl

PA1946 Harnessing the therapeutic power of secretomes to treat IPF
Michael Timaner (Jerusalem, Israel), Tali Fishman-Jacob, Barak Pertzov, Boaz Tadmor, Jason Laufer, Mordechai Kramer, Yuval Shaked

PA1947 Does hypoxia drive alveolar macrophages to potentiate fibrosis in idiopathic pulmonary fibrosis?
Lauren Davis (Birmingham, United States), Louise Crowley, Ellen Jenkins, Dhruv Parekh, Elizabeth Sapey, David Thickett, Aaron Scott

PA1948 Late Breaking Abstract - Patients with a genomic classifier result positive for UIP show a greater decline in lung function when treated with combination immunosuppressive therapy
Athol Wells (London, United Kingdom), Chris Ryerson, Lisa Lancaster, Marla Johnson, Jing Huang, Jeremy Burbanks-Ivey, Eric Morrie, Lori Lofaro, William Bulman, Giulia Kennedy, Ganesh Raghu, Mary Beth Scholand

PA1949 Late Breaking Abstract - The effect of antifibrotics in patients with different forms of pulmonary fibrosis: data from the Dutch PF registry
Aernoud van Batenburg (Nieuwegein, Netherlands), Gizal Nakshbandi, Catharina Moor, Martlies Wijsenbeek, Jan Grutters

PA1950 Late Breaking Abstract - National data on prevalence of idiopathic pulmonary fibrosis and antifibrotic drug use in Finnish specialised care
Johanna Salonen (Oulu, Finland), Minna Purokivi, Ulla Hudson, Riitta Kaarteenaho

TP-24 in thematic poster Session 238 08:30 - 09:30 area

Thematic poster: Clinical course and management of interstitial lung diseases
Disease(s): Interstitial lung diseases
Method(s): Epidemiology Imaging Pulmonary function testing General respiratory patient care Palliative care Cell and molecular biology
Chairs: Elena Bargagli (Siena, Italy), Marta Garcia Moyano (Barakaldo, Spain)

PA1951 Ultrasound may detect subclinical interstitial lung disease in systemic sclerosis
Marwin Gutierrez (Mexico City, Mexico), Chiara Bertolazzi, Denise Clavijo-Comejo, Fausto Salaffi

PA1952 Progressive interstitial lung disease is frequent also in late disease stages in systemic sclerosis patients from EUSTAR
Anna Maria Hoffmann-Vold (Oslo, Norway), Cathrine Brunborg, Paolo Airò, Lidia P Ananyeva, László Czirják, Serena Guiducci, Eric Hachulla, Mengtao Li, Carina Mihai, Gabriela Riemenkasten, Petroš P Sfikakis, Gabriele Valentini, Otylia Kowal-Bielecka, Yannick Allanore, Oliver Distler

PA1953 Anti-Ro52 antibodies positivity in antisynthetase syndrome: a single centre cohort study
Sara Lettieri (Pavia, Italy), Emanuele Bozzalla-Cassione, Giovanni Zanframundo, Valentina Vertui, Matteo Della Zoppa, Vittorio Chino, Francesco Bertuccio, Lorenzo Cavagna, Federica Meloni
Radiological Patterns and Pulmonary Function Value of Lung Involvement in Primary Sjögren’s Syndrome
Claudio Candia (Naples, Italy), Roberto Rega, Ilaria Mormile, Michela Williams, Eliana Sferra, Amato De Paulis, Francesca Wanda Rossi, Antonio Molino

Adherence to daily home-based spirometry during a 3-month period in patients with ILD: The RALPMH Study
Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, John R. Hurst, Joanna C. Porter, Amos A. Folarin

Gratitude perception during Mindfulness-Based Intervention (IBM) in patients with interstitial lung disease (ILD)
Siliana Maria Duarte Miranda, Eliane Viana Mancuzo, Gabriela Assis Pires, Luiz Fernando Ferreira Pereira, Andrew Nogueira Albuquerque Leal, Sara Cunha Paiva

Progressive fibrosing interstitial lung disease in hypersensitivity pneumonitis
Maria Laura Alberti (Buenos Aires, Argentina), Jose Maria Malet Ruiz, Leandro Fassola, Santiago Auteri, Martin Fernandez, Pablo Donati, Fabian Caro

Baseline characteristics and survival of Progressive Fibrosing Interstitial Lung Disease in Rheumatoid Arthritis. A single center retrospective study.
Fabian Matias Caro (Ciudad Autónoma Buenos Aires, Argentina), Pablo Donati, Rocio Ruiz, Santiago Auteri, Leandro Fassola, Martin Midvedt, Torhild Garen, Michael Durheim, Trond Mogens Aalokken, Øyvind Palm, Øyvind Molberg

Effectiveness of immunosuppressive therapy in the progression of rheumatoid arthritis-associated interstitial lung disease in adult patients. A systematic review and meta analysis
Josefa López Herrera (Santiago, Chile), Mercedes Tapia, Luis Toro, Nataly Ruiz, Mauricio Salinas

Clinical outcomes of patients with acute exacerbations in interstitial lung diseases
Mariana Ramos Martins (Faro, Portugal), David Barros-Coelho, Pedro Ribeirinho-Soares, André Terras-Alexandre, Natália Melo, Patricia Caetano-Mota, Hélder Novais-Bastos, António Morais

ILD associated with primary Sjögren’s syndrome is frequently progressive
Anna Maria Hoffmann-Vold (Oslo, Norway), Håvard Fretheim, Phuong Phuong Diep, Karoline Lerang, Helena Andersson, Øyvind Midvedt, Torhild Garen, Michael Durheim, Trond Mogens Aalokken, Øyvind Palm, Øyvind Molberg

Clinical difference of interstitial lung disease patients positive for anti-amnioacyl-tRNA (ARS) synthetase antibodies between dermatomyositis/polymyositis (PM/DM) group and non-myositis group
Masashi Momose (Kurashiki, Japan), Machiko Arita, Tadashi Ishida

PAD4 is associated with the predominance of fibrosis in interstitial lung diseases-rheumatoid arthritis
Karl Jazmin Nava Quiroz (Mexico, Mexico), Gloria Pérez-Rubio, Ivette Buendia-Roldán, Mayra Mejía, Jorge Rojas-Serrano, Pedro Rodríguez-Henríquez, Ramcés Falfán-Valencia

Estimating the addition clinical workload required for nintedanib treatment in PF-ILD
Alana Livesey (Birmingham (West Midlands), United Kingdom), Manbir Duggal, Anjali Crawshaw, Davinder Dosanjh, David Thickett

UK Pigeon Fanciers display a high prevalence of symptoms normally associated with connective tissue disease ILD
Mark Spears (Stirling (Stirlingshire), United Kingdom), Louise Wain, Bibek Gooptu, Stephen J Bourke, Matthew Embley, Philip Lynch, Gavin Boyd, Charles Mersharry

Assessment of initial dyspnea predicts progression of systemic sclerosis-associated interstitial lung disease (ILD-SSc) at 5 years.
Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Luiz Arreguy Nogueira, Ricardo Amorim Correa, Luiz Fernando Ferreira Pereira

Computed tomography morphometric analysis of idiopathic inflammatory myopathy related interstitial lung disease correlates with forced vital capacity
Patrick Coghlan (Dublin 4, Ireland), Alex O'Mahony, Patrick Henry, Claire Crowley, David Ryan, Niannh Moore, Michael Maher, Owen J O'Connor, Michael Henry

Profile of patients with Connective disease associated ILD presenting to a tertiary care hospital in South India
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Shona Christopher, Barney Isaac, Devasahayam J Christopher

Evolution of fibrotic interstitial lung diseases (ILD) after COVID-19
Mariana Ramos Martins (Faro, Portugal), Mariana Serino, Beatriz Martins, Inês Carvalho, Carolina Valente, Miguel Barbosa, Catarina Cascas-Costa, Marina Alves, André Terras-Alexandre, Natália Melo, Patricia Caetano-Mota, Hélder Novais-Bastos, António Morais

Progressive Idiopathic Inflammatory Myopathy-associated Interstitial Lung Diseases (IIM-ILDs)
Gioele Castelli (Padova, Italy), Elisabetta Cocone cellul, Elisabetta Zanatta, Chiara Giraudo, Nicol Bernardinello, Giordano Fiorentini, Cristina Dartora, Luca Iaccarino, Paolo Spagnolo, Elisabetta Balestro
Thematic poster: Diagnosis and epidemiology in pulmonary hypertension

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

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

**Chairs:** Frédéric Lador (Genève 14, Switzerland), Marion Delcroix (Leuven, Belgium)

**PA1971**

Fully automatic deep learning pulmonary hypertension diagnosis using CT pulmonary angiography

Krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Kavitasastry Karunasagar, Christopher S. Johns, Smitha Rajaram, Pankaj Garg, Dheyaa Alkhanfar, Samer Alabed, Peter Metherall, Jonathan Taylor, Rob J. Van Der Geest, Robin Condliffe, Michael Mamalakis, David G. Kiely, Andrew J. Swift

**PA1972**

Concordance between machine learning prediction model for pulmonary hypertension due to left heart disease and echocardiographic variables

Rafael Enrique Conde Camacho (Bogotá, Colombia), Alejandro Londoño, Manuel Pacheco, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramirez-Sarmiento, Mauricio Orozco-Levi

**PA1973**

Identification of pulmonary hypertension patients in coded healthcare databases: a clinical evaluation study

Eva-Maria Didden (Allschwil, Switzerland), Di Lu, Andrew Hsi, Haley Hedlin, Monika Brand, Roham T. Zamanian

**PA1974**

Hypochromic erythrocytes as prognostic indicator of survival among patients with systemic sclerosis screened for pulmonary hypertension

Christina Eichstaedt (Heidelberg, Germany), Ojan Gordjani, Panagiota Xanthoulis, Nicola Benjamin, Benjamin Egenlauff, Satenik Harutyunova, Alberto Marra, Vivienne Theobald, Nicklas Milde, Christian Nagel, Norbert Blank, Hanns-Martin Lorenz, Ekkehard Grünig

**PA1975**

Conduction disease in IPAH: prevalence and clinical implications

Ashwin Reddy (Cambridge, United Kingdom), Sarah Nethercott, Wen Teh, Eckaart De Bie, Joanna Pepke-Zaba, Claire Martin, Mark Toshner

**PA1976**

Influence of lung impairment on onset of pulmonary hypertension in patients with COVID-19-associated pneumonia

Olha Shchudro (Dnipro, Ukraine), Mariia Krykhinta, Ksenia Bielosludtseva, Konopkina Lyudmila, Botvinikova Larysa

**PA1977**

CT-derived vascular pruning assessment in portopulmonary hypertension

Emmy Mai (Cincinnati, United Kingdom), Sara Couto Pereira, Beatrix Valente Silva, Ana Margarida Martins, Beatrix Garcia, Catarina Oliveira, Tatiana Guimarães, Nuno Lousada, Fausto J Pinto, Rui Plácido

**PA1978**

Multidimensional CT approach to predict hemodynamics in PH


**PA1979**

Serum uric acid and long-term survival in patients with pulmonary arterial hypertension (group 1 and 4) – results from a single pulmonary hypertension centre in Slovenia

Anže Žgank (Ljubljana, Slovenia), Barbara Salobir, Matevž Harlander, Polona Milakar, David Lestan, Matjaž Turel, Janez Topišek, Vojka Gorjup, Irene Lang

**PA1980**

Genetics in pulmonary arterial hypertension

Stephanie Lua (Glasgow, United Kingdom), Harrison Stubbs, Alexander Maclellan, Melanie Brewis, Colin Church, Martin Johnson

**PA1981**

The right ventricle as treatment target in pulmonary arterial hypertension

Lucas Celant (Amstelveen, Netherlands), Lilian Meijboom, Harm Jan Bogaard, Frances S De Man, Anton Van de Graaf

**PA1982**

Characteristics of risk strata in patients diagnosed with pulmonary hypertension in Colombia

Mauricio A. Orozco-Levi (Barcelona, Spain), Juliana De Luque, Diana Tiga-Loza, Rafael Conde, Alejandro Londoño, Manuel Pacheco, Carlos Jaime Velásquez, Angie Pabón, Ricardo Gómez-Palau, Julián Cortés-Colorado, Alba Ramírez-Sarmiento
PA1985  Phenotyping Pulmonary Hypertension in Costa Rican population: Epidemiology and treatment response.
Adriana Valverde Zuñiga (Heredia, Costa Rica), Marlene Jimenez Carro, Benjamín Ramirez Cisneros

PA1986  Incidence and outcomes of pulmonary hypertension in the Republic of Ireland
Sarah Cullivan (Dublin, Ireland), Brian McCullagh, Sean Gaine

PA1987  Underweight/overweight syndrome in patients with pulmonary hypertension in Colombia: a prevalence study.
Alejandro Londoño, Rafael Conde, Manuel Pacheco, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramirez-Sarmiento, Mauricio Orozco-Levi

PA1988  Childhood Trauma in patients with PAH -prevalence, impact on QoL and mental health - a preliminary report
Da-Hee Park (Hannover, Germany), Kai G. Kahl, Jan C. Kamp, Manuel J. Richter, Henning Gall, Hossein A. Ghofrani, Marius M. Hoeper, Karen M. Olsson, Jan Fuge

PA1989  Late Breaking Abstract - Cytokines as prognostic biomarkers in pulmonary arterial hypertension
Athénaïs Boucly (Le Kremlin Bicêtre, France), Ly Tu, Christophe Guignabert, Christopher Rhodes, Pascal De Groote, Grégoire Prévot, Emmanuel Bergot, Arnaud Bourdin, Antoine Beurnier, Anne Roche, Mitja Jevnikar, Xavier Jaïs, David Montani, Martin R Wilkins, Marc Humbert, Olivier Sitbon, Laurent Savale

PA1990  Late Breaking Abstract - Improvement of risk in patients with severe chronic thromboembolic pulmonary hypertension after 24 weeks treatment with subcutaneous treprostinil
Pavel Jansa (Jinny, Czech Republic), Roela Sadushi-Kolici, Grzegorz Kopiec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Stieringer-Mascherbauer, Barbara Salobir, Walter Klepelko, Jaroslav Lindner, Irene Lang

TP-26 in thematic poster  Session 240  08:30 - 09:30

Thematic poster: Updates in imaging COVID pneumonia, emphysema and interstitial lung diseases

Disease(s) : Respiratory critical care  Airway diseases  Interstitial lung diseases
Method(s) : Imaging  Respiratory intensive care  Public health  Endoscopy and interventional pulmonology  General respiratory patient care

Chairs : David Laszlo Tarnoki (Budapest, Hungary), Veronika Müller (Budapest, Hungary)

PA1991  COVID-19 diagnosis and disease severity prediction assessment through an innovative AI-based model
Julien Guiot (Liège, Belgium), Benoît Ernst, Monique Henket, Renaud Louis, Paul Meunier, Dirk Smeele, Arne Bys, Simon Van Eyndhoven

PA1992  Automatic detection of COVID-19 pneumonia through artificial intelligence applied to chest X-rays
Enrique Añorbe (Vitoria, Spain), Arantxa Bereciartua, Pilar Aisa, Andrea García-Tejedor, Andrea Valero, Artzai Picón, Teodoro Palomares, Estibaliz Garrote

PA1993  Three and six months follow up chest CT findings after COVID-19 pneumonia
Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Racem Ammar, Ahmed Dhiaa Eleuch, Rahma Sellami, Inen Ketata, Hamida Kwass

PA1994  Impact of pre-existing respiratory disease on radiological outcomes in COVID-19 pneumonia
Hafiz Gulzeb Kamil (Chester, United Kingdom), Ammar Abdelaziz, Aravind Ponnuswamy

PA1995  Collateral benefits of doing HRCT for COVID 19 pneumonia
Deepak Muthreja (Nagpur (Maharashtra), India), Nilay Nimbalkar, Hardik Gopani

PA1996  Post-Acute Squeal of COVID-19 Pneumonia: Three-month Chest CT Follow-up
Soumaya Bouchareb (Ksar Hellal, Tunisia), Nadia Boudawara, Fadia Boubaker, Cyrine Ben Taleb, Ameni Hamdi, Boutheina Ben Rejeb, Ameni Ben Salem, Aya Zaara, Imen Touil, Leila Bousoffara, Jalel Knaani

PA1997  Lung volumetry correlates with P/F ratio and inflammatory biomarkers in COVID-19 patients
Martina Sciolla (Torino, Italy), Rouslan Senkeev, Giuseppe Stranieri, Luciano Cardinale, Thomas Fraccalini, Emiliano Gatti

PA1998  Natural evolution of COVID19 pneumonia radiological findings
Irma Bracka (GALATSI ATHENS, Greece), Eleni Bellou, Ioannis Karampini, Elli Keramida, Thodoris Daskalos, Panagiotis Demertzis, Georgia Hardavella

PA1999  Socio economic deprivation and its Impact on COVID-19 recovery -analysis of radiological outcome from an English Hospital
Hafiz Gulzeb Kamil (Chester, United Kingdom), Aravind Ponnuswamy
Rate and spectrum of incidental findings on CT pulmonary angiogram of COVID-19 patients.
Georgia Clarke (Salford, United Kingdom), Sophie Ashley, Moneeba Malik, Rajesh Kumar Yadavilli

CO-RADS, COVID-PCR and prognosis relationship in patients followed in intensive care unit with the diagnosis of COVID-19
Güntüg Batıhan (Izmir, Turkey), Funda Cansun, Seher Susam

Role of 'Radiological Phenotypes' in Diagnosis, Treatment and Assessment of Covid-19 Pneumonia: Multicentric study of 6000 cases in tertiary care setting in India
Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Rajesh Patil, Atul Deshmukh, Gajanan Gondhali

CXR severity as a predictor for post-COVID-19 related ILD
Da Wit Kim (New Malden, United Kingdom), Irilda Budaj, Hussein Chreif, Sharon Power, Nisar Tosia

Effect of kernel use on emphysema score in severe COPD patients evaluated for lung volume reduction
Jens Thomas Bakker (GRONINGEN, Netherlands), Karin Klooster, Hendrik Joost Wisselinck, Gert Jan Pelgrim, Rozemarijn Vliegenthart, Dirk-Jan Slebos

Quantitative CT evaluation of lobar ventilation and perfusion in emphysematous candidate patients for Lung Volume Reduction
Arafa Aboelhassan (Assiut, Egypt), Eric Tenda, Safaa Wafy, Gamal Agmy, Pallav Shah

Comparing CT-based fissure completeness scores across software packages to predict interlobar collateral ventilation
Iwein Gyselinck (Leuven, Belgium), Pieter Hoeben, Hannelore Geysen, Frederik De Keyzer, Christophe Dooms, Dirk Van Raemdonck, Geert Verleden, Laurens Ceulemans, Wim Janssens, Johan Coolen

Correlation between radiological scores and respiratory function in patients with bronchiectasis
Soumaya Debidche (Le Kram, Tunisia), Snène Houda, Guemri Malika, Blibech Hana, Daoud Sirine, Kaabi Line, Daighfous Jalloul, Leila Ben Farhat, Mehiri Nadia, Nozha Ben Salah, Beechir Louzir

Quantitative morphological airway damage in idiopathic pulmonary fibrosis
Ashkan Pakzad (London, United Kingdom), Wing Keung Cheung, Kim Quan, Nesrin Mogulkoc, Coline H.M. Van Moorsel, Brian J. Bartholmai, Hendrik W. Van Es, Alper Ezircan, Frouke Van Beek, Marcel Veltkamp, Ronald Karwoski, Tobias Peikert, Ryan D Clay, Finbar Foley, Cassandra Braun, Recep Savas, Carole Sudre, Tom Doel, Daniel C. Alexander, Peter Wijeratne, David Hawkes, Yipeng Hu, John R Hurst, Joseph Jacob

(Early) Economic Evaluation of the AI-based software "icolung" for the detection and prognosis of COVID cases from CT scans
Benoit Ernst (Liège, Belgium), Giovanni Esposito, Julien Guiot, Renaud Louis, Paul Meunier, Philippe Kolh

Symptom profile in obese COPD (Chronic Obstructive Pulmonary Disease) patients compared with non-obese patients: retrospective evaluation in the French overseas department of Reunion Island (period 2015-2020).
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan

ANXIETY SCREENING IN PATIENTS WITH COPD
Enrique Barrueco-Otero (, ), Belén Reoyo-Matellán, Tamara Clavero-Sánchez, María Bartol-Sánchez, Laura Gil-Pintor, Cristina Juliá-Alvarez, Vanesa Hidalgo-Sierra, Miguel Barrueco-Ferrero, Javier Perez-Rodriguez, Miguel Angel Hernandez-Mezquita

Simple clinical phenotypes as predictor of all-cause mortality in the real-life COPD cohort (post-hoc analysis of the Czech data from POPE Study)
Vladimir Koblízek (Hradec Králové, Czech Republic), Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr

Using UK primary care electronic health records to understand diagnostic pathways for chronic breathlessness
Urvée Karsanji (Leicestershire, United Kingdom), Claire A Lawson, Jennifer K Quint, Kamlesh Khunti, Emily Petherick, Michael C Steinert, Rachael A Evans

Is CPAP Therapy improving the Cardiovascular Outcome in Patients with Obstructive Sleep Apnea?
Anca Diana Maierean (, ), Damiana Maria Vultură, Ioana Maria Chetan, Doina Adina Toade

Thematic poster: Management of respiratory chronic conditions in primary care
Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Sleep and breathing disorders
Method(s) : General respiratory patient care, Public health, Pulmonary rehabilitation, Epidemiology, Pulmonary function testing
Chairs : Janwillem W. H. Kocks (Groningen, Netherlands), María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain)
Symptom profile in obese COPD (Chronic Obstructive Pulmonary Disease) patients compared with non-obese patients: retrospective evaluation in the French overseas department of Reunion Island (period 2015-2020).
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan

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Anca Diana Maierean (, ), Damiana Maria Vultură, Ioana Maria Chetan, Doina Adina Toade
Sleep-tracking device compared to polysomnography for respiratory events and sleep architecture analysis
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Julia Herrera Huertas, Maria Fernanda Troncoso Acevedo, Marcel José Rodríguez Guzmán, Cristina Patricia Esteban Amarilla, Laura Núñez García, Laura De La Dueña Muñoz, Carlos López Chang, María Jesús Rodríguez Nieto

Subjective swallowing symptoms in COPD, a 2-year follow up
Margareta Gonzalez Lindh (Gävle, Sweden), Björn Ställberg, Maria Härstedt, Andre Malinovschi, Kristina Bröms, Karin Lisspers, Andreas Palm, Christer Janson, Mareanne Högman

The STREET (Structured Efficient E-Tracking) Project for early COPD Diagnosis and Care
Manlio Milanese (Pietra ligure (SV), Italy), Roberta Pennazio, Adriana Brusa, Giancarlo Conte, Alessandro Cavaliere, Giovanni Cavallaro, Monica Cirone

Factors associated with COPD exacerbations in emergency services
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni García Castro

Perceptions of Australian general practitioners on e-cigarettes as a smoking cessation aid
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Hester Wilson, Jamie Brown, Chris Barton

The relationship between peak inspiratory flow rate (PIFR) and COPD severity measured as FEV1%predicted, and other lung function parameters in 33304 tests in patients at two different sites in Karolinska University Hospital in Stockholm, Sweden.
Martin Anderson (Hägersten, Sweden), Esther Sailer, Evelina Björk, Thomas Gustafsson

Informing an intervention to improve referral to Pulmonary Rehabilitation (PR) for patients with Chronic Obstructive Pulmonary Disease (COPD): A survey of primary health care practitioners.
Jane Watson (Epsom, United Kingdom), Rachel Jordan, Peymane Adeb, Sheila Greenfield

Multidisciplinary perspectives on the role of primary care in managing chronic breathlessness
Anthony Paulo Sünjaya (Sydney, Australia), Allison Martin, Clare Arnott, Christine Jenkins

Maximizing the benefit from the Inhaler In Order to Minimize Carbon Footprint
Mark Nagel (London (ON), Canada), Cathy Doyle, Rubina Ali, Jason Suggett

To Assess Metered-dose Inhalers With Spacer Technique Among Postgraduate Trainee Doctors
Raza Ullah (peshawar, Pakistan), Tahir Iqbal, Shahida Naz

Relation of health-related quality of life and caregiver anxiety and depression in primary ciliary dyskinesia
Mina Hizal (Ankara, Turkey), Pinar Zengin Akkus, Dilber Ademhan Tural, Sanem Eryilmaz Polat, Nagehanimirjioğlu, Elif Özmert, Sevilay Karahan, Ebru Yalcın, Deniz Dogru, Nural Kiper, Uğur Ozcelik

Carbon footprint of inhalers in respiratory treatment: SABA CARBON International
Ashraf Alzaabi (Abu Dhabi, United Arab Emirates), John Bell, Felicia Montero-Arias, David Price, David Jackson, Hao-Chien Wang, Nigel Budgen, Hisham Farouk, Ekaterina Maslova

Knowledge about practical aspects of use of inhaler devices among primary care practitioners in India
Sapna Madas (Pune (Maharashtra), India), Monica Barne, Medha Bargaje, Swati Joshi, Amit Karad, Vaishali Naik, Sundee Salvi

Frontline health care worker delivered interventions for improving outcomes in people with chronic respiratory diseases in resource limited settings
Paul Jebaraj (Vellore, India), RITA ISAAC, Biswajit Paul, Deepa Das, Hilory Pinnock, John Norrie, David Weller

Thematic poster: Topics in respiratory and muscle function

Disease(s): Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s): Physiology, Public health, General respiratory patient care, Imaging, Pulmonary rehabilitation, Pulmonary function testing, Cell and molecular biology

Chairs: Samuel Verges (Grenoble, France), Christina M. Spengler (Zürich, Switzerland)

The effect of nostril occlusion and mouth sealing in the measurement of sniff nasal inspiratory pressure
Anne Rossel (London, United Kingdom), Neeraj M. Shah, Shauna Sheridan, Gill Arbene, Eui-Sik Suh, Joerg Steier, Nicolas Bank, Patrick B. Murphy, Michelle Ramsay, Georgios Kaltsakas
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<tr>
<th>Paper Number</th>
<th>Title</th>
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<tr>
<td>PA2030</td>
<td>A simple approach for assessing leg muscle oxygenation during incremental exercise in fibrotic interstitial lung disease</td>
<td>Mathieu Marillier (Echirolles, France), Anne-Catherine Bernard, Samuel Vergès, Denis E. O'Donnell, Onofre Moran-Mendoza, J. Alberto Neder</td>
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<tr>
<td>PA2031</td>
<td>Capacity of PImax and SNIP for the diagnosis of respiratory muscle weakness</td>
<td>Walther Ivan Giron Matute (Madrid, Spain), Sergio Suarez Escudero, Zichen Ji, Alicia Cerezo Lajas, Beatriz Recio Moreno, Katusuka Liendo Martinez, Irene Milagros Dominguez Zabaleta, Virginia Parra León, Cristina Sánchez Fernández, Cristhian Alonso Correa Gutiérrez, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestú</td>
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<td>PA2032</td>
<td>Exercise Induced Laryngeal Obstruction (EILO) while breathing cold air.</td>
<td>Haakon Kvidaland (BERGEN, Norway), Hege Clemm, Ola Oringe Roksund, Maria Vollsæter, Silje Maeland, Jon Hardie</td>
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<tr>
<td>PA2033</td>
<td>Exercise Induced Laryngeal Obstruction (EILO) – diagnosis and therapy response</td>
<td>Siobhan Ludlow (Cheshire, United Kingdom), Stephen Fowler, Thomas Pantin</td>
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<td>PA2034</td>
<td>Can six weeks with Inspiratory Muscle Training (IMT) with individualized pressure-settings improve Exercise induced laryngeal obstruction (EILO)-symptoms?</td>
<td>Petrine Solli Véierod (Bergen, Norway), Haakon Kvidaland, Thomas Halvorsen, Hege Clemm, Ola D. Roksund, Maria Vollsæter</td>
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<td>PA2035</td>
<td>Short-term repeatability of maximal respiratory pressures in healthy volunteers measured with a novel respiratory health meter.</td>
<td>Herkko Ryynänen (Helsinki, Finland), Ilpo Kuronen, Essi Ahokas, Maarit Valtonen, Johanna K. Ihalainen, Anssi Sovijärvi, Juhani Multanen</td>
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<td>PA2036</td>
<td>Respiratory muscle pressures in ALS patients: Can we do without them? (Correlation of FVC decrease from erect to supine position with maximum inspiratory muscle pressure)</td>
<td>Evangelia Koukaki (SALAMINA, Greece), Vasiliki Panou, Petros Bakakos, Nikolaos Koulouris, Antonia Koutsoukou</td>
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<td>PA2037</td>
<td>Prognostic value of a low resting inspiratory capacity and reduced inspiratory muscle strength in COPD</td>
<td>Matthew D. James (Kingston (ON), Canada), Devin Phillips, Matthew James, Sandra Vincent, Juan Pablo De-Torres, J Alberto Neder, Daniel Langer, Denis O'Donnell</td>
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<tr>
<td>PA2038</td>
<td>The effect of pulmonary rehabilitation on respiratory and peripheral muscle weakness following SARS-CoV-2 infection: an interim analysis</td>
<td>Nikolaos Chynkiamis (Ilion, Greece), Angelos Vontetsianos, Christina Anagnostopoulou, Aikaterini Bakiri, Nektarios Anagnostopoulos, Kyriaki Cholidou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris</td>
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<td>PA2039</td>
<td>Validating RespMech: an automated, free and open-source platform for diaphragmatic electromyography analysis at rest and in exercise</td>
<td>Annie Liu (Richmond Hill, Canada), Nathaniel Y. W. Yuen, Yannick Molgat-Seon, Matthew D. James, Denis E. O'Donnell, Nicolle J. Domnik, Emil Schwarz Walsted</td>
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<td>PA2040</td>
<td>Post-Covid-19 peripheral muscle weakness is not associated with muscle ultrasound echogenicity or muscle thickness</td>
<td>Anouk Stooffels (Nijmegen (GE), Netherlands), Nicol Voermans, Hieronymus Van Hees, Jeannette Peters, Hanneke Van Helvoort, Esther Van Voorthuizen, Jonne Doorduin, Bram Van Den Borst</td>
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<td>PA2041</td>
<td>The role of extracellular matrix proteins on exercise training-induced muscle fibre adaptations in COPD</td>
<td>Ioannis Vogiatzis (Blyth, United Kingdom), Efpraxia Kritikaki, Kay Padget, Gerasimos Terzis, Davina Simoes</td>
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<td>PA2042</td>
<td>Respiratory function in subjects recovered from covid-19 with sarcopenia</td>
<td>Laura Cornejo-Cornejo (México City, Mexico), Arturo Orea-Tejeda, Carlos Sanchez-Moreno, Dulce Gonzalez-Islas, Mariana Salvarriera-Escobar, Iris Lopez-Vazquez, Jorge Aguilar-Meza, Juan Marquez-Cordero, Alejandra Rios-Pereda, Mariana Salgado-Fernandez, Angela Jimenez-Valentin, Samanta Hernandez-Lopez</td>
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<td>PA2043</td>
<td>Effects of inspiratory muscle training on thoracoabdominal muscle kinematics during exercise in older adults</td>
<td>James Manfield (Newcastle upon Tyne, United Kingdom), Charikleia Alexiou, Dimitrios Megaritis, Katherine Baker, Nicola Adams, Gill Barry, Ioannis Vogiatzis</td>
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<td>PA2044</td>
<td>Post-COVID Assessment of Pulmonary Function and Muscles Strength Test in Healthy Subjects</td>
<td>Josuel Ora (Roma (RM), Italy), Paola Rogniani, Marilisa Vignuoli, Letizia Valentino, Giancarlo Pontoni, Francesca Di Ciuccio, Roberto Ferrara, Tommaso Sciarrara</td>
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<td>PA2045</td>
<td>How does Sarcopenia effect elderly COPD Patients?</td>
<td>Seda Tural Onur (Istanbul, Turkey), Kaan Kara, Fatma Akyil Tokgöz, Hulya Abali, Sinem Nedime Sokucu</td>
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<td>PA2046</td>
<td>A model of peripheral edema and its impact on the quantification of leg strength in COPD and healthy subjects</td>
<td>Jason Peng (Maywood, United States), Paul Chung, Stefano Pini, Hameeda Shaikh, Lissette Orozco-Bersoza, Martin Tobin, Franco Laghi</td>
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Unobtrusive estimation of ventilatory and muscle activity for COPD assessment
Dolores Blanco-Almazán (Barcelona, Spain), Willemijn Groenendaal, Manuel Lozano-García, Luis Estrada-Petrocelli, Lien Lijnen, Rana Önder, Christophe Sneets, David Rutten, Francky Catthoor, Raimon Jané

Self-monitoring to detect early signs of altitude illness in COPD. A diagnostic accuracy study.

Thematic poster: Advanced models for drug discovery and functional changes in lung disease

**Session 243 08:30 - 09:30**

**Thematic poster area**

**Thematic poster: Advanced models for drug discovery and functional changes in lung disease**

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

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

**Chairs:** Arunima Sengupta (Bern, Switzerland), Simon D. Pouwels (Zuidhorn, Netherlands)

**PA2049**
**Bleomycin-induced in vitro 3D spheroid model to emulate pulmonary fibrosis**
Ozlem Goksel (Izmir (Bornova), Turkey), Ecem Saygili, Utku Devamoglu, Bakiye Goker-Bagea, Cigir Biray-Avci, Tuncay Goksel, Ozlem Yesil-Celiktas

**PA2050**
**Reticular basement membrane proteins modulate basal airway epithelial attachment and barrier formation in asthmatic airways**
Aileen Hsieh (Vancouver, Canada), Emmanuel Osei, May Fouadi, Kauna Usman, Yolanda Yang, Tillie-Louise Hackett

**PA2051**
**Late Breaking Abstract - An apical-out airway organoid model to study viral infections and assess antiviral drug effects**
Georgios Stroulios (Cambridge, United Kingdom), Tyler Brown, Douglas Kondo, Alessandro Deli, Allen Eaves, Sharon Louis, Juan Hou, Wing Chang, Salvatore Simmini

**PA2052**
**Aging Induces Stiffening of the Lung Extracellular Matrix**
Isaac Almendros Lopez (Barcelona, Spain), Maria Narciso, Anna Ulldemolins, Daniel Navajas, Ramon Farre, Nuria Gavara

**PA2053**
**Autosomal recessive mutations in TP73 cause a mucociliary clearance disorder and lissencephaly**
Heymut Omran (Münster, Germany), Julia Wallmeier, Diana Bracht, Hessa S. Alsafi, Gerard W. Dougherty, Heike Olbrich, Sandra Cindric, Mark Dzietko, Christoph Heyer, Norbert Teig, Charlotte Thielis, Fowzan Alkuraya, Cordula Koerner-Rettberg

**PA2054**
**An in vivo genetic screen of lung function candidate genes using tissue-specific RNAi in Drosophila melanogaster**
Emma Szamek (Nottingham, United Kingdom), Ian Sayers, Marios Georgiou, Zsuzsa Markus

**PA2055**
**Humanized Patient-derived xenograft models for developing personalized therapy against Small Cell Lung Cancer**
Emma Szamek (Nottingham, United Kingdom), Ian Sayers, Marios Georgiou, Zsuzsa Markus

**PA2056**
**Airspace dilatation is present at birth and increases with age in mice with cystic-fibrosis like lung disease**
Pineopli Anagnostopoulou (Nicosia, Cyprus), Sanja Blaskovic, Dominik Schittny, Elena Borisova, Florian Kronig, Sai K. Ganesh, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schleputz, Marco Stampanoni, Johannes C. Schittny

**PA2057**
**Respiratory disease modeling using submerged differentiated airway epithelial cells**
Gimano Amatngalim (Utrecht, Netherlands), Hetty Raeven, Lisa Rodenburg, Loes Oosterhoff, Shannon Smits, Isabelle Van Der Windt, Cornelis Van Der Ent, Jeffrey Beekman

**PA2058**
**An amplification-free, innovative, multiplex assay to quantify microRNAs in single cells from COPD patients**
Vanessa Ho (London, United Kingdom), Jonathan R Baker, Keith R Willison, David R Klug, Peter J Barnes, Louise E Donnelly

**PA2059**
**Novel strategies for genetic manipulation of human iPSC-derived organoid platforms**
Irene Oglesby (Dublin 9, Ireland), Chiara De Santi, Anja Schweikert, Sally Ann Cryan, Killian Hurley

**PA2060**
**Development of a bronchial epithelium model innervated by sensory neurons from human induced pluripotent stem cells**
FLORENT FOISSET (ILLKIRCH CEDEX, France), Christine Lehalle, Amel Nasri, Carine Bourdais, Isabelle Vachier, Said Assou, Quentin Muller, Vincent Flachet, Arnaud Bourdin, John De Vos, Nelly Frossard
Prolonged 3D culture leads to telomere length attrition in induced pluripotent stem cell-derived type 2 alveolar epithelial cells
Anja Schweikert (Dublin, Ireland), Mari Ozaki, Irene Oglesby, Killian Hurley

High through-put computerised image analysis for primary ciliary dyskinesia diagnostics
Claire L Jackson (Southampton (Hampshire), United Kingdom), Neveltha Pathmanathan, Janice L Coles, David Chatelet, Gemma Fryatt, Jane S Lucas

Cross-talk between alveolar epithelial cells and pulmonary arterial endothelial cells modulates activity of the L-arginine–dimethylarginine–NO pathway in hypoxia.
Rainer Böger (Hamburg, Germany), Lena Schmidt-Hutten, Fiona Franke, Mariola Kastner, Melanie Reckordt, Juliane Hannemann

Defining spatial secretome and ciliome across multiciliated epithelia
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Lynne Bingle, Colin Bingle

Defining the functions of PIERCE1 and C15ORF65 during ciliogenesis of HBEC3-KT cells
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Lynne Bingle, Colin Bingle

Relating ciliary dysfunction to clinical phenotypes in COPD
James Tonkin (London, United Kingdom), Andrew Rogers, Christopher M Orton, Francesca M Conway, Bavithra Vijayakumar, Ley Chan, Anand Tana, Cielito Caneja, Laura Avanz, Rebecca Wawman, Alexandra Baikov, Pankaj K Bhavsar, Pallav L Shah

An artichoke-derived compound increase \([\text{Ca}^{2+}]\) by inhibiting Sarco/Endoplasmic Reticulum Ca2+-ATPase (SERCA) and activates airway ciliary beating in humans
Shigekuni Hosogi (Kyoto, Japan), Nobuhisa Todo, Kouta Noriyama, Nobuyo Tamiya, Masaki Shigeta, Seikou Nakamura, Koichi Takayama, Eishi Ashihara

Comparative secretome analysis of differentiated epithelial cells grown at the Air liquid interface (ALI)
Zeyad Alharbi (Sheffield (England), United Kingdom), Lynne Bingle, Colin Bingle

Transcriptome analysis indicates more AT2-to-AT1 transition in COPD
Zhiheng Cheng (Groningen, Netherlands), Sabine Bartel, Jos L.L. Van Nijnatten, Rene Bults, Corry-Anke Brandsma, Wim Timens, Alen Faiz, Reinoud Gosens, Maarten Van Den Berge, Machteld N. Hylkema

Aging and senescence in alveolar epithelial type II cells affect progenitor cell function and aggravate acute lung injury
Christina Brandenberger (Hannover, Germany), Merle Hirsch, Christina Hildebrand, Christian Mühlfeld, Dirk Wedekind

Activation of the PPARg pathway to restore mesenchymal stem cell niche properties and induce alveolar regeneration in elastase induced emphysema
Grégoire Justeau (Angers, France), Marylène Toigo, Laure Crepin, Jorge Boczkowski, Bruno Ribeiro, Laurent Boyer

Oxidative stress is a key driving mechanism in the pathogenesis of inflammatory lung diseases
Karosham (Diren) Reddy (Glebe, Australia), patrick he, Michael Papanicolaou, Sandra Rutting, Diren Reddy, Alaina Ammit, Dikaia Xenaki, David Van Reyk, Brian Oliver

Hydrogen sulfide attenuates cigarette smoke-induced oxidative stress and inflammation in human primary bronchial epithelial cells and experimental COPD
Vinod Kumar (North Lambton, Australia), Jay Horvat, Peter Wark, Matt Whiteman, Philip Hansbro

Effect of cigarette smoke exposure on airway epithelial barrier function in never-smokers and ex-smokers with and without COPD
Kingsley Okechukwu Nwozor (Vancouver, Canada), Qing Chen, Yolanda Yang, Xinzhi Zheng, Tessa Kole, Dirk-Jan Slebos, Karin Klooster, Maarten Van Den Berge, Tillie-Louise Hackett, Corry-Anke Brandsma, Irené H. Heijink

Electronic cigarette liquids impair protein synthesis and alter proteomic profiles in V79 cells
Mila Ljujic (Belgrade, Republic of Serbia), Sara Trifunovic, Katarina Smiljanic, Fiorella Solari, Albert Sickmann, Aleksandra Divac Rankov
Translational chronic drug-induced ILD mouse model, characterized by low-grade inflammation, fibrosis and dilated large airways
Irma Mahmutovic Persson (Lund, Sweden), Jian Liu, René In ‘T Zandt, Nina Fransén Petterson, Anders Örbom, Hanna Falk-Håkansson, Carla Carvalho, Karin Von Wachenfeldt, Lars E. Olsson

Exposure to nicotine containing e-cigarette vapor leads to endothelial barrier dysfunction and increased susceptibility to LPS in-vitro
Benjamin Seeliger (Hannover, Germany), Thorben Pape, Paul Horn, Klaus Stahl, Julius J Schmidt, Tobias Welte, Antje Prasse, Natascha Sommer, Sascha David

Fibroblast from IPF patients produces glycosaminoglycans with higher affinity for FGF2
Zackarias Söderlund (Lund, Sweden), Roberto Mastio, Daniel Willén, Emil Tykesson, Ulf Ellervik, Gunilla Westergren-Thorsson

A lung and kidney specific fragment of type IV collagen is associated with increased mortality in idiopathic pulmonary fibrosis
Annika Hummersgaard Hansen (Herlev, Denmark), Thomas Skovhus Prior, Diana Julie Leeming, Morten Asser Karsdal, Jannie Marie Bülow Sand, Elisabeth Bendstrup

Disruption of prostaglandin F2α receptor signaling attenuates fibrotic remodeling in a preclinical murine model of idiopathic pulmonary fibrosis
Michael Beers (Philadelphia, United States), Soon Yew Tang, Luis Rodriguez, Yaniv Tomer, Aditi Murthy, Tian-Quan Cai, Caitlin Connelly, Astrid Gillic, Yao Wong, Garret Fitzgerald

WNK1 signaling after loss of CFTR function in pneumonia-induced lung barrier failure
Laura Kneller (Berlin, Germany), Lasti Erfinanda, Wolfgang M Kuebler, Martin Witzenrath, Birgitt Gutbier

Air pollution induced emphysema in ageing rats via Hippo signaling pathway
Vincent Laiman (Taipei, Taiwan), Hsiao-Chi Chuang

Interleukin-1 alpha counteracts transforming growth factor-β2 signaling in lung extracellular matrix remodeling.
Kauna Usman (Vancouver, Canada), May Fouadi, Emmanuel Osei, Tillie-Louise Hackett

Greenspace and children's lung function in China
Tingting Ye (Melbourne, Australia), Yuming Guo, Michael Abramson, Tiantian Li, Shanshan Li

Late Breaking Abstract - Exposure to particulate matter alters neutrophil lysosomal function and activation status
Emily Watts (Edinburgh, United Kingdom), Ryan Huff, Christoher Rider, Moira Whyte, Sarah Walmsley, Christopher Carlsten

Late Breaking Abstract - A novel neuropilin-2 (NRP2) antibody for immunohistochemical staining of patient tissue samples
Yeeting Chong (San Diego, United States), Sarah Förster, David Siefker, Yvonne Becker, Erik Escobedo, Luke Burman, Kaitlyn Rauch, Suzanne Paz, Christoph Burkart, Michael Muders, Leslie Nangle

TP-7 in thematic poster area
Thematic poster: Pathophysiological consequences of sleep apnoea: insights from basic research

Disease(s): Airway diseases, Sleep and breathing disorders
Method(s): Physiology, Cell and molecular biology, General respiratory patient care, Public health, Pulmonary function testing, Epidemiology
Chairs: Martino Pengo (Milano (MI), Italy), Ulla Anttalainen (Paimio, Finland)

Overnight oxygen saturation is higher at the forehead compared to fingertip measurements
Hartmut Schneider (Frankfurt, Germany), Hartmut Schneider, Sandra Mukasa, Syuyumbeki Mueller, Adelina Varavinova, Felix Fronke, Flavio Raschella, Pieter Ermers, Marjolein Vliexs, Ruben De Francisco

Predictors of chronic hypercapnia in obese patients with suspected breathing sleep disorder
Abid Sourour (Sfax, Tunisia), Hanen Krichen, Rim Kammoun, Amina Kotti, Issraa El Wadhane, Sameh Msaad, Amin Bahoul, Walid Feki, Samy Kammoun

Combined ECG and breathing frequency measurements for sleep apnea assessment using a multi-sensor monitoring device
Florent Baty (St. Gallen, Switzerland), Maximilian Boesch, Frederik Bauer, Simon Annaheim, Martin Brutsche
**Sleep parameter comparison between mild and difficult-to-treat asthma using accelerometry**
Varun Sharma (Glasgow, United Kingdom), Helen C Ricketts, Femke Steffensen, Anna Goodfellow, Duncan S Buchan, Douglas C Cowan

**GENE POLYMORPHISMS OF 5-HYDROXYTRYPTAMINE (SEROTONIN) RECEPTOR 2A (HTR2A) 1438G/A AND NADPH OXIDASE (P22PHOX) A930G IN OBSTRUCTIVE SLEEP APNOEA PATIENTS**
Mehtem Sezai Taşbakan (Izmir, Turkey), Ozen K. Basoglu, Huseyin Onay, Ferda Ozkinay

**Sleep apnea syndrome and erectile dysfunction: A possible risk factor?**
Warda Jelassi (TUNIS, Tunisia), Islam Mejri Ep Ajili, Souhail Ben Taher, Selsalab Doussami, Samira Mhamdi, Chiraz Aichaouia, Zied Moatemri

**Use of nocturnal pulsioximetry (POX) to assess the control of CPAP therapy in patients with obstructive sleeping apnea (OSA)**
Isabel Muñoz Ramirez (Seville, Spain), Raquel De Andres David, Aureliano Ais Daza, Francisca Montoro Ballesteros, Alfonso Marin Andreu, Aurelio Arnedillo Muñoz

**Impact of shift work on quality of sleep in healthcare workers**
Sarra Ben Sassi (ariana, Tunisia), Sourour Abid, Mariem Friha, Ons Badri, Rahma Gargouri, Sameh Msaad, Hajeur Ayedi

**Position trainer device for Obstructive Sleep Apnea.**
Jorge Rodriguez Sanz (ZARAGOZA (SPAIN), Spain), Laura Torralba García, Maria Aguado Agudo, Maria Teresa Martin Carpi

**Anxiety and depression in patients with obstructive sleep apnea**
Imen Touil (Mahdia, Tunisia), Imen Touil, Braham Yosra, Omrane Amira, Boujneh Soumaya, Bouchareb Soumaya, Hamdi Amani, Zaraa Eya, Belhadj Ines, Khalafallah Taoufik, Boussoffara Leila, Knani Jalel, Keskes Boudawara Nadia

**Use of nasal symptoms in patients with obstructive sleep apnoea and the association with continuous positive airway pressure**
Kalliirroi Lamprou (Oxford, United Kingdom), Konstantinos Chaidas, Amberley Munnings, John Stradling, Annabel Nickol

**Lung function and sleep disorder in general population: RHINESA study**
Rajesh Shigdel (Bergen, Norway), Elin H Thorarinsdottir, Nils Oskar Jögi, Leopoldo Palacios Gómez, Chamara V. Senaratna, Andrei Malinovschi, Þórarinn Gíslason, Randi Jacobsen Bertelsen

**Sleep disorders in healthcare workers**
Améni Nâaroura (Tunis, Tunisia), Soumaya Ben Sâad, Amani Ben Mansour, Azza Slim, Hafaoua Daghfous, Fatma Tritar

**TP-8 in thematic poster**
Session 246 08:30 - 09:30

**Thematic poster: COPD management: comorbidities, cohorts and real-world studies**

**Disease(s):** Airway diseases

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

**Chairs:** Carolina Maria Gotera Rivera (Madrid, Spain), Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)

**PA2102 Changes in critical inhaler technique errors in inhaled COPD treatment – a one-year follow-up study in Sweden**
Johanna Sulku (Gävle, Sweden), Christer Janson, Håkan Melhus, Björn Stållberg, Kristina Bröms, Marieann Högman, Karin Lisspers, Andrei Malinovschi, Elisabet Nielsen

**PA2103 Exacerbation outcome definitions in clinical trials of COPD interventions: a systematic review**
Thomas Bradbury (Newtown, Australia), Sachin Ananth, Sikandar Hussaini, Alexander Mathioudakis, Rebecca Nguyen, Christine Jenkins

**PA2104 Clinically important deterioration in patients with COPD: a post-hoc analysis of ETHOS**
John R Hurst (London, United Kingdom), Dave Singh, Fernando J Martinez, Meilan Han, Patrick Darken, Mehul Patel

**Estimation and visual representation of hospital costs after an acute exacerbation of COPD. COHERENT-COPD study.**
María Teresa Tejedor Ortiz (Madrid, Spain), Joaquín Sánchez-Covisa Hernández, Clara Goñi Echeverría, Héctor Bueno Zamora, José Luis Bernal Sobrino, Mónica Juarez Campo, Maria Piñeiro Roncal, Gema Maria Siesto López, Carlos José Alvarez Martinez

**PA2105 Effect of a technology-enabled respiratory in-reach service on reduction in the inappropriate use of oral corticosteroids (OCS) for suspected Airways Disease exacerbations (ADE) in an acute general hospital**
Paul Ellis (Solihull, United Kingdom), Alain Al Helou, Gajan Chellappah, Kayleigh Jones, Adel Mansur, Rahul Mukherjee

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**SESSION 246**

**08:30 - 09:30**

**TP-8 in thematic poster**

**Thematic poster: COPD management: comorbidities, cohorts and real-world studies**

**Disease(s):** Airway diseases

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

**Chairs:** Carolina Maria Gotera Rivera (Madrid, Spain), Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)

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Johanna Sulku (Gävle, Sweden), Christer Janson, Håkan Melhus, Björn Stållberg, Kristina Bröms, Marieann Högman, Karin Lisspers, Andrei Malinovschi, Elisabet Nielsen

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**PA2105 Effect of a technology-enabled respiratory in-reach service on reduction in the inappropriate use of oral corticosteroids (OCS) for suspected Airways Disease exacerbations (ADE) in an acute general hospital**
Paul Ellis (Solihull, United Kingdom), Alain Al Helou, Gajan Chellappah, Kayleigh Jones, Adel Mansur, Rahul Mukherjee
PA2107  Clinical efficacy of anemia of chronic disease treatment in patients with COPD.  
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Anna Bondarkova, Lyudmyla Prystupa

PA2108  Time trends (2012-2020) and sex differences for influenza vaccination uptake among individuals with chronic obstructive pulmonary disease in Spain.  
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Marta Fuentes Alonso, Cristhian Alonso Correa Gutiérrez, Cristina Sanchez Gutierrez, Gabriella Manzanares Cavi, Manuel Mor Martinez, Luis Puente Maestu, Javier De Miguel Diez

PA2109  Reduced exacerbations following switch from multiple-inhaler to once-daily single-inhaler triple therapy in COPD patients in a real-world primary care setting in England  
Kieran Rothnie (London, United Kingdom), Robin Wood, Alexandros Czira, Vicky Banks, Lucinda Camidge, Olivia Massey, Monica Seif, Chris Compton, Raj Sharma, Afisi Ismaila

PA2110  Identifying risk of first COPD exacerbation in COPD patients in GOLD group A/B in the UK  
Kieran Rothnie (London, United Kingdom), Steven Gelwicks, Beade Numbere, Yifel Lu, Raj Sharma, Chris Compton, Afisi Ismaila

PA2111  COPD as a risk factor for Coronary Artery Disease (CAD): Overview of 10-year atherosclerotic cardiovascular disease (ASCVD) risk assessment  
Daniela Bukloska Ilievska (Skopje, North Macedonia), Jordan Minov, Nade Kochovska Kamechevska, Ivana Mickovski, Taner Hasan, Marjan Baloski, Radmila Neshovska, Natasha Nedeska Minova, Biljana Prgovska Veljanova, Daniela Doneva, Vanche Trajkovska, Magdalena Simeonova, Jane Bushe

PA2112  Utilization of exacerbation-related drugs by COPD patients with Arg16Gly polymorphism of ADRB2 gene  
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yulia Smereka, Dmytro Dmytryiev, Kateryna Dmytryieva

PA2113  Compliance to pharmacological therapy of COPD patients with skeletal muscle dysfunction  
Vitalii Poberezhets (Vinnytsia, Ukraine), Anna Demchuk, Yuriy Mostovoy

PA2114  Risk factors and guideline adherence of empiric antibiotic use in community-acquired pneumonia  
Sergi Pascual Guardia (Barcelona, Spain), Judith Marin-Corral, Francesco Amati, Stefano Aliberti, Manuela Carugati, Oriol Sibila, Francisco Sanz, Alejandro Rodriguez, Giovanni Sotgiu, Pedro J. Marcos, Marcos I. Restrepo, On Behalf Of Glimp Investigators

PA2115  The role of physical rehabilitation in the treatment of COPD  
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Galyyna Korzh, Nadiia Korzh, Kseniia Ostrovska

PA2116  A 7-year retrospective evaluation of incidence of exacerbations in COPD patients pre and post pneumococcal vaccination. Results from RETRIEVE study.  
Efthymia Papadopoulou (Thessaloniki, Greece), Maria Bertoli, Alexandros Ginis, Stavros Tryfon

PA2117  Association between sub-optimal medication adherence and risk of COPD diagnosis in patients with physician-diagnosed asthma: A propensity score-based analysis  
Michael Asamoah-Boaheng (St John's, Canada), Jamie Farrell, Kwadwo Osei Bonsu, Alwell Oyet, William K Midodzi

PA2118  Rescue medication use in patients with chronic obstructive pulmonary disease receiving umclidinium/vilanterol versus tiotropium bromide/olodaterol in England  
Gema Requena (Brentford, United Kingdom), Alexandros Czira, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila

PA2119  Comparative effectiveness of umclidinium/vilanterol versus indacaterol/glycopyrronium on acute exacerbations in patients with chronic obstructive pulmonary disease in England  
Gema Requena (Brentford, United Kingdom), Alexandros Czira, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila

PA2120  A 7-year retrospective evaluation of lung function in COPD patients pre and post pneumococcal vaccination. Results from RETRIEVE study.  
Efthymia Papadopoulou (Thessaloniki, Greece), Maria Bertoli, Alexandros Ginis, Stavros Tryfon

PA2121  Nebulizer use in tobacco-exposed SPIROMICS participants with or at risk of COPD  
Jane Fazio (Los Angeles, United States), Andrew Hong, Daniela Markovic, R. Graham Barr, Eugene Bleecker, Russell P. Bowler, David Couper, Jeffrey L. Curtis, Brad Drummond, Spyridon Fortis, Meilan Han, Lindsay Holland, Victor Kim, Fernando J. Martinez, Jill Ohar, Victor E. Ortega, Robert Paine, Michael Wells, Prescott Woodruff, Russell Buhr, Christopher B. Cooper, Donald Tashkin, Igor Barjaktarevic
Thematic poster: Studies targeting IL-5 pathways in asthma

**Disease(s):** Airway diseases

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

**Chairs:** Celeste Michala Porsbjerg (Copenhagen, Denmark), Juan José Nieto Fontarigo (Santiago De Compostela, Spain)

**PA2122** Temporal trend of benralizumab safety profile in severe asthma: a cumulative meta-analysis
Luigino Calzetta (Roma (RM), Italy), Josuel Ora, Francesco Cavalli, Rossella Laitano, Paola Rogliani

**PA2123** Reduction in work and activity impairment within 6 months of benralizumab initiation in Canadians with severe eosinophilic asthma
Erika Penz (Saskatoon, Canada), Sheena Kayaniyil, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Stephen G Noorduyn

**PA2124** Influence of baseline FEV1 on improvement in severe eosinophilic asthma with mepolizumab
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Marina Blanco-Aparicio, Ana Gómez-Bastero, Gregorio Soto-Campos, David Bañas Conejero, M Guadalupe Sánchez-Herrero

**PA2125** REDES study: Mepolizumab is effective in patients with severe eosinophilic asthma and comorbid NP
Ebymar Arismendi Nunez (Vilassar de Dalt, Barcelona, Spain), Carolina Cisneros, Marina Blanco-Aparicio, David Bañas Conejero, Abraham L. Moure, M Guadalupe Sánchez-Herrero

**PA2126** Clinical effectiveness of benralizumab in clinical practice in Spain.
Pilar Ausin Herrero (Barcelona, Spain), Alberto Levy, Alicia Padilla Gato, Isabel Moya Carmona, Elisa Luzón Alonso, Jesús Sánchez Tena, Gustavo Resler

**PA2127** Arthritis, a new adverse effect of anti-IL5 biologics in severe asthma patients?

**PA2128** Sustained improvement of asthma control over 6 months of benralizumab treatment in Canadians with severe asthma
Sheena Kayaniyil (Mississauga, Canada), Stephen Noorduyn (Mississauga, Canada), Stephen G Noorduyn, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Stephen G Noorduyn

**PA2129** Benralizumab continues to improve quality of life after 6 months of treatment in Canadians with severe eosinophilic asthma
Erika Penz (Saskatoon, Canada), Sheena Kayaniyil, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Stephen G Noorduyn

**PA2130** First Outcomes of Anti-IL5 Biological Therapy in Patients with Severe Asthma in Croatia
Dina Rnjak (Zagreb, Croatia), Anamarija Stajduhar, Sanja Popović-Golle, Nikola Ferara, Iva Jelavić, Marina Lampalo

**PA2131** Effects of benralizumab in patients affected by severe eosinophilic asthma and chronic rhinosinusitis with nasal polyps
Carla Santomasi (Bari, Italy), Enrico Buonamico, Silvano Dragonieri, Ernesto Lulaj, Leonardo Maselli, Ilaria Iorillo, Sara Piccinno, Alessandro Capuano, Madiha Ahroud, Ilaria Dei Lazzaretti, Lucia Iannuzzi, Giovanna Elisiana Carpagnano

**PA2132** Clinically relevant benefit of mepolizumab and benralizumab in asthma following EGPA in real-life settings
Charlène Desaintjean (Lyon, France), Mouhamad Nasser, Kais Ahmad, Julie Traclat, Ségolène Turquier, Jean-Charles Gérant, Vincent Cottin

**PA2133** Dual Biologic therapy- is it safe in patients with concomitant severe asthma and other immune-mediated diseases?
Maria Eugenia Navarrete Rouco (Barcelona (Barcelona), Spain), Nuria Carballo, Irina Bobolea, Eva Martínez-Moragón, Silvia Pascual-Erquicia, Moises Labrador, Miguel Angel Rancionero, Pilar Ausin

**PA2134** Clinical improvement in REDES study stratified by blood eosinophil reduction after mepolizumab treatment
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Rocío Díaz-Campos, Tamara Hermida-Valverde, Ebymar Arismendi, David Bañas Conejero, M Guadalupe Sánchez-Herrero

**PA2135** Real world use of mepolizumab in Severe Asthma according to smoking status
Juan Luis García Rivero (Argoños (Cantabria), Spain), Eva Martínez-Moragón, Celia Pinedo, Nuria Marina, David Bañas Conejero, M Guadalupe Sánchez-Herrero
Real-life biomarker response to anti-IL5 and anti-IgE therapies in severe asthma patients
John Townend (Norwich, United Kingdom), Sarah Burkill, Celeste M. Porsbjerg, Arnaud Bourdin, Trung N Tran, Neil Martin, Rohit Kattial, Peter Barker, Michael E Wechsler, Jorge Maspero, Sinthia Bosnic-Anticevich, Li Ping Chung, Gregory Katsoulotos, George C Christoff, Todor A Popov, Mohsen Sadatsafavi, Carlos A Torres-Duque, Charlotte Úlrik, Karin Dahl Assing, Susanne Hansen, Alan Altraja, Lauri A Lehtimaki, Nikolaos G Papadopoulos, Konstantinos Kostikas, Sundeep Salví, Richard W Costello, Piggioni Francesca, Takashi Iwanaga, Chin Kook Rhee, Mona Al-Ahmad, Desiree Larenas-Linnemann, Joao A Fonseca, Rita Amaral, Kjell Alving, Riyad Al-Lehebi, Luis Perez De-Llano, Bruce Kirenga, Ming-Ju Tsai, Bassam Mahboub, Paul E Pfeffer, William Henléy, Yang Liu, Juntao Lyu, Celine Goh, Thendral Uthaman, David Price

Cost-effectiveness of benralizumab in patients with uncontrolled severe eosinophilic asthma in Spain
Maria Mareque (Madrid, Spain), Mónica Climente, Eva Martínez-Moragon, Alicia Padilla, Itziar Oyagüéz, Carolina Touron, Covadonga Torres

Effect of biological therapies on the rate of exacerbations in patients with severe eosinophilic asthma
Antonio Menéndez (Granada, Spain), Susana Rojo-Tolosa, Cristina Pérez-Ramírez, Jose Antonio Sánchez-Martínez, María Victoria González-Gutiérrez, Alberto Jiménez-Morales, Concepción Morales-Garcia

Benralizumab leads to sustained asthma control improvement after 1 year in real-life severe asthmatics.
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Wolfgang Pohl

Response to reslizumab in a real-life setting: biologic-naive asthma patients versus switchers.
Luis Pérez De Llano (Lugo, Spain), Bg Cosío, Ignacio Lobato Astiárraga, Gregorio Soto Campos, Miguel Ángel Alonso Tejedor, Nuria Marina Malanda, Alicia Padilla Galo, Isabel Urrutia Landa, Javier Michel De La Rosa, Ismael García Moguel

Impact of biological therapy on cumulative corticosteroid dose reduction in patients with severe asthma.
David Rodríguez Plaza (Barcelona (Barcelona), Spain), Mireia Vivas Roca, Héctor Cabrérizo Carreño, Blanca Gómez Martínez, Salud Santos Pérez, Mariana Muñoz-Esquerrera

News from the Studio: Day 2 highlights not to miss
Chairs: Thierry Troosters (Leuven, Belgium), Silke Meiners (Sülfeld, Germany)

Introduction
All Speakers

Diagnostic bronchoscopic procedures: Cryo for ILD
Claudia Ravaglia (Forlì, Italy)

Diagnostic bronchoscopic procedures: Bronchoscopic Access to peripheral lesions using conebeam + radial ebus
Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

Diagnostic bronchoscopic procedures: Combined EBUS and EUS-B for lung cancer staging
Artur Szułkowski (Kraków, Poland)

Diagnostic bronchoscopic procedures: Cryo – TBNA for lung and mediastinal diagnosis
Felix J.F. Herth (Heidelberg, Germany)

Q&A
All Speakers

Break
All Speakers
### 11:00 - 11:15
#### Therapeutic bronchoscopic/pleural procedures: Airway recanalization for central airway obstruction
Jiri Votruba (Prague, Czech Republic)

### 11:15 - 11:30
#### Therapeutic bronchoscopic/pleural procedures: Radiofrequent ablation for bronchoscopic lungtumor treatment
Judith Brock (Heidelberg, Germany)

### 11:30 - 11:45
#### Therapeutic bronchoscopic/pleural procedures: One stop Rapid Pleurodesis - Thoracoscopic Talc Poudrage for malignant pleural effusions
Mohammed Munavvar (Preston (Lancashire), United Kingdom)

### 11:45 - 12:00
#### Therapeutic bronchoscopic/pleural procedures: Bronchial thermoplasty and Optical Coherence Tomography for severe asthma
Peter I. Bonta (Amsterdam, Netherlands)

### 12:00 - Q&A
All Speakers

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### 8A - live streamed  
**Session 250  09:30 - 11:00**

**State of the art session: Interstitial lung diseases**

**Trends, controversies and open questions in ILD**

**Aims:** to present significant insights gained recently about many different forms of rare lung diseases, i.e cystic lung diseases (lymphangioleiomyomatosis), fibrosing lung diseases. To discuss new treatment options that have been licensed for different pulmonary complications of autoimmune diseases, which commonly affect the lungs; to provide an update about drug-induced lung diseases that are an important differential diagnosis of ILDs; to discuss challenges in diagnosis and treatment; to emphasize the importance of acute exacerbations which are one of the most debilitating complications of mainly fibrosing ILDs and are a neglected field.

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

**Method(s):** Imaging  Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist

**Chairs:** Katerina Antoniou (Heraklion, Greece), Karen Moor (Rotterdam, Netherlands), Sergio Harari (Milano (MI), Italy)

**09:30**

#### New trends in cystic lung diseases
Cormac McCarthy (Dublin 4, Ireland)

**09:45**

#### Acute exacerbations of fibrosing ILDs: controversies and new insights
Michael Kreuter (Heidelberg, Germany)

**10:00**

#### Pulmonary manifestations in autoimmune diseases
Elisabeth Bendstrup (Aarhus N, Denmark)

**10:15**

#### Drug-induced lung diseases: past, present and future
Philippe Camus (Dijon, France)

**10:30**

#### Discussion and Q&A
All Speakers

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### 8B - live streamed  
**Session 251  09:30 - 11:00**

**Clinical trials session: ALERT 2: Digital and paediatric**

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Anita Simonds (London, United Kingdom), Ayşe Arzu Yorgancıoğlu (Konak, Turkey)

**Discussants:** Andrea Aliverti (Milan, Italy), David Drummond (Paris, France)

**RCT2160**

Late Breaking Abstract - Clinically relevant effects on physical activity with web-based self-management support in people with COPD: a randomized controlled trial
André Nyberg (Umeå, Sweden), Tobias Stenlund, Åsa Karlsson, Per Liv, Karin Wadell
Effect of an immediate, remote smoking cessation intervention vs usual care among participants enrolled in lung health check: QuLIT2 study.

Parris Williams (London, United Kingdom), Keir Philip, Navjot Kaur-Gill, Deirdre Flannery, Sara Buttery, Emily Bartlett, Anand Devaraj, Jamie Addis, Samuel Kemp, Michelle Chen, Jane Derbyshire, Katie Morris, Anthony Laverty, Nicholas Hopkinson

RCT Abstract - Effect of pharmacy-supported digital medicine program on asthma control

Luca Ponti (Milan, Italy), Cristina Onnis, Sebastian Ferri, Job Van Der Palen, John Pritchard, Mauro Citterio, Giuseppe Recchia, Luca Ponti, Martijn Grinovero

Wrap-up by discussant and discussion

Andrea Aliverti (Milan, Italy)

Antibiotic use during severe RSV bronchiolitis may increase subsequent recurrent wheeze risk


Late Breaking Abstract - Inhaled corticosteroids to improve lung function in survivors of very preterm birth: PICSIRCT

Shannon Simpson (Perth (WA), Australia), Rhea Urs, Denby Evans, Tiffany Bradshaw, Rachel Foong, Elizabeth Smith, James Gibbons, Andrew Wilson

Wrap-up by discussant and discussion

David Drummond (Paris, France)

Closing remarks

All Speakers

8C - live streamed
Session 252 09:30 - 11:00
Symposium: Treatment of acute respiratory failure in chronic obstructive pulmonary disease patients

Aims: to provide an update on and discuss existing and new treatment options for acute respiratory failure due to chronic obstructive pulmonary disease (COPD) exacerbations; to discuss long-term outcomes and treatment options to change the long-term consequences of severe COPD exacerbations.

Disease(s): airway diseases, respiratory critical care

Method(s): palliative care, respiratory intensive care

Tag(s): clinical

Target audience: adult pulmonologist/clinician, clinical researcher, medical technical assistant, nurse, respiratory critical care physician, respiratory physiotherapist, journalist

Chairs: Leo Heunks (Amsterdam, Netherlands), Miriam Barrechedure Fernandez (Barcelona, Spain)

09:30 Evidence-based recommendations for non-invasive ventilation in patients with acute COPD exacerbations
Mariëlle L. Duiverman (Groningen, Netherlands)

09:45 Nasal high-flow therapy for acute COPD exacerbations: the new kid on the block
Paolo Navalesi (Pavia, Italy)

10:00 Invasive mechanical ventilation and extracorporeal CO2 removal in patients with acute COPD exacerbations
Christian Karagiannidis (Cologne, Germany)

10:15 Long-term outcomes after severe COPD exacerbations
Rebecca D'Cruz (London, United Kingdom)

10:30 Discussion and Q&A
All Speakers

8G - live streamed
Session 253 09:30 - 11:00
Symposium: Dangers in the air we breathe
Aims: to present recent scientific highlights about the effects of airborne pollution factors, especially allergens, diesel exhaust particles, microplastics and microtextiles, on the lungs; to compare their effects in children and adults; to discuss the biology of allergen-induced lung disease; to describe biological sex differences in response to exposure to these factors. The dangers of airborne environmental factors to the human lung are of great and diverse interest due to the current strong international focus on climate change and air pollution.

Disease(s): Airway diseases  Pediatric respiratory diseases
Method(s): Cell and molecular biology  Epidemiology  Public health
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Scientist (basic, translational)

Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Catherine Greene (Dublin 9, Ireland)

09:30  Overview of environmental factors affecting allergic airway disease
Cezmi A. Akdis (Davos, Switzerland)

09:45  Smoke, smog and aeroallergens: effects on children and adults
Mary Rice (Boston, United States)

10:00  Microplastics and microfibres in the air we breathe
Barbro N. Melgert (Groningen, Netherlands)

10:15  Effects of inhaled diesel exhaust particles on airway inflammation
Neeloffer Mookherjee (Winnipeg (MB), Canada)

10:30  Discussion and Q&A
All Speakers

8H - live streamed  Session 254  09:30 - 11:00

Hot topics: Bronchiectasis: how recent advances in research can support personalised medicine in practice

From research to personalised medicine in bronchiectasis

Aims: To provide the most recent advances in the understanding of bronchiectasis and in potential applications in clinical practice; to improve the clinical management of the disease through a personalised medicine approach.

Disease(s): Respiratory infections
Method(s): Cell and molecular biology  Imaging  Pulmonary rehabilitation
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Patient, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

Chairs: Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Sassari, Italy)

09:30  The role of microbiome analysis in the pathophysiology and clinical management of bronchiectasis
Sanjay Haresh Chotirmall (Singapore, Singapore)

09:45  Bronchiectasis: is airways inflammation more important to tag than infections?
James D. Chalmers (Dundee (Angus), United Kingdom)

10:00  How technological innovation can support physicians regarding decision making in bronchiectasis
Harm Tiddens (Rotterdam, Netherlands)

10:15  What we need to build a multidisciplinary team for the optimal management of bronchiectasis
Stefano Aliberti (Milano (MI), Italy)

10:30  Discussion and Q&A
All Speakers

8N  Session 255  09:45 - 11:00

Oral presentation: Chronic and acute lung infections in children

Disease(s): Airway diseases
Method(s): General respiratory patient care  Surgery  Cell and molecular biology  Public health  Endoscopy and interventional pulmonology  Pulmonary function testing  Epidemiology

Chairs: Marijke Proesmans (Leuven, Belgium), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)
**Mini symposium: The two sides of every story: New translational insights into the heterogeneity of the obstructive sleep apnea effect and its treatment**

Aims: to describe the latest evidence supporting the heterogeneous effects of OSA and its treatment in different pathologies associated with this sleep breathing disorder; to identify the heterogeneous effects of OSA and its treatment with CPAP, and its relationship with the genetic background of the patient; to explain the latest the potential dual effect of OSA as a deleterious disorder or potential promoter of protective mechanisms.

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

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

**Tag(s):** Translational

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

**Chairs:** Manuel Sanchez De La Torre (Lleida, Spain), Athanasia Pataka (Thessaloniki, Greece)

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<tr>
<th>Time</th>
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<tr>
<td>09:45</td>
<td>Differential effects of OSA and the response to its treatment: role of the genetic background</td>
<td>Olivia Veatch (Kansas City, United States)</td>
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<td>10:00</td>
<td>Potential dual effect of OSA on ischemic myocardium: from animal models to clinical data</td>
<td>Claire Arnaud (Grenoble, France)</td>
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<td>10:15</td>
<td>From basic to clinical science in the relationship between OSA and cancer</td>
<td>Isaac Almendros Lopez (Barcelona, Spain)</td>
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Session 257

Oral presentation: Pearls in airway immunology: from mouse to man

Disease(s): Airway diseases

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

Chairs: Marco Idzko (Wien, Austria), Lena Uller (Lund, Sweden)

Late Breaking Abstract - DESTINATION: tezepelumab long-term safety and efficacy versus placebo in patients with severe, uncontrolled asthma

Andrew Menzies-Gow (London, United Kingdom), Michael E. Wechsler, Christopher E. Brightling, Stephanie Korn, Artur Bednarczyk, Sandhia Pomarambil, Gun Almqvist, Kaitlyn Lawson, Scott Caveney, Karin Bowen, Gene Colice

Unravelling the role of miR-223 in the regulation of pollutant-aggravated allergic airway inflammation

Tania Maes (Ghent, Belgium), Mirjam Roffel, Annelies Bontinck, Joyce De Volder, Corry-Anke Brandsma, Sonja Skevin, Filip Van Nieuwerburgh, Guy Joos, Guy Brusselle, Ken Bracke, Maarten Van Den Berge, Irene Heijink

LSC - 2022 - G-CSF drives pathophysiology of RV-induced allergic asthma exacerbations by potentiating neutrophilic inflammation and ILC2 function

Nicoletta Bruno (London, United Kingdom), Aran Singanayagam, Hugo A. Farne, Julia Aniscenko, Nicholas Glanville, Chloé J. Pyle, Dhiren F. Patel, Sebastian L. Johnston, Robert J. Snelgrove

Nasal polyposis in severe asthma is associated with airway autoimmunity towards eosinophils and macrophages

Lise Lotte Eriksen (Copenhagen NV, Denmark), Anna Von Bülow, Laurits Frossing, Morten Hvidtfeldt, Ditte Kjersgaard Klein, Manali Mukherjee, Parameswaran Nair, Celeste Porshbjerg

IL-6 high asthma is associated to a downmodulation of several exosomal microRNAs

Sara Vázquez-Mera (Santiago de Compostela, Spain), Pablo Miguéns-Suárez, Laura Martelo-Vidal, Juan José Nieto-Fontarigo, Coral González-Fernández, Uxío Calvo-Alvarez, Ana Faraldo-Garcia, Christian Calvo-Henriquez, Paula Méndez-Brea, Francisco-Javier González-Barea, Francisco Javier Salgado-Castro

Reduced ACE2 and TMPRSS2 immunopositive bronchial cells in asthmatics after inhaled allergen challenge.

Christiane Whetstone (Hamilton, Canada), Maral Ranjbar, Nadia Alsaji, Dhuha Al-Sajee, Lesley Wiltshire, Jennifer Wattie, Paul O’Byrne, Ruth Cusack, Roma Sehmi, Gail Gauvreau

LSC - 2022 - Distinct metabolic reprogramming of airway epithelium in asthma in response to infection with rhinovirus

Urszula Radzikowska (Davos Platz, Switzerland), Mengting Huang (Davos Wolfgang, Switzerland), Mei Ding, Urszula Radzikowska, Juan Rodriguez-Coira, Nino Stocker, Ge Tan, Anja Heider, Sebastian Johnston, Cezmi A. Akdis, Milena Sokolowska

Effect of exercise training on Treg cell response in severe COPD individuals: a randomized and controlled trial

Fernanda Degobbni Tenorio Quirino dos Santos Lopes (São Paulo (SP), Brazil), Juliana Tiyaki Ito, Luana M Oliveira, Luan V Alves, Rafaela F Xavier, Maria N Sato, Celso R F Carvalho, Iolanda F L C Tiberio

Differences in Innate Lymphoid Cell profiles between COPD, asthma, smoking controls and non-smoking healthy controls

Cathelijne van Zelst (Rotterdam, Netherlands), Johannes In ’T Veen, Geertje De Boer, Marjolein De Bruijn, Menno Van Nimwegen, Esme Van Der Ploeg, Lisette Krabbendam, Denise Van Uden, Ralph Stadhouders, Gerdien Tramper-Stranders, Gert-Jan Braunstahl, Rudi Hendriks

Late Breaking Abstract - IL-23 contributes to Particulate Matter induced allergic asthma in neonatal mice

Hyun Seung Lee (Seoul, Republic of Korea), Heung-Woo Park, Kyoung-Hee Lee

Discussion

All Speakers
**Aims**: to contrast and differentiate cell-specific changes and cell-cell interdependency in the pathogenesis of bronchopulmonary dysplasia (BPD) compared with normal lung development; to define the evolution of lung cell heterogeneity and transcriptomic diversity at single-cell resolution across late lung development; to differentiate phenotypes and endotypes of BPD using transcriptomic approaches together with clinical characteristics; to contrast individual cell types and their proportion in phenotypes of BPD using scRNASeq; to identify cell-cell communication and interdependency by combining systems biology with phenotypes of BPD; to describe new preventive and therapeutic strategies with cell-targeted approaches; and to decipher innovative avenues to protect and regenerate lungs through integration of transcriptomics, proteomics and individual risk. This symposium will not only compare new cellular and molecular insights into the origins of different phenotypes of BPD, but also contrast cell-cell interaction and interdependency in healthy lungs and phenotypes of BPD. Beyond the novel mechanistic insight, the speakers will also describe exciting new therapeutic strategies such as cell-targeted therapy and how the use of combined systems biology will drive precision medicine.

**Disease(s)**: Paediatric respiratory diseases, Pulmonary vascular diseases

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

**Tag(s)**: Translational

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

**Chairs**: Rory Morty (Heidelberg, Germany), Niki Ubags (Epalinges, Switzerland)

09:45 **Phenotypic diversity of the lung vasculature during a period of rapid postnatal growth**
Cristina M. Alvira (Palo Alto, Stanford, United States)

09:59 **Intercellular communication of the alveolar niche in postnatal lung health and bronchopulmonary dysplasia**
Miguel Angel Alejandro Alcázar (Köln, Germany)

10:13 **Placental impact on the developing fetal lung and phenotypes of bronchopulmonary dysplasia**
Elizabeth Taglauer (Boston, United States)

10:27 **Novel therapeutic cell-based strategies for neonatal chronic lung disease: pros and cons**
Bernard Thébaud (Ottawa (ON), Canada)

10:41 **Discussion and Q&A**
All Speakers

**10:30-11:15**
**INDUSTRY SKILLS LAB WORKSHOP**
**SEE PAGE 1**

**8D**
**Session 261** 10:40 - 13:00

**Skills workshop: SW5 Cardiopulmonary rehabilitation beyond the basics**

**Aims**: To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach; to describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity; to describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment; and to describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.

**Disease(s)**: Airway diseases

**Method(s)**: Pulmonary rehabilitation

**Tag(s)**: Clinical

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

**Chairs**: Frits M.E. Franssen (Horn, Netherlands)

10:40 **Introduction** 2218

10:40 **Physical activity assessment and intervention**
Helen Demeyer (Leuven, Belgium) 2219

10:40 **Neuromuscular electrical stimulation**
Maurice J.H. Sillen (Horn, Netherlands) 2220

10:40 **Frailty assessment and intervention**
Roberto Benzo (Rochester, United States) 2221

10:40 **Mindfulness interventions during cardiopulmonary rehabilitation**
Alice Malpass (Bristol, United Kingdom) 2222
Clinical cases: Lungs on fire: Interstitial lung diseases?

**Aims:** To facilitate the presentation of 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

**Tag(s):** Clinical

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

**Chairs:** Katerina Antoniou (Heraklion, Greece), Sergio Harari (Milano (MI), Italy), Michael Kreuter (Heidelberg, Germany)

**Discussants:** Maria Molina Molina (Barcelona, Spain), Paolo Spagnolo (Padova (PD), Italy)

**11:15**
Case 1 incl. panel discussion and Q&A - Author: D. M. Spitaleri (Italy)
Maria Molina Molina (Barcelona, Spain)

**11:37**
Case 2 incl. panel discussion and Q&A - Author K. Kumar (India)
Paolo Spagnolo (Padova (PD), Italy)

**11:59**
Case 3 incl. panel discussion and Q&A - Author: M. J. Fröhlich (Germany)
Maria Molina Molina (Barcelona, Spain)

**12:21**
Case 4 incl. panel discussion and Q&A - Author: I. Dimiene (Lithuania)
Paolo Spagnolo (Padova (PD), Italy)

Symposium: How a crisis impacts health care providers and patients

**Congress chair award session**

**Aims:** This congress chair session aims to discuss the impact of health crisis such as the war in Ukraine on health care providers (in the frontline and those taking care of refugees) and on patients. It will also illustrate how international organizations can support during health crisis.

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

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

**Tag(s):** Clinical

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

**Chairs:** Anita Simonds (London, United Kingdom), Ayşe Arzu Yorgancıoğlu (Konak, Turkey)

**11:15**
The role of WHO during (regional and global) health crises.
Hans Henri P. Kluge (Copenhagen, Denmark)

**11:30**
How a war changes respiratory medicine. Reflections as a health care provider in Ukraine.
Vitalii Poberezhets (Vinnytsia, Ukraine)

**11:45**
Being a patient at (or away from depending on the patient) the frontline. My reflections as a patient
Olena Yurchenko (Ukraine)

**11:50**
Impact of a war on the organization of respiratory health care
Yurii Feshchenko (Kyiv, Ukraine)

**11:55**
Respiratory Healthcare and challenges in caring for refugees

**12:10**
Supporting frontline respiratory teams in 2022 - an ERS perspective
Joanna Chorostowska-Wynimko (Warsaw, Poland)

**12:20**
Discussion and Q&A
All Speakers
Journal session: Acute respiratory distress syndrome: the path to precision medicine
A joint ERS/Lancet session

Aims: To present the most recent papers commissioned by The Lancet and The Lancet Respiratory Medicine, to provide insights into the pathophysiology and phenotypes of acute respiratory distress syndrome (ARDS), to review current approaches for diagnosis and management of paediatric and adult patients, to consider therapeutic options in development for this heterogeneous syndrome, to discuss the needs of patients with long-term sequelae of ARDS and to set out future directions for research and clinical practice. This forward-looking session will provide new insights into mechanisms and management for both nonspecialists and specialists, with a focus on the goal of precision medicine.

Disease(s): Paediatric respiratory diseases   Respiratory critical care
Method(s): Cell and molecular biology   Physiology   Respiratory intensive care
Tag(s): Clinical

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

Chairs: Leo Heunks (Amsterdam, Netherlands), Rebecca Craven (London, United Kingdom), Miriam Barrecheguren Fernandez (Barcelona, Spain)

11:15 Causes, pathophysiology, and phenotypes of acute respiratory distress syndrome
Lorraine Ware (Nashville, United States)  2234

11:30 Acute respiratory distress syndrome in adults: diagnosis, management, outcomes and long-term sequelae
Danny Mcauley (Belfast (Belfast), United Kingdom)  2235

11:45 Paediatric acute respiratory distress syndrome: developing management strategies to improve outcomes
Martin Kneyber (Groningen, Netherlands)  2236

12:00 Opportunities for improved clinical trial designs in acute respiratory distress syndrome
Michael A. Matthay (San Francisco, United States)  2237

12:15 Discussion and Q&A
All Speakers  2238

Hot topics: The Human Lung Cell Atlas: a universal reference for all respiratory scientists
The closing symposium of the discovAIR H2020 project

Aims: To empower the participants to use the Human Lung Cell Atlas for their own translational or basic research. To achieve this, the hot topic symposium at ERS2022 will introduce the Human Lung Cell Atlas, provide examples of the use of the Atlas, and illustrate the value of the Atlas for basic and translational research into lung diseases. After this symposium, the participants will be able to find the Human Lung Cell Atlas, to access the Atlas for gene- or cell-type-oriented queries for their own research activities, to use the Atlas for harmonised cell-type annotation of their own datasets and to contrast their own data from lung disease samples to the universal healthy reference present in the Atlas.

Disease(s): Airway diseases   Interstitial lung diseases   Paediatric respiratory diseases
Method(s): Cell and molecular biology   Physiology
Tag(s): Basic science

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

Chairs: Catherine Greene (Dublin 9, Ireland), Charlotte Suppli Ulrik (Virum, Denmark)

11:15 Introduction of the “discovAIR consortium”
Martijn C. Nawijn (Groningen, Netherlands)  2239

11:20 The Human Lung Cell Atlas: how to use this universal reference of the cellular landscape of the healthy lung to answer your own research questions
Malte Lücken (Oberschleissheim, Germany)  2240

11:35 Spatial transcriptomics reveals variation in cellular neighbourhoods and transcriptional programmes in healthy and diseased lung tissue
Alexandra Firsova (Stockholm, Sweden)  2241

11:50 A unique IgA-producing plasma cell niche in submucosal glands revealed by spatially informed single-cell transcriptomic analyses
Amanda Oliver (Cambridge, United Kingdom)  2242
8H - live streamed  Session 271  11:15 - 12:45
Respiratory medicine meets other disciplines: Fight to antimicrobial resistance: the role of new diagnostics

A European perspective from the Value-Dx consortium

Aims: to present the appropriate use and development of diagnostic tools for respiratory infections, which are one of most valuable tools to reduce the occurrence of antimicrobial resistances; to review major advances in diagnostic tests for lower respiratory tract infections (LRTI) and the expected impact on epidemiology and health economics and clinical perspective.

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

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

Tag(s): Clinical

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

Chairs: Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Sassari, Italy)

11:15  Accuracy of rapid diagnostics for community-acquired pneumonia in the emerging room
Maurizio Sanguinetti (Rome, Italy)  2245

11:30  Changing the epidemiology of microbial etiology of CAARTI
surbhi malhotra-kumar (wilrijk, Belgium)  2246

11:45  Optimal management of CAARTI from a health economic perspective
Maarten Postma (Groningen, Netherlands)  2247

12:00  How rapid diagnostic tests can improve antibiotic stewardship
Bojana Beović (Ljubljana, Slovenia)  2248

12:15  Discussion and Q&A
All Speakers  2249

8N  Session 272  11:15 - 12:30
Oral presentation: Clinical and translational studies of asthma and COPD: novel mechanisms

Disease(s): Airway diseases

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

Chairs: Lena Uller (Lund, Sweden), Francisco Javier Salgado Castro (Santiago De Compostela, Spain)

OA2250  Calcaratarin D reduces airway inflammation and oxidative damage by modulating alveolar macrophages via Michael acceptor system
Wupeng Liao (Singapore, Singapore), Yu Ci Hazel Foo, Thi Ngoc Quy Tran, Wai-Shiu Fred Wong

OA2251  Effect of tezepelumab on seasonal exacerbations in patients with severe, uncontrolled asthma grouped by blood eosinophil count
Andrew Menzies-Gow (London, United Kingdom), Jonathan Corren, Christopher S Ambrose, Gene Colice, Stephanie L Roseti, Åsa Hellqvist, Kamil Kmita, Andrew W Lindsley, Bill Cook

OA2252  Extracellular HSP60 induces airway wall remodeling via Toll-Like-Receptors in mice
Lei Fang (Basel, Switzerland), Junling Li, Liang Zhou, Noria Segueni, Bernhard Ryffel, Michael Tamm, Michael Roth

OA2253  Identification of steroid-response pathways related to FeNO levels in asthma bronchial epithelium
Mandy Menzel (Lund, Sweden), Morten Hvidtfeldt, Ditte Klein, Juan Jose Nieto-Fontarigo, Asger Sverrild, Lena Uller, Celeste Porsbjerg

OA2254  Tozorakimab: a dual-pharmacology anti-IL-33 antibody that inhibits IL-33 signalling via ST2 and RAGE/EGFR to reduce inflammation and epithelial dysfunction
Effects of anti-IL 17 on inflammation in Asthma, COPD and Asthma-COPD models
Francine Maria Almeida (São Paulo (SP), Brazil), Leandro Nascimento Camargo, Nilo Martins, Juliana Dias Lourenço, Suellen Karoline Moreira Bezerra, Beatriz Saraiva-Romanholo, Edna Aparecida Leick, Fernanda Degobbi Q.S. Lopes, Carla Máximo Prado, Renato Fraga Righetti, Iolanda Fatima Lopes Calvo Tiberio

The impact of anti-IL5 therapies on patients with severe eosinophilic asthma: a proteomic approach
Paolo Cameli (Siena (SI), Italy), Lorenza Vantaggiato, Miriana D'Alessandro, Laura Bergantini, Enxhi Shaba, Alfonso Carleo, Fabrizio Di Giuseppe, Stefania Angelucci, Luca Bini, Elena Bargagli, Claudia Landi

Montelukast reverses β2-adrenoceptor tolerance in airway smooth muscle and shows a synergic effect in vivo
Ilda Cerqua (Napoli, Italy), Elisabetta Granato, Marcello Nicolas Muscarà, Giuseppe Cirino, Beatrice Severino, Rocco Pavese, Antonio Petti, Giuseppe Caliendo, Fiorentina Roviezzo

THE PDE4 INHIBITOR TANIMILAST SHOWS DISTINCT IMMUNOMODULATORY PROPERTIES ASSOCIATED WITH A TYPE 2 ENDOTYPE AND CD141 UPREGULATION
Fabrizio Facchinetti (Parma (PR), Italy), Hoang Oanh Nguyen, Valentina Salvi, Laura Tiberio, Mirco Govoni, Gino Villetti, Maurizio Civelli, Ilaria Barbazza, Carolina Gaudenzi, Mauro Passari, Tiziana Schioppa, Francesca Sozio, Annalisa Dal Prete, Silvano Sozzani, Daniela Bosisio

Implementation of lung cancer screening: an European survey
Jan van Meerbeeck (Edegem (Antwerp), Belgium), Annemiek Snoeckx

Radiomics to increase the effectiveness of lung cancer screening programs. Radiolung preliminary results.
Antoni Rosell Gratacos (Badalona (Barcelona), Spain), Sonia Baeza, Samuel Garcia-Reina, José Luis Mate, Ignasi Guasch, Isabel Nogueira, Ignasi Garcia-Olivé, Guillermo Torres, Carles Sánchez-Ramos, Debora Gil

Pilot lung cancer screening program results in Serbia during 1-year period
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Tomi Kovacevic, Darjo Bokan, Bojan Zaric, Snezana Bojanic, Dragan Dragisic

Radiology quality assurance in the Yorkshire Lung Screening Trial.
Sara Upperton (Leeds, United Kingdom), Claire Bradley, Bobby Bhartia, Philip Crosbie, Michael Darby, Rhian Gabe, Neil Hancock, Martyn Kennedy, Matthew Callister

A novel method exhale breath fingerprinting for lung cancer diagnosis by selected ion monitoring mode
Ozlem Goksel (Izmir (Bornova), Turkey), Levent Pelit, Tuğberk N. Dizdas, Aycaan Arnn, Su Ozgür, İlkın Erbaş, Fuşun Pelit, Burak Ordin, Haydar S. Karakuş, Arif Gursoy, F. Nil Ertaş, Tuncay Göksel

Diagnosing non-small cell lung cancer by exhaled-breath profiling using an electronic nose: a multicentre validation study
Sharina Kort (Enschede, Netherlands), Marjolein Brusse - Keizer, Hugo Schouwink, Emanuel Citgez, Frans De Jongh, John Van Putten, Ben Van Den Borne, Lisanne Kastelijn, Daiana Stolz, Milou Schuurbiers, Michel Van Den Heuvel, Wouter van Geffen, Job Van Der Palen

Particles in exhaled air – a new diagnostic tool for patients with lung adenocarcinoma
Jesper Andreasson (, Sweden), Embla Bodén, Gabriel Hirdman, Camilla Von Wachter, Oskar Hallgren, Mohammed Fakhro, Franziska Olm, Sandra Lindstedt

Late Breaking Abstract - Incidence of lung cancer in Chronic Obstructive Pulmonary Disease (COPD) patients:
Prognostic factors and survival analysis
Parichat Niyomthong (Phrae, Thailand)

Late Breaking Abstract - Safety and feasibility of a novel externally cooled bronchoscopic radiofrequency ablation catheter for ablation of peripheral lung tumours: a first-in-human dose escalation study
Daniel Steinfort (Parkville, Australia), Phillip Antippa, Kanishka Rangamuwa, Louis Irving, Michael Christie, Ewan Chan, Don Tanaka, Ken Yoned, Jemma Christie, Felix Herth, Shashank Raina
Session 274 11:15 - 12:30

Oral presentation: Novelties in pulmonary hypertension management

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

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

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom), Olivier Sitbon (Le Kremlin-Bicêtre, France)

**Impact of pulmonary arterial hypertension on employment, work productivity and quality of life - results of a cross-sectional multi-center study**
Jan Fuge (Hannover, Germany), Da-Hee Park, Thomas Von Lengerke, Manuel Richter, Henning Gall, Hossein A. Ghofrani, Jan C. Kamp, Marius M. Hoepner, Karen M. Olsson

**A combined measure of pulmonary vascular resistance and compliance variations in Pulmonary Hypertension (PH)**
Eduardo Airó (Pisa (PI), Italy), Carolina Bauleo, Renato Prediletto, Bruno Formichi, Ivana Pavlickova, Mauro Raciti, Simonetta Monti

**Effect of sotatercept on multi-component improvement in the PULSAR study**
Marius M. Hoepner (Hannover, Germany), Hossein-Ardeschir Ghofrani, J. Simon Gibbs, Mardi Gomberg-Maitland, Marc Humbert, Vallerie Mclaughlin, Ioana Preston, Rogerio Souza, Aaron Waxman, Janethe Pena, Solaiappan Manimaran, Marcie Fowler, David Badesch

**Characteristics and management of chronic thromboembolic pulmonary disease patients without pulmonary hypertension in an expert centre**
Benoit Lechartier (Lausanne, Switzerland), Mitja Jevnikar, Elie Fadel, Philippe Brenot, Antoine Beurnier, David Montani, Laurent Savale, Olivier Sitbon, Marc Humbert, Xavier Jais

**Metabolic modulation of the right ventricle and pulmonary circulation in pulmonary arterial hypertension: an interventional study using a Glucagon-like-peptide-1 (GLP-1) agonist**
Chinthaka Samaranayake (London, United Kingdom), Aleksander Kempny, Laura C Price, Joy Pinguel, Eleanor Morris, Eva Moriarty, Mahitha Gummadi, Konstantinos Dimopoulos, S John Wort, Lan Zhao, Colm Mccabe

**Baseline characteristics of patients included into the ERS Clinical Research Collaboration: “Pulmonary Hemodynamics during Exercise - Research Network” (PEX-NET) registry**
Gabor Kovacs (Graz, Austria), Marc Humbert, Philippe Herve, Alexander Avian, Nazzareno Galic, Gregory Lewis, Rogerio Souza, Silvia Ulrich, Anton Vonk Noordegraaf, Mads Andersen, Joan Albert Barbera, Isabel Blanco, Robin Condliffe, Michele D’Alto, Benjamin Egenlauf, Ralf Ewert, Ekkehard Gruenig, Alexander Heine, Simon Herkenrath, Steven Hsu, Krzysztof Kasperowicz, Susanna Mak, Bradley Maron, Colm Mccabe, Rudolf Oliveira, Stephan Rosenkranz, Laurent Savale, Stephanie Saxon, David Systrom, Ryan Tedford, Adam Torbicki, Horst Olschewski

**New diagnostic criteria and PVR thresholds in SSc-associated PH: Insights from the ASPIRE registry**
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Ashrafal Haque, Athanasios Charalampopoulos, Krit Dwivedi, Charlie Elliot, Abdul Hameed, Neil Hamilton, Rob Lewis, Sheila Ramjug, Alex Rothman, Roger Thompson, Andy Swift, David Kiely

**The preponderance of genetic involvement in paediatric pulmonary hypertension**
Julien GRYNBLAT (Paris, France), Sophie Malekzadeh Milani, Mathilde Meot, Isabelle Szczepanski, Marilyne Levy, Damien Bonnet

**Inhaled treprostinil in patients with pulmonary hypertension due to interstitial lung disease: event-free survival in INCREASE study open-label extension**
Steven D Nathan (Falls Church, United States), Rahul Argula, Sudarshan Rajagopal, Shilpa Johri, David De La Zerda, Dana Mcglothlin, Peter Smith, Cq Deng, Melissa Miceli, Victor Tapsom, Aaron Waxman

**Late Breaking Abstract - Risk stratification in pulmonary veno-occlusive disease**
Athénais Boucly (Le Kremlin Bicète, France), Laurent Savale, Xavier Jais, Antoine Beurnier, Mitja Jevnikar, Marc Humbert, Olivier Sitbon, David Montani

Discussion
All Speakers
**Disease(s):** Sleep and breathing disorders, Pulmonary vascular diseases, Thoracic oncology

**Method(s):** Epidemiology, Imaging, Physiology

**Chairs:** Silke Ryan (Dublin, Ireland), Raphael Heinzer (Lausanne, Switzerland)

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**OA2282**
**Long-term effect of OSA and CPAP on blood pressure in patients with acute coronary syndrome: A post-hoc analysis of the ISAACC study.**
Manuel Sanchez De La Torre (Lleida, Spain), Andrea Zapater, Gerard Torres, Esther Gracia-Lavedan, Ivan David Benitez, Alicia Sanchez-De-La-Torre, Jordi De Batlle, Adriano Targa, Olga Miguez, Lydia Pascual, Anunciacion Cortijo, Dolores Martinez, Mireia Dalmases, Ferran Barbé

**OA2283**
**Percentage of sleep time with increase in respiratory effort is a strong predictor of prevalent hypertension in obstructive sleep apnea patients**
Jean-Louis Pépin (Grenoble, France), NHAT-NAM LE-DONG, Jean-Benoit Martinot, Renaud Tamisier

**OA2284**
**Pulse wave amplitude drops (PWAD) index: a biomarker of cardiovascular risk in patients with obstructive sleep apnea in three cohorts.**
Raphael Heinzer (Lausanne, Switzerland), Geoffroy Solelhac, Manuel Sanchez-De-La-Torre, Margaux Blanchard, Mathieu Berger, Nicola Andrea Marchi, Camila Hirotsu, Giulio Bernardi, Monica Betta, Peter Vollenweider, Julien Vaucher, Andrea Zapater, Esther Gracia-Lavedan, Pedro Marques-Vidal, Ferran Barbé, Frédéric Gagnadoux

**OA2285**
**The effect of CPAP therapy on aortic inflammation in obstructive sleep apnoea: data from a proof-of-concept PET-CT study**
Chlöe O'Donnell (Dublin 4, Ireland), Shane Crilly, Anne O'Mahony, Jonathan Dodd, Donal O'Shea, David Murphy, Silke Ryan

**OA2286**
**Impact of sulthiame on endotypic traits in OSA - a RCT**
Jan A. Hedner (Göteborg, Sweden), Erik Hoff, Christian Strassberger, Kaj Stenlöf, Ding Zou, Ludger Grote

**OA2287**
**Obstructive sleep apnea and cognitive decline in the elderly population: the HypnoLaus study**
Raphael Heinzer (Lausanne, Switzerland), Nicola Marchi, Geoffroy Solelhac, Mathieu Berger, José Haba-Rubio, Bogdan Dragnanksi

**OA2288**
**Sleep apnea and incident unprovoked venous thromboembolism: Data from the French Pays de la Loire Sleep Cohort**
Wojciech Trzepizur (Angers, France), Chlöe Gervès-Pinquié, Baptiste Heude, Margaux Blanchard, Nicole Meslier, Marie Jouvenot, Sandrine Kerbat, Raphael Le Mao, Eline Magois, Jean-Louis Racineux, Abdelkebir Sabil, Jérémie Theraux, Francis Couturaud, Frédéric Gagnadoux

**OA2289**
**Sleep characteristics and cardio-metabolic comorbidities in the OSA-COPD overlap syndrome: Data from the European Sleep Apnea Database (ESADA)**
Mafalda van Zeller (Porto, Portugal), Ozen K. Basoglu, Johan Verbraecken, Carolina Lombardi, Walter T. Menicholas, Jean Louis Pepin, Paschalis Steiropoulos, Pawel Sliwinski, Daniela Correia, Maria R. Bonsignore, Sophia E. Schiza, Jan Hedner, Ludger Grote, Marta Drummond

**OA2290**
**Cancer prevalence is increased in obstructive sleep apnea – the population-based DISCOVERY study**
Andreas Palm (Uppsala, Sweden), Jenny Theorell-Haglöw, Johan Isaksson, Mirjam Ljunggren, Josef Sandh, Magnus Ekström, Ludger Grote

**OA2291**
**Late Breaking Abstract - Predictors of BP reduction in patients with OSA treated with CPAP therapy – an individual patient data meta-analysis**
Martino Pengo (Milano (MI), Italy), Esther I Schwarz, Ferran Barbe, Peter Cistulli, Cristiano Fava, Flavio D Fuchs, Kelly Loffler, Macy Lui, Miguel Angel Martinez-Garcia, Craig L Phillips, Tim Quinmel, Joerg Steier, John Stradling, Antonella Zambon, Gianfranco Parati

**OA2292**
**Discussion**
All Speakers

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**Studio - online**

**Session 276**

**12:45 - 14:00**

**Online skills lab: Thoracic ultrasound**

**Aims:**
To demonstrate bronchoscopic techniques for the diagnosis, nodal staging and treatment of lung cancer
To provide update on novel interventional techniques
To demonstrate how to perform cryobiopsy in ILD
To demonstrate how to do rigid thoracoscopy and pleuro desis for suspected pleural malignancy.
To demonstrate TUS in various pulmonary diseases including interventions

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Pia Iben Pietersen (Odense NØ, Denmark)

**12:45**
**Introduction**
All Speakers
12:50 Transthoracic Ultrasound: Realtime image-guided interventions in pleural disease
Rahul Bhatnagar (Bristol, United Kingdom)

13:05 Transthoracic Ultrasound: LUS in the diagnosis and management of respiratory failure
Casper Falster (Odense, Denmark)

13:20 Transthoracic Ultrasound: Contrast enhanced ultrasound in lung and pleural disease
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)

13:35 Transthoracic Ultrasound: The role of LUS in the diagnosis and management of interstitial lung disease
Jesper Rømhild Davidsen (Odense C, Denmark)

13:50 Q&A
All Speakers

8N Session 282 12:45 - 14:00
Oral presentation: Latest news from paediatric population-based and clinical cohort studies

Disease(s): Airway diseases
Method(s): Epidemiology  Public health  Pulmonary function testing
Chairs: Myrofora Goutaki (Bern, Switzerland), Maribel Casas (Barcelona, Spain)

OA2300 Association of Early Life Factors with Prematurity-Associated Lung Disease : Prospective Cohort Study
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Michael Cousins, W John Watkins, A John Henderson, Sailes Kotecha

OA2301 Maternal pesticides exposure in pregnancy and wheezing in early childhood
Franca Rusconi (Pisa, Italy), Giovenale Moirano, Maja Popovic, Milena Maule, Antonio D’Errico, Lorenzo Richiardi, Silvia Maritano

OA2302 Maternal diet during pregnancy with allergic and respiratory profiles in children
Rosalie Delvert (Paris, France), Marie-Aline Charles, Orianne Dumas, Bénédicte Leynaert, Rachel Nadif, Sabine Plancoulaire, Chantal Raherison, Mohammed Sedki, Raphaëlle Varraso, Blandine De Lauzon-Guillain, Annabelle Bédard

OA2303 Trends in the incidence of asthma in children and adolescents in Catalonia, 2010-2021: a large population-based cohort study
Alicia Abellan (Barcelona, Spain), Berta Raventós, Edward Burn, Andrea Pistillo, Talita Duarte-Salles

OA2304 Respiratory impedance reference values in children and adolescents: the Austrian LEAD Study.
Christoph Valach (Vienna, Austria), Emiel F. M. Wouters, Alina Ofenheimer, Patricia Puchhammer, Pasquale P. Pompilio, Alessandro Gobbi, Marie K. Breyer, Sylvia Hartl, Otto C. Burghuber, Robab Breyer-Kohansal

OA2305 Lung function and cognitive ability in children: a UK birth cohort study
Jack Grenville (Bristol, United Kingdom), Raquel Granell, James Dodd

OA2306 Otologic features in patients with Primary Ciliary Dyskinesia- an EPIC-PCD study

OA2307 Comparison of longitudinal outcomes in children with primary ciliary dyskinesia and cystic fibrosis
Margaret Rosenfeld (Seattle, United States), Breanna Kinghorn, Frankline Onchiri, Erin Sullivan, Stephanie Davis, Margaret Leigh

OA2308 Late Breaking Abstract - Predictors associated with critical care need and in-hospital mortality among children with laboratory-confirmed Covid-19 infection in a high HIV burden region
Liliane Byamungu (Durban, South Africa), Jean Nachega, Ashendri Pillay, Prakash Jeena, Lindsay Zurba, Refiloe Masekela

8F Session 283 12:45 - 14:00
Oral presentation: COVID-19 acute respiratory distress syndrome and beyond
**Disease(s):** Respiratory critical care, Airway diseases, Interstitial lung diseases

**Method(s):** Respiratory intensive care, Epidemiology, Physiology, Transplantation, Public health, Imaging, Pulmonary function testing

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Maxime Patout (Paris, France)

**OA2310**
Julien Pottecher (Strasbourg, France), Victor A. H. Sato, Yannick Plétan, Andrea Comenducci, Violaine Desort-Henin, Martine Jandrot-Perrus, Sophie Binay, Adeline Meilhoc, Gilles Avenard

**OA2311**
Higher versus lower dose corticosteroids for moderate to severe COVID-19: a systematic review, dose response and network meta-analysis.
Tyler Pitre (Kitchener, Canada), Jasmine Mah, Wryan Helmeczy, Johnny Su, Sharef Danhoe, William Plaxton, Stephen Gilick, Dena Zeraatkar

**OA2312**
Impact of Dexamethasone on pathogen profile of COVID-19 patients requiring intensive care: a multicentre retrospective study.
Cathrin Kodde (Berlin, Germany), Finja Timmen, Sven Hohenstein, Andreas Bollmann, Marzia Bonsignore, Ralf Kuhlen, Irit Nachtigall, Selcuk Tasci

**OA2313**
SUSTAINED ALVEOLAR FIBROPROLIFERATION IN PATIENTS WITH NON-RESOLVING COVID-19 RELATED ARDS DOES NOT LEAD TO PULMONARY FIBROSIS.

**OA2314**
Extracorporeal life support allows lung transplant in anti-MDA5+ rapidly progressive-interstitial lung disease.
Pierre Bay (Creteil, France), Marc Pinet D'Ambrun, Antoine Roux, Vincent Bunel, Alain Combes, Dominique Israël Biet, Benjamin Zuber, Hilario Nunes, Yves Allenbach, Yurdagul Uzunhan

**OA2315**
Recirculation in venovenous extracorporeal membrane oxygenation.
Christoph Fisser (Regensburg, Germany), Oscar Palmer, Marko Sallisalmi, Michael Paulus, Maik Foltan, Alois Philipp, Maximilian Malfertheiner, Matthias Lubnow, Thomas Müller, Lars Broman

**OA2316**
Early prediction of mortality of septic patients visiting emergency room using machine learning.
Jeongwon Heo (Chuncheon-si, Republic of Korea), Yeonjong Heo, Da Hye Moon, So Hyeon Bak, Woo Jin Kim, Seon-Sook Han, Se-Heon Choi, Do-Won Kim, Yoon Kim, Hyun-Soo Choi

**OA2317**
Prognostic value of serum chemerin in critically ill patients with sepsis: a prospective study.
Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Natalia Vailianou, Dimitrios Tsilingiris, Evangelia Chrysanthopoulos, George Skyllas, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armanagidis, Maria Dalamaga

**OA2318**
Effect of phosphodiesterase inhibitors on lung function, oxidative damage and inflammation in a rabbit model of acute respiratory distress syndrome.
Petra Kosutova (Martin, Slovakia), Pavol Mikolka, Daniela Mokra, Andrea Čalkovska

**OA2319**
Late Breaking Abstract - Effect of N-acetyl cysteine in a patient cohort with severe or very severe COVID-19 pneumonia.
Carolina Maria Gotera Rivera (Madrid, Spain), Carlos López Chang, Laura De La Dueña, Lucia Llanos Jiménez, Rocio Cortés, Olga Sanz Pérez-Pernaute, Cesar Pérez Calvo, Ana Ioan, Juan Pérez, Arnoldo Santos Oviedo, Sarah Heili Frades, Alba Nayra Prieto, Iztiañ Fernández Ormaechea, M. Del Pilar Carballosa De Miguel, María Jesús Rodríguez Nieto, Germán Peces Barba

**OA2320**
Discussion
All Speakers

**OA2321**
THE COURSE OF COVID-19 IN PATIENTS WITH ASTHMA DEPENDS ON GLN27GLU ADRB2 GENE POLYMORPHISM.
Anna Bondarkova (Sumy, Ukraine), Vladyslava Kachkovska, Anna Kovchev, Lyudmyla Prystupa
Small airways disease post COVID-19: 1 year follow up
Bavithra Vijayakumar (Thame (Oxfordshire), United Kingdom), Andrew Ritchie, James Tonkin, Christopher M Orton, Jadwiga Wedzicha, Pallav L Shah

Long-term home oxygen therapy as a strategy to reduce hospitalization time in patients affected by COVID-19 with persistent hypoxemia
Robson Prudente (Botucatu (SP), Brazil), Douglas Silva, Estefânia Franco, Vitória Marcondes, Kely Oliveira, Luiz Machado, Luis Brizola, Maércio Santos, Edris Savadkouhi, Camila Colombo, Amanda Peralta, Suzana Tanni

Similar pulmonary functional outcomes at 3 months in critical COVID-19 survivors of the first, second and third pandemic waves
Marie Bruyneel (Brussels, Belgium), Cecile Dusart, David De Bels, Alain Roman, Marc Claus, Nathalie De Vos, Stephane Alard, Stephanie Andre

Network analysis uncovers relationship between immune profiles and severity of COVID-19
Milan Sova (Olomouc, Czech Republic), Eva Kriegova, Samuel Genzor, Milos Kudelka, Jan Mizera, Petr Jakubec

Inflammation profiling and recovery clusters five months post-hospitalisation for COVID-19
Omer Elnaime (Leicester, United Kingdom), Matthew Richardson, Olivia C Leavy, Hamish J C McAuley, Ruth M Saunders, James D Chalmers, Ling-Pei Ho, Alex Horsley, Michael Marks, Betty Raman, Rachel A Evans, Christopher E Brightling, Louise V Wain

Therapeutic strategies in hospitalised patients with SarsCov-2 hypoxicemic pneumonia
Pedro Cunha (Guimarães, Portugal), Cecília Castro, Helena Sarmento, Isabel Vila, Mecia Vieira, Ana Sofia Costa, Ana Paula Amorim, Margarida Correia-Neyes, Jorge Cotter

Comparison of the 1-minute sit-to-stand test with the 6-minutes walk test for the evaluation of the functional status of post-COVID-19 patients
Maria Marta De Sampaio Nunes Duarte Silva (Estoril, Portugal), Pedro Fiuza, Neuza Reis, Miguel Toscano Rico

Phenotyping dyspnea in patients suffering from post-COVID syndrome
Enrico Buonamico (Bari (BA), Italy), Andrea Portacci, Fabrizio Diaferia, Paola Pierucci, Giuseppe Di Gioia, Cristiano Locorotondo, Sara Quaranta, Ilaria Iorillo, Alessandro Capuano, Giovanna Elisiana Carpagnano

Late Breaking Abstract - Efficacy of Breathoxdevice inhalation on acute symptoms associated with COVID-19 (BREATH study)
Suzana Erico Tanni (Botucatu (SP), Brazil), Robson Prudente, Marina Okoshi, Felipe Damatto, Fernando Wehrmeister, Leiliane Oliveira, Carlos Breda Neto, Luana Pagan, Mariana Gatto, Leticia Vieira, Liana Coelho, Diane Rezende, Luiz Machado, Gustavo Mota, Marina Gaiato, Felipe Santaelha, Elisangela Campos, Lize Hosoume, Estefânia Franco, Ulla Weinreich

Discussion
All Speakers

13:00-14:00
INDUSTRY VIRTUAL SYMPOSIUM
SEE PAGE 1

13:00-14:00
INDUSTRY LUNCHTIME SYMPOSIUM
SEE PAGE 1

TP-1 in thematic poster
Session 293 13:00 - 14:00

Thematic poster: Clinical problems in respiratory medicine: 2

Disease(s) : Airway diseases, Thoracic oncology, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s) : General respiratory patient care, Pulmonary function testing
Physiology : Endoscopy and interventional pulmonology, Public health, Imaging, Epidemiology

Chairs : Margarida Afonso (Castelo Branco, Portugal), Afroditi Boutou (Thessaloniki, Greece)

Does preexisting immunocompromised status prevent mortality in COVID-19 patients: friend or foe?
Duygu Vezir (ISTANBUL, Turkey), Şehnaz Ölgün Yıldızeli, Derya Kocakaya, Zeynep Mercanci, Baran Balcan, Caner Çınar, Emel Eryüksel, Sait Karakurt
Clinical effectiveness of 13-valent and 23-valent pneumococcal vaccination among adults with immunocompromising conditions.
Cinta de Diego Cabanes (Tarragona, Spain), Eva Satué-Gracia, Angel Vila-Rovira, Clara Rodríguez-Casado, Olga Ochoa-Gondar, Angel Vila-Córcoles.

Lung manifestation of Common variable immunodeficiency – the results from the nationwide multicenter study.
Tomas Milota (Prague, Czech Republic).

Chemotherapy-induced anemia: What are predictive factors in lung cancer?
Darine Sakka (Sfax, Tunisia), Nesrine Kallel, Rim Khemakhem, Ilhem Yangui, Hajer Ayedi, Sami Kammoun.

Phenotypic features of >300 suspected severe asthma attacks.
Mouaïd Aljehani (Nottingham, United Kingdom), Tim Harrison, Matthew Martin.

Information and Counselling Offered to Women of Childbearing Age, When Starting Biological Therapy for Severe Asthma Across the UK.
Susan Frost (Birmingham (West Midlands), United Kingdom), Ann McMurray, Prasad Nagakumar.

Ziyang Fang (Nanjing, China), Ziyang Fang, Xueer Li, Xueling Yang, Jing Liu.

Hypersensitivity pneumonitis: clinical and radiological profile.
Soukaina Hallouli (Casablanca, Morocco), Meryem Zadi, Hajar Arfaoui, Hasnae Jabri, Wiam Elkhattabi, Hicham Afif.

What goes bump in the night? An analysis of unplanned contacts to a Regional UK Children's Long Term Ventilation team.
Elizabeth Queen (Nottingham, United Kingdom), Elisabeth Queen, Rachel Gregory, Adele Frost, Nicky McNarry, Hannah Borrill, Andrew Prayle, Matthew Hurley.

Sociodemographic and clinical characteristics of patients with asthma who were prescribed ≥3 SABA canisters/year in the SABINA International study.

Pulmonary function, muscular strength and quality of life according to mechanical ventilation use in post-Covid patients.
Diane Rezende Batista (Botucatu (SP), Brazil), Rodrigo Barcellos, Robson Prudente, Bruno Lima, Vítor Nishiyama, Estefânia Franco, Luiz Henrique Machado, Luis Fernando Brizola, Maércio Santos, Edris Savadkouhi, Camila Colombo, Suzana Ruiz, André Albuquerque, Eloara Machado Ferreira, Suzana Tanni.

Home initiation of Long Term Ventilation in children and young people. UK Regional service experience.
Meera Kumar (Nottingham, United Kingdom), Hannah Borrill, Adele Frost, Rachel Gregory, Nicky McNarry, Andrew Prayle, David Thomas, Matthew Hurley.

Effects of Salbutamol upon lung ventilation, hemodynamics and oxygen transport by arterial blood in chronic obstructive pulmonary disease (COPD).
Valentin Calancea (Chisinau, Moldova), Eudochia Terna, Constantin Martineviciuc, Svetlana Emerciuc, Ion Sirbu, Elena Calancea, Constantin Matcovschi, Sergiu Matcovschi.

Birch pollen-induced seasonal allergic rhinitis and bronchial asthma: implication for allergen-specific immunotherapy in adults.
Jiri Nevrlka (Brno, Czech Republic), Iveta Selingerova, Zlatica Nevrlkova, Katarina Ditotova, Lenka Zdrasilova-Dubska.

Assessment of the relationship between cognitive functions and inhaler device compliance in elderly COPD patients.
Oğuz Karcioğlu (Ankara, Turkey), Mert Eşme, Sevinç Sarıncı Ulaşlı, Burcu Balam Doğu.

Analysis of Characteristics and Outcomes of 223 Patients Admitted to Our Unit due to Respiratory Insufficiency Secondary to Pneumonia from SARS-COV2.
Marialma Berlendis (Chiari (BS), Italy), Alberto Valsecchi, Nicola Venturoli, Sabrina Arondi, Giovanni Vitrone, Paola Sinigaglia, Maroone Salameh, Denise Modina, Paolo Ceruti, Giampietro Marchetti.

Provision of home high flow therapy is feasible and associated with positive patient experience and reduced admissions.
Chris Carlin (Glasgow, United Kingdom), Anna Taylor, Maureen Manthe, Grace Medowell, David Lowe.

Efficacy estimation of filter pads in expiratory filter/valve sets by means of Tc-99m-labeled graphite aerosol.
Hubertus Hautzel (Essen, Germany), Timo Bartel, Kaid Darwiche, Clemens Aigner, Christian Taube, Ken Herrmann.
PA2383  Evolution of the Use of Noninvasive Mechanical Ventilation in Chronic Obstructive Pulmonary Disease

PA2384  Risk stratified physician associate asthma review
Sonika Jalota (Liverpool, United Kingdom), Sophie Wotherspoon, Hassan Argomanikhah, Shauna Johnston, Joanne Halewood, Sarah Sibley, Hassan Burhan

TP-10 in thematic poster area
Session 294  13:00 - 14:00

Thematic poster: Asthma biologics in real life studies
Disease(s): Airway diseases
Method(s): Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing, Endoscopy and interventional pulmonology, Physiology
Chairs: Francisco Javier Salgado Castro (Santiago De Compostela, Spain), Chair to be confirmed

PA2385  Inter-observer agreement on biological treatment decision for severe asthma.
Andréeanne Cote (Quebec, Canada), Marie-Eve Boulay, Rosalie Beaulé, Louis-Philippe Boulet, Krystelle Godbout, David Price

PA2386  A single-centre retrospective review of asthma and pregnancy outcomes after exposure to monoclonal antibody therapy for severe asthma
Hannah Joplin (Liverpool (Merseyside), United Kingdom), Amy G Nuttall, Seher Zaidi, Gareth Jones, Livingstone Chishimba, Hassan Burhan

PA2387  Perceptions on home-administration of biologics in severe asthma: an international qualitative study,
Bertine Flokstra - De Blok (Groningen, Netherlands), Janwillem Kocks, Hans Wouters, Chantal Arling, Josh Chatelier, Jo Douglass, Laim Heaney, Joshua Holmes, Marc Humbert, Mary Kolanowski, Jeanet Landsman, Njira Lugogo, Alice Malpass, Jiska Meijer, Boyd Mez, Bibinha De Mul, Frank Postma, Marika Lev

PA2388  Real-world effectiveness of anti-IL-5/5R therapy in severe eosinophilic asthma with comorbid bronchiectasis
Sarah Bendien (Den Haag, Netherlands), Hans Kroes, Anke-Hilse Maitland- Van Der Zee, Anneke Ten Brinke

PA2389  RELight: A two-year REal-Life study of mepolizumab in patients with severe eosinophilic asthma in Greece: evaluating the multiple components of response

PA2390  Real-world effectiveness (RWE) of dupilumab in reducing healthcare resource utilization among moderate-to-severe asthma patients
Ajinnya Pawar (Cambridge, United States), Michael S. Blaiss, Brian D. Modena, Asif H. Khan, Lucia De Prado Gómez, Yi Zhang, Shahid Siddiqui, Juby A. Jacob-Nara

PA2391  Real-life experience with biologic therapies in severe uncontrolled asthma
Marina Saad (Cesano Boscone, Italy), Francesca Mandurino Mirizzi, Giuseppe Fuccia, Alessandro Zuffi, Eleonora Maratta, Lisa Milani, Juan Camilo Signorello, Dejan Radovanovic, Pierachille Santos

PA2392  Biologic therapies could prevent lung function decline in severe asthma: a 3 years real life observational study
Nicolas Bougard (Liège, Belgium), Florence Schleich, Sophie Graff, Anne-Noel Frix, Virginie Paulus, Françoise Guissard, Renaud Louis

PA2393  The experience of dual biologic therapy in patients with eosinophilic asthma and autoimmune diseases
Andreas M. Matthaiou (Heraklion, Greece), Nikoleta Bizymi, Leo Ettionier, Eleni Bibaki, Jacques Morel, Nikolaos Tzanakis, Arnaud Boudrin, Katerina Antoniou

PA2394  Impact of co-existing chronic rhinosinusitis on the effect of biological therapy in severe asthma - Danish nationwide cohort study
Jaschim Bruun (København N, Denmark), Susanne Hansen, Christel Lajer, Truls Sylvan Ingebrigtsen, Charlotte Suppli Ulrik, Anne-Sofie Bjerrum, Anna von Bellow, Claus Johensen, Ole Hilberg, Sofie Lock Johansson, Karin Dahl Assing, Linda Rasmussen, Kjell Håkansson, Johannes Schmid, Mariane Sondergaard, Lycely Domingo, Celeste Porsbjerg

PA2395  Severe asthma in obese patients: what to expect with Mepolizumab?
Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Daniela Machado, Ivone Pascoal, Inês Franco, Ricardo Lima
|PA2396| Decision outcomes following referral to a tertiary asthma service for MAb therapy. | Amy Nuttall (Liverpool, United Kingdom), Hannah Joplin, Catherine Lowe, Gareth Jones, Seher Zaidi, Hassan Burhan, Livingstone Chishimba|
|PA2398| Real life benralizumab effectiveness in patients with severe eosinophilic asthma after a 24 month observation | Giulia Lo Muzio (Roma, Italy), Olimpia Calò, Cecilia Cisternino, Paola Scarano, Arianna Sanna, Francesca De Filippis, Alessia Steffanina, Maria Teresa Leporini, Paolo Palange, Elda Graziani|
|PA2399| Impact of biological therapies in lung function in patients with severe asthma | Antonio Menéndez (Granada, Spain), Susana Rojo-Tolosa, Jose Antonio Sánchez-Martínez, Cristina Pérez-Ramírez, Gonzalo Jiménez-Gálvez, Alberto Jiménez-Morales, Concepción Morales-Garcia|
|PA2400| Burden of severe asthma by biologic use and eligibility: an analysis of the International Severe Asthma Registry | Trung Tran (Gaithersburg, United States), Tham Le, Clement Erhard, David Price, Ekaterina Maslova, Bill Cook, Anna Quinton, Rohit Katial, George C Christoff, Luis Perez-De-Llano, Victoria Carter, Trung N Tran|
|PA2401| Therapeutic approach with mepolizumab (anti-IL-5) in a series of patients with eosinophilic granulomatosis with polyangiitis | Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Stathakis, Styliani Viziriannaki, Eleni Bibaki, Nikolaos Tzanakis, Katerina Antoniou|
|PA2403| Mepolizumab therapy in severe asthma – a study of long term efficacy and safety | Christopher Reilly (Birmingham, United Kingdom), Rajarajan Anandavelu, Julie Marsh, Julie Sullivan, Fiona O’Riordran, Sarah Cotterill, Lisa White, Adeel Mansur|
|PA2404| Dupilumab leads to sustained improvement of asthma control in real-life severe asthmatics. | Andreas Remner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Wolfgang Pohl|

**TP-11 in thematic poster**

**Session 295**

**13:00 - 14:00**

**Thematic poster: Chronic airway diseases and infections: management and prevalence**

**Disease(s):** Airway diseases

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

**Chairs:** Lies Lahousse (Ghent, Belgium), Hannu Kankaanranta (Seinäjoki, Finland)

1. **“Smart” inhalers: is there a role in the management of severe asthma?**
   - Yee Yong See (Scarborough, United Kingdom), Evon Chee Yin Chow, Michael Crooks, Mandy Robinson, Karen Watkins, Francesca Turner, Joanne Thompson, Shoaib Faruqi

2. **Utility of “smart” inhaler and suppression of fractional exhaled nitric oxide (FeNO): does it make a difference to patient outcomes?**
   - Evon Chee Yin Chow (Hull, United Kingdom), Yee Yong See, Michael Crooks, Mandy Robinson, Karen Watkins, Francesca Turner, Joanne Thompson, Shoaib Faruqi

3. **Dry powder inhaler (DPI) resistance: human behaviour and psychology of patient inspiratory effort**
   - Monbi Chakma (London, United Kingdom), Sally Meah, Martyn Biddisscombe, Darragh Murnane, Omar Usmani

4. **Dry Powder Inhalers (DPIs) vs Metered Dose Inhaler (MDI) with valved spacer: Using Functional Respiratory Imaging (FRI) to assess modelled lung deposition in a COPD patient**
   - Jason Suggett (London (ON), Canada), Vlad Kushnarev, Hosein Sadafi

5. **Cardiovascular system side-effects of salbutamol: A systematic review and met-analysis**
   - Xuan Li (Shenzhen, China), Lanhong Ma, Li Jia, Canghong Zhi, Honglin Li, Ling Bai
PA2410 Safety profile of triple ICS/LABA/LAMA FDC in the treatment of asthma: a meta-analysis
Luigino Calzetta (Roma (RM), Italy), Francesco Cavalli, Alfredo Chetta, Mario Cazzola, Paola Rogliani

PA2411 Association of Short-Acting-β-2 Agonist (SABA) Overuse and Risk of COPD among Adult Asthma Patients
Michael Asamoah-Boaheng (St John's, Canada), Jamie Farrell, Kwadwo Osei Bonsu, William K Midodzi

PA2412 Improvement of asthma control after 3 months of treatment with extrafine single-inhaler triple therapy in asthmatics: a real-world view from Germany
Timm Greulich (Marburg, Germany), Berktan Akyildiz, Renata Slawinska, Andreas Wendt, Valentina Bogoevska, Christian Gessner

PA2413 Improvement of treatment adherence after 3 months of treatment with extrafine single-inhaler triple therapy in asthmatics: a real-world view from Germany
Christian Gessner (Leipzig, Germany), Berktan Akyildiz, Veronika Grickschat, Tanja Borucki, Frederik Trinkmann

PA2414 Dose delivery characteristics and lung deposition of indacaterol/glycopyrronium/mometasone furoate (IND/GLY/MF) and IND/MF via Breezhaler device: An Alberta Idealised Throat (AIT) evaluation
Xavier Jaumont (La Madeleine, France), Jürgen Jauernig, Katrin Fiebich, Dilraj Singh, Karen Mezzi

PA2415 Inhaled Corticosteroids in Patients with Chronic Obstructive Pulmonary Disease and Risk of Acquiring Streptococcus Pneumoniae Infection. A Multiregional Epidemiological study
Christian Kjer Heerfordt (Hellerup, Denmark), Josefin Eklöf, Pradeesh Sivapalan, Truls Sylvan Ingebrigtsen, Tor Biering-Sørensen, Zitta Barrella Harboe, Jesper Koefod Petersen, Christian Østergaard Andersen, Jonas Bredtbo Boel, Anne Katrine Bock, Alexander G. Mathioudakis, John R. Hurst, Shailesh Kolekar, Sofie Lock Johansson, Jette Marie Bangsborg, Jens Otto Jarlov, Ram Dessau, Christian Borbjerg Laursen, Michael Perch, Jens-Ulrik Staehr Jensen

PA2416 Disease burden and treatment patterns among patients with asthma on GINA 4/5 therapies in China
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), Ge Liu, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards

PA2417 Disease burden and treatment patterns among patients with asthma in China
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), James Siddall, Ge Liu, Anna Richards, Adam Haq, Rafael Alfonso-Cristancho, Mark Small

PA2418 A randomised controlled trial of the effects of a total diet replacement programme in uncontrolled asthma associated with obesity
Varun Sharma (Glasgow, United Kingdom), Helen C Ricketts, Lousie Mccombe, Naomi Brosnahan, Luisa Crawford, Lesley Slaughter, Anna Goodfellow, Femke Steffensen, Rekha Chaudri, Michael Ej Lean, Douglas C Cowan

PA2419 Two-month treatment with Zataria multiflora affected inflammatory cytokines, pulmonary function tests and respiratory symptoms in patients with chronic obstructive pulmonary disease (COPD)
Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Vahideh Ghorani, Mohammad Reza Khazdair, Majid Mirsadraee, Omid Rajabi

PA2420 The availability, cost and affordability of essential medicines for asthma and COPD in low- and middle-income countries: A systematic review
Marie Stolbrink (Liverpool (Merseyside), United Kingdom), Helen Thomson, Ruth M. Hadfield, Obianju B. Ozoh, Rebecca Nantanda, Shamantshi Jayasooria, Brian Allwood, David M.G. Halpin, Sundeep Salvi, Maria Montes De Oca, Kevin Mortimer*, Sarah Ryalance*

PA2421 Characterization of a Colombian cohort of high-risk phenotypes of COPD according to GeEPOC 2021
Carlos Andrés Celis Preciado (Bogotá (Cundinamarca), Colombia), Olga Milena García Morales, Alejandra Cañas Arboleda, Fanny Paola Rodriguez Torres, Javier Leonardo Galindo Pedraza, Juan Pablo Alzate Granados

PA2422 Physical activity, sedentary behaviour and sleep of Sri Lankan adults living with COPD: cross-sectional study
Akila Randika Jayamaha ( Colombo, Sri Lanka), Chamila Perera, Ilaria Pina, Thamara Amarasekara, Anthony Seneviratne, Ravi Karunatillake, Amitha Fernando, Andy Barton, Michael Steiner, Savithri Wimalasekera, Sally Singh, Mark Orme

PA2423 EDAC PREVALENCE AND ASSOCIATED FACTORS IN PATIENTS WITH SEVERE BRONCHIAL ASTHMA

PA2424 Asthma patients discharged from the emergency department in Ireland: an unmet need?
Cameron Forward (Galway, Ireland), Rory O’Loghlin, Helen Mulryan, Donna Langan, Michael Harrison, Robert Rutherford, Ruth Cusack
Thematic poster: Alpha-1 antitrypsin deficiency and chronic airway obstructive diseases

Disease(s): Airway diseases, Thoracic oncology

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

Chairs: Alice Turner (Birmingham (West Midlands), United Kingdom), Kenneth R. Chapman (Toronto (ON), Canada)

PA2425 Prevalence of cardiovascular disease in alpha-1 antitrypsin deficiency
Paul Ellis (Solihull, United Kingdom), Emily Bailey, Alice Turner

PA2426 Alpha-1 antitrypsin deficiency associates with asthma exacerbations
Elena Martín González (La Laguna, Spain), José M. Hernández-Pérez, Mario González-Carracedo, Javier Pérez-García, Ruperto González-Pérez, Elena Mederos-Luis, Inmaculada Sánchez-Machín, Paloma Poza-Guedes, María Jesús Cruz, Francisco Javier González-Barcala, Carlos Martínez-Rivera, Joaquim Mullol, Xavier Muñoz, José María Olaguibel, Vicente Plaza, Santiago Quirce, Antonio Valero, Joaquín Sastre, Victoria Del Pozo, Jesús Villar, José A. Pérez, María Pino-Yanes

PA2427 The effect of SERPINA1 mutations on α1-antitrypsin levels in COPD
Csilla Páska (Budapest, Hungary), Imre Barta, Ana Keckés, Anna Kerpel-Fronius, Diána Solymosi, Balázs Antus

PA2428 Association between α1-antitrypsin deficiency and its clinical manifestations – an observational study in a Portuguese cohort
Maria João Silva (Torres Novas, Portugal), Diana Amorim, Maria João Canotilho, Savato Feijó

PA2429 Longitudinal follow-up in adults with severe alpha-1 antitrypsin deficiency (Pi*ZZ genotype): non-invasive fibrosis tests predict liver-related endpoints
Malin Fromme (Aachen, Germany), Samira Amzou, Barbara Burbbaum, Philipp Striedl, Mattias Mandorfer, Monica Pons, Joan Genesca, Marc Miravitlles, Elmar Aigner, Christian Trautwein, Pavel Strnad

PA2430 The effect of alpha-1 antitrypsin (AAT) augmentation therapy on the liver phenotype in individuals with homozygous Pi’ZZ AAT mutation (genotype Pi*ZZ)

PA2431 A1-ANTITRYPSIN DEFICIENCY IN GREEKS: FOCUS ON RARE VARIANTS

PA2432 Familiarity and use of ERN-LUNG centres for the management of Alpha 1 Antitrypsin Deficiency
Maria Campos Miranda DuarteSucena (Porto, Portugal), A. Rembert Koczulla, Maria Sucena

PA2433 Association between lung disease severity and cardiovascular event risk in alpha-1 antitrypsin deficiency
Daniella Spittle (Birmingham, United Kingdom), Anita Pye, Paul Ellis, Alice Turner

PA2434 Heterozygous alpha 1 antitrypsin mutations (HA1AT) and lung cancer (LC) in a chronic obstructive pulmonary disease (COPD) population.
Alfredo Marín Muñiz (Castelldefels, Spain), Lidia Méndez Mangas, Montserrat Navarro Rodriguez, Javier Burgos Lozano, Isabel Brao Pérez, Mónica Arelano Vengoechea, Marta López Sánchez, Susana Padrones Sánchez, Samantha Aso González, Salud Santos Pérez

PA2435 Diagnosing Alpha 1 Antitrypsin Deficiency in Europe – insights from a European survey
Maria Campos Miranda Duarte Sucena (Porto, Portugal), A. Rembert Koczulla, Joanna Chorostowska-Wynimko

PA2436 Clinical features of a severe asthma population eligible for biologics: a real life study
Sonia Garino (Leini, Italy), Elisa Riccardi, Andrea Sprio, Fabiana Giannoccaro, Andrea Baroso, Stefano Pizzimenti, Fabio Luigi Massimo Ricciardolo
Predictors of fixed airflow obstruction (FAO) in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC)
Vipula Bataduwaraarachchi (Portsmouth, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Clare Barber, Peter Howarth, Anoop Chauhan

Characteristics of patients and exacerbations in the ongoing Asthma: Phenotyping Exacerbations (APEX) studies.
Ashish Pradhan (Nottingham, United Kingdom), Robert Needham, Karen Shaw, Matthew Martin, Micheal Portelli, Ian Sayers, Tim Harrison

Infectious exacerbation of asthma
Salma Msika (Casablanca, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam El Khattabi, Hicham Afif

Clinical features of asthmatics with high serum total IgE
Martina Sciolla (Torino, Italy), Andrea Sprio, Andrea Baroso, Giulia Orpheu, Chiara La Sala, Antonino Di Stefano, Fabio Luigi Massimo Ricciardolo

Small airway dysfunction assessed by forced oscillation technique
Priyanka Singh (New Delhi, India), Nitin Ahuja, Aseem Yadav, Saurabh Tiwari

How consistent are blood eosinophil counts in a general population?
Sylvia Hartl (Wien, Austria), Marie Kathrin Breyer, Otto Burghuber, Caspar Schiffer, Patricia Puchhammer, Alina Olfen, Rebab Breker-Kohansal

Late Breaking Abstract - Developing a point of care (POC) breath test to accurately predict asthma exacerbations
Victor Higgs (London, United Kingdom), Hanya Ahmed, Jona Angelica Flavier, Farida Hegarzy

Late Breaking Abstract - Clinical differences between male and female SEO-COPD patients
Tessa Kole (Groningen, Netherlands), Jorine Hartman, Dirk-Jan Slobos, Maarten Van Den Berge

Predictors of severe COVID-19 among patients with uncontrolled asthma: a register-based study
Stina Selberg (Luleå, Sweden), Johanna Karlsson Sundbaum, Jon R. Konradsen, Helena Backman, Linea Hedman, Anne Lindberg, Caroline Stridsman

Symptoms persisting after hospitalization for COVID-19: 12 months interim results of the CO-FLOW study

COVID-19 infection in children through lung radiographic imaging changes
Oxana Munteanu (Chișinău (Chișinău), Republic of Moldova), Ana Goloborodio, Rodica Selevestru, Diana Rotaru-Cojocari, Corina Conica, Svetlana Siciuca

A fast point-of-care PCR test for infectious diseases, based on aerosol capturing.

COVID-19 in children: disease spectrum and risk factors
Enrica Mancino (Roma (RM), Italy), Raffaella Nenna, Greta Di Mattia, Luigi Matera, Laura Petrarca, Maria Giulia Conti, Antonella Frassanito, Domenico Paolo La Regina, Elio Stolino, Virgili Fabrizio, Mattia Spatuzzo, Sara Ialongo, Flaminia Bonci, Fabio Midulla

One-year dynamics of antibody titers after three doses of SARS-CoV-2 BNT162b2 vaccine
Anna Breslavsky (Rishon LeTsiyon (Center District), Israel), Amir Bar-Shai, Natalya Bilenko, Ori Wand
Acute Lower Respiratory Tract Disease (aLRTD) is a complex clinical syndrome causing significant disease burden in a prospective cohort study.

Catherine Hyams (Bristol, United Kingdom), Elizabeth Begier, Jo Southern, Jade King, Anna Morley, Zsuzsa Szasz-Benczur, Maria Garcia Gonzalez, Jane Kinney, James Campling, Sharon Gray, Jennifer Oliver, Robin Hubler, Srinivas Valluri, Andrew Vyse, Gillian Ellsburry, John McLaughlin, Bradford D Gessner, Adam Finn


Yong Suk Jo (Seoul, Republic of Korea), Hyun Lee, Hayoung Choi

Standardized 3- and 12-months imaging and clinical-functional pulmonary follow-up in patients hospitalized for COVID-19

DAVIDE CHIMERA (Pisa, Italy), Francesco Pistelli, Laura Tavanti, Giovanna Manfredini, Chiara Romei, Annalisa De Liperi, Ferruccio Aquilini, Micol Micheli, Alessandro Celi, Roberta Pancani, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabbielli, Laura Carrozzi

Correlation between post-vaccination titres of anti-Spike antibodies and protection against breakthrough SARS-CoV-2 infection in 7530 UK adults

Giulia Vivaldi (Romford, United Kingdom), David A. Jolliffe, Sian Faustini, Hayley Holt, Mohammad Talaei, Florence Tydeman, Alex G. Richter, Seif O. Shaheen, Adrian R. Martineau

One-year physical recovery in patients admitted to ICU and ward for COVID-19

Julia Berentschot (Rotterdam, Netherlands), Majanka Heijenbrok-Kal, Martine Bek, Gerard Ribbers, Joachim Aerts, Rita Van Den Berg-Emons, Merel Hellemans

Trends on pneumococcal and all-cause pneumonia incidence in Catalonian adults after universal PCV13 implementation in children.

cinta de diego cabanes (tarragona, Spain), Angel Vila-Córcoles, Eva Satué-Gracia, Olga Ochoa-Gondar, Angel Vila-Rovira, Domingo Ribas-Seguí

Post COVID syndrome in health care workers in Tunisia: is there any correlation with SARS-CoV-2 IgG level?

Ons Grissa (Tunis, Tunisia), Amani Dallagi, A Benzarti, Meriem Mjij, safe marzouki, Maya Zribi, Mnel Battikh, Imen Ismail, Nawel Khouja, Janet Hssinet, Mm Sallemi, Lam Laadhar, Besma Dhahri, Abir Ben Jema

Epidemiology analysis of bacterial co-infections in SARS-CoV-2 community-acquired pneumonia (CAP)

Alina V. Martynova (Kiev, Ukraine), Olga S Pavlova, Svetlana Uskova

Respiratory Outcomes in COVID-19 patients 3-6 months after admission to Public Health Hospital Maciel. Montevideo, Uruguay. A Follow up Cohort Study.

Jimena Nuñez Artigas (Montevideo, Uruguay), Monica Mamchur, Cecilia Chao, Cecilia Rodriguez Flores, Edilberto Pacheco, Analia Tempone, Karen Rabuñal, Carolina Silva, Fernando Gimenez, Ana Ines Gruss, Cecilia Acosta, Victoria Iraola, Maria Victorina Lopez Varela

Recurrent community-acquired pneumonia hospitalizations: Characteristics description in a 9-year follow-up period

Ezequiel Pessoa (Lisbon, Portugal), Cristina Bábara, Andreia Costa, Paulo Jorge Nogueira

Prospective cohort study of adults hospitalised with acute COPD exacerbations: SARS-CoV-2-associated patient characteristics and clinical outcomes

Catherine Hyams (Bristol, United Kingdom), George Nava, Elizabeth Begier, Jo Southern, Jade King, David Adegbite, Leah Fleming, Jennifer Oliver, Jennifer L Nguyen, Bradford D Gessner, John M McLaughlin, Adam Finn, James Dodd

Morbidity and mortality associated with COVID-19 patients from Luanda, Angola

Margarete Lopes Teixeira Arrais (Luanda, Angola), Welwitschia Dias, Maura Silva, Luquenia Neto, Naiol Pedro, Sónia Juego, Avelina Miguel, Elsa Fortes-Gabriel, Cruz S. Sebastião, Jorge M.R. Gama, Miguel Brito

Impact of the COVID-19 pandemic on Swedish asthma and COPD care

Caroline Stridsman (Luleå, Sweden), Jon R Konradsen, Bill Hesselmar, Anne Lindberg, Lowie E.G.W Vanfleteren

Thematic poster: Environment and air pollution

Session 298

13:00 - 14:00

Disease(s): Airway diseases

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

Chairs: Christopher Carlsten (Vancouver (BC), Canada), Mª Jesus Cruz Carmona (Barcelona, Spain)
PA2465  Air pollution and disease in a population living in a small city in Brazil  Marilyn Urrutia Pereira (Uruguay (RS), Brazil), Lucas Pitrez Mocellin, Veronica Riquelme Martinez, Paulo Oliveira Lima, Laiza Marques Baida, Herberto Chong-Neto, Dirceu Solé

PA2466  The immunomodulatory and inflammatory effects of the inhalation of diesel particles in a murine model of healthy mice  David Soler Segovia (Barcelona, Spain), Miquel De Homdedeu, Silvia Sanchez Diez, Cristian Moreno Mesones, David Espejo Castellanos, Xavier Muñoz Gall, Maria Jesús Cruz Carmona

PA2467  An Observational study on Ambient Air Pollution and hospital visits of patients at tertiary care hospital in North Chennai  Vengada Krishnaraj (Chennai, India)

PA2468  Exposure to air pollution and allergic diseases in adults  Giovanni Viegi (Pisa (PI), Italy), Sara Maio, Federico Pirona, Sofia Tagliaferro, Salvatore Falosa, Alessandro Marcon, Giuseppe Sarno, Claudio Gariazzo, Massimo Stafoggia, Stefania La Grutta, Giuseppe Verlato, Sandra Baldacci

PA2469  Influence of overweight/obesity, lifestyle and grey space on asthma in Italy  Giovanni Viegi (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Federico Pirona, Sofia Tagliaferro, Giuseppe Sarno, Sara Maio, Stefani La Grutta, Laura Montalbano, Salvatore Falosa, Velia Malizia, Isabella Annesi-Maesano, On Behalf Of The Earlyfood Collaborative Group

PA2470  Asthma control and hot weather-related respiratory symptoms  Maritta S. Jaakkola (Oulu, Finland), Henna Hyrkäs-Palmu, Jouni K.J. Jaakkola

PA2471  Asthma phenotypes as an effect of childhood upbringing  Regine Abrahamsen (Skien, Norway), Geir Klepaker, Kjell Torén, Paul K. Henneberger, Johny Kongerud, Anne Kristin Møller Fell

PA2472  Relationship between climatic factors and emergency department visits for respiratory diseases  Jacopo Davide Giamello (Busca, Italy), Remo Melchior, Luca Bertolacini, Cristian Rendina, Paolo Caraccio, Massimo Rega, Serena Capriotti, Tania Prinzis, Tiziana Ponza, Salvatore Franco, Daniele D'Arrigo, Giuseppe Lauria

PA2473  Medical record review of acute childhood wheeze presentations, air pollution and deprivation  Emma Wilkinson (Liverpool, United Kingdom), Paul Mcaormara

PA2474  Air pollution and incidence of adult-onset eosinophilic airway disease  Janneke Pepels (Leeuwarden, Netherlands), Edith Visser, Anneke Ten Brinke, Kim De Jong

PA2475  Climate change and COPD severity: a pilot study in Taiwan  Hsiao-Chi Chuang (Taipei, Taiwan), Minh Tran Huan, Tzu-Tao Chen, Yueh-Hsun Lu, Kuan-Yuan Chen, Shu-Chuan Ho, Chih-Da Wu, Kang-Yun Lee

PA2476  Association between residential green space and development of allergic rhinitis up to 12 years of age: a population-based birth cohort study  Inês Paciência (Oulu, Finland), Aino K. Rantala, Harri Antikainen, Timo Hugg, Maritta S. Jaakkola, Jouni J.K. Jaakkola

PA2477  Children and air pollution monitoring  Abigail Whitehouse (London, United Kingdom), Lindsay Zurba, James Ngocho, Sindisiwe Dladla, Julieth Sebba, Ronald Mbwasi, Gioia Mosler, Bibie Said, Blandina Mmbaga, Refiloe Masekela, Jonathan Grigg

PA2478  Prenatal exposure to air pollution: a susceptibility factor to develop Chronic Obstructive Pulmonary Disease (COPD)?  Zhuyi Lu (Villejuif, France), Cristina De Franceschi, Mathieu Cazaunau, Antonin Berge, Elie Al Marj, Audrey Der Vartanian, Rachid Souktani, Abdel Aissat, Bruno Costes, Patrice Coll, Sophie Lanone

PA2479  Impact of air pollution and emphysema on cardiovascular and hemodynamic features  Quentin WYNANDS (Montpellier, France), Olivier Cazorla, Fares Guouzi, Pierre-Edouard Grillet, Arnaud Bourdin

PA2480  Associations between ambient air pollution and chronic cough in middle-aged adults.  Sabrina Idrose (Australia, Australia), Jingwen Zhang, Caroline Lodge, Anne Chang, Luke Knibbs, Michael Abramson, E. Haydn Walters, Dinh Bui, Bircan Erbas, Peter Frith, Jennifer Perret, Shyamali Dharmage
### PA2483

**Short term exposure to respirable smoke extracts from indoor cooking in Nepal leads to altered human airway epithelial cell (AEC) gene expression, DNA methylation (mC) and hydroxymethylation (hmC)**

Poojitha Rajasekar (Nottingham, United Kingdom), Robert Hall, Binaya K C, Parth Sarathi Mahapatra, Siva Praveen Puppala, Dhruma Thakker, Julie Macisaae, David Lin, Michael Kobar, Charlotte E Bolton, Ian Sayers, Ian Hall, Rachel Clifford

### PA2484

**Long-term exposure to air pollution and incidence of adult-onset asthma and COPD: systematic review and meta-analyses**

Jiawei ZHANG (Copenhagen, Denmark), Shuo Liu, Youn-Hee Lim, George Thurston, Haneen Khreis, Barbara Hoffmann, Susan Anenberg, Bénédicte Jacquemin, Mark J Nieuwenhuijsen, Zorana Jovanovic Andersen

### TP-15 in thematic poster area

**Session 299  13:00 - 14:00**

**Thematic poster: Assessment and follow-up of cystic fibrosis lung disease in children**

**Disease(s):** Airway diseases

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

**Chairs:** Alexander Möller (Zürich, Switzerland), Mirjam Stahl (Berlin, Germany)

#### PA2485

**Estimating the minimum sample size for interventional research using the lung clearance index**

Cole Bowerman (Hamilton, Canada), Felix Ratjen, Sanja Stanojevic

#### PA2486

**Longitudinal LCI in infants with CF using a portable multiple breath washout (LIMBuS study)**

Claire Nissenbaum (manchester, United Kingdom), Daniel Weiner, Laura Healy, Anna Shawcross, Catherine Fullwood, Rebecca Thursfield, Clare S Murray, Alexander Horsley

#### PA2487

**Respiratory symptom scores to capture acute respiratory events in children with cystic fibrosis**

Lucy Perrem (Toronto (ON), Canada), Sanja Stanojevic, Michelle Shaw, Melinda Solomon, Hartmut Grasemann, Neil Sweeney, Valerie Waters, Stephanie Davis, D.B Sanders, Felix Ratjen

#### PA2488

**Impact of Pseudomonas aeruginosa antibiotic eradication therapy on lung function decline in cystic fibrosis**

Isabel Gascon Casaredi (Barcelona, Spain), Michelle Shaw, Valerie Waters, Ryan A. Seeto, Ana C. Blanchard, Felix Ratjen

#### PA2489

**Automated airway-artery analysis on chest CT confirms positive effect of inhaled hypertonic saline in preschool children with cystic fibrosis**

Yuxin Chen (Rotterdam, Netherlands), Qianting Lv, Eleni-Rosalina Andrinopoulou, Leticia Gallardo-Estrella, Jean-Paul Charbonnier, Daan Caudri, Stephanie Davis, Margaret Rosenfeld, Felix Ratjen, Richard Kronmal, Karen Hinckley Stukovsky, Stephen Stick Stick, Harm Tiddens

#### PA2490

**The clinical effectiveness and validity of home spirometry in children with cystic fibrosis**

Philip Lawrence (Liverpool (Merseyside), United Kingdom), Sarah Mayell, Rebecca Thursfield

#### PA2491

**Lung ultrasound value in cystic fibrosis consolidation and atelectasis detection**

Diana Popin (Timisoara, Romania), Ioana Mihaiea Ciucu, Mihaela Dediu, Emil Robert Stoicescu, Liviu Laurentiu Pop

#### PA2492

**Characterization of a signal-correction error in a commercial multiple-breath washout device**

Marc-Alexander Oestreich (Bern, Switzerland), Florian Wylser, Blaise Etter, Kathryn Ramsey, Philipp Latzin

#### PA2493

**Lung clearance index and nutritional status in cystic fibrosis children**

Mihaela Dediu (Timisoara, Romania), Diana Popin, Liviu Laurentiu Pop, Ioana Mihaiea Ciucu

#### PA2494

**Comparison of sensor crosstalk-corrected N2 versus SF6 multiple breath washout outcomes**

Felix Ratjen (Toronto (ON), Canada), Angel Panthanourak, Renee Jensen, Michelle Shaw, Roxy Chen, Fatima Adil, Denisa Nithithiyankanad, Sanja Stanojevic

#### PA2495

**Feasibility of telehealth spirometry for patients with cystic fibrosis in a regional setting**

Elpis Hatzziagorou (Thessaloniki, Greece), Athina Sopiadou, Christos Kogias, Maria Gioulvanidou, Elisavet-Anna Chrysochoou, Ioustini Kalaitzopoulou, Pauline Pefout lidou, John Tsanakas
One-Year Follow-Up of Cystic Fibrosis Patients Who Cannot Reach the Modulator Therapies Although Having Indications: What are Their Losses?


The effect of breathing exercise on the quality of life of 3-12 years old childrens with cystic fibrosis and their families

Mine Kalyoncu (İstanbul, Turkey), Hakan Mursaloğlu, Zuhal Yerlikaya, Cansu Yılmaz Yeğit, Mürüvvet Yanaz, Aynur Gulieva, Burcu Uzunoğlu, Gamze Taştan, Almala Pınar Ergenekon, Ela Erdem Eralp, Yasemin Gökdemir, Fazilet Karakoç, Bülent Karadağ

Increased diagnostic value of LCI in pulmonary exacerbations in cystic fibrosis paediatric patients using the corrected Exhalyzer software.

Irena Wojsyk-Banaszak (Poznań, Poland), Barbara Więckowska, Zuzanna Stachowiak, Marta Andrzejewska, Aleksandra Szczepankiewicz

Assessing the utility of home spirometry for managing children with cystic fibrosis during COVID-19 pandemic

Binu George Babu (Walsall, United Kingdom), Brinderjeet Heyeer, Ciaran Mcardle, Benjamin Davies, Prasad Nagakumar, Maya Desai

The efficacy of inhaled hypertonic saline in children with cystic fibrosis who receive daily DNase.


Pulmonary complications in children with primary immunodeficiency disorders

ECE OCAK (ANKARA, Turkey), Sule Selin Soydaş, Murat Yasın Gencoğlu, Salih Uyyun, Sait Özkan Tabakçı, Göğen Dilşa Tuğcu, Sanem Eryılmaz Polat, Ayşe Metin, Güzin Cinel

Comparison of lung ultrasonography and magnetic resonance imaging versus chest computed tomography in patients with pulmonary alveolar microlithiasis

Mina Hizal (Ankara, Turkey), İlkin Elif Gunes, H. Nursun Ozcan, Berna Oguz, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Uğur Özçelik, Mithat Haliloglu, Nural Kiper

Do lower airway infections occur concomitant or subsequent to upper airway infections in children with primary ciliary dyskinesia (PCD)?

Jisha Dhanik (Leicester, United Kingdom), Marzia Nazari, Rajinder Kang, Liam Causon, Priti Kenia, Alison Claydon, Manjith Narayanan

Association between airway pathogens and lung function in children with Primary Ciliary Dyskinesia (PCD) - a longitudinal study

Marzia Nazari (Leicester, United Kingdom), Jisha Dhanik, Priti Kenia, Liam Causon, Rajinder Kang, Alison Claydon, Manjith Narayanan

Evaluation of respiratory problems in children with Down syndrome

Pelin Asfuroğlu (Ankara, Turkey), Tuğba Ramasli Gursoy, Tuğba Sismanlar Eyüboğlu, Ayşen Süleyman, Tuğba Şimşanlar Eyüboğlu, Sevgi Pekcan, Nazan Çobanoğlu, Erkan Çakır, Uğur Özçelik, Deniz Doğru

The role of Flexible bronchoscopy in the evaluation and outcome of children with chronic cough: 20-year experience

Elpis Hatzigiorou (Thessaloniki, Greece), Christos Lilos, Fotios Kirvassilis, John Tsanakas

Thematic poster: Hot topics in paediatric bronchology

Session 300

Thematic poster: Hot topics in paediatric bronchology

Disease(s) : Airway diseases Intersitial lung diseases

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

Chairs : Raffaella Nenna (Rome, Italy), Dirk Schramm (Düsseldorf, Germany)
Hypertensive pneumothorax with cystic lesions in a newborn
Michele Ghezzi (Bergamo, Italy), Rossella Lamberti, Francesca Riccaboni, Giulia Canali, Alessandra Zenga, Andrea Farolfi, Enza D'Auria, Gian Vincenzo Zuccotti

Recurrent respiratory infections in Down Syndrome: keep in mind bronchoscopy
Michele Ghezzi (Bergamo, Italy), Raffaella De Santis, Laura Gianolio, Francesco Bergamaschi, Andrea Farolfi, Laura Fiori, Enza D'Auria, Gian Vincenzo Zuccotti

Structured light plethysmography (SLP) in children after lung surgery
Michele Ghezzi (Bergamo, Italy), Luisa Abbattista, Anna Dighera, Valeria Calcaterra, Sara Costanzo, Annalisa De Silvestri, Andrea Farolfi, Enza D'Auria, Gloria Pelizzo, Gian Vincenzo Zuccotti

Is genotype a guide for phenotype in primary ciliary dyskinesia?
Pelin Asfuroglu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Tugba Ramasli Gursoy, Gulsum Kayhan

Comparison of bronchoalveolar lavage and upper respiratory tract cultures in children with chronic endobronchial infection
Maria Eleni Papakonstantinou (Athens, Greece), Konstantinos Douros, Stylianos Chatzipanagiotou, Alexandra Krontsi, Elpiniki Kartsiouni, Georgia Karkouli, Angeliki Galani

Primary ciliary dyskinesia: genotype characterization and lung function in a group of Italian patients
Laura Petrara (Roma (RM), Italy), Valentina Guida, Giuseppe Cimino, Raffaella Nenna, Francesca Piceci-Sparascio, Maria Giulia Conti, Antonella Frassanito, Enrica Mancino, Greta Di Mattia, Domenico La Regina, Carlo Cappelli, Alessandro De Luca, Fabio Midulla

Flexible bronchoscopies in a UK tertiary paediatric respiratory unit -3 year follow up
Mihaela Diaconu (London, United Kingdom), Hani Gowai, Omer Adam, Hemant Kulkarni

Laryngeal Sensation in Children with Dysphagia and Neurological Impairment
Nadine Freitag (Krefeld, Germany), Dirk Schramm

Cryotherapy in pediatric airway
Dirk Schramm (Düsseldorf, Germany), Nadine Freitag, Karsten Kötz, Ignacio Iglesias-Serrano, Mario Culebras-Amigo, Vladimir Kobliżek, Santiago Pérez-Tarazona, Enrique Cases Viedma, Jt Srikanta, Peter Durdik, Kaid Darwiche, Sune Rubak, Patrick Stafler

Non-cystic fibrosis, non-primary ciliary dyskinesia bronchiectasis (nCFnPCD-BE) in preschool children
Kanwal Jehanzeb (Birmingham, United Kingdom), Christopher Hine, Hollie Smith, Naomi Parsons, Maya Desai, Priti Kenia, Prasad Nagakumar

Reliability of three functional tests via remote assessment for Post–Covid-19 patients
Aspasia Mavronasou (Megara, Attica, Greece), Andreas Asimakos, Vassilis Vlahakos, Paraskevi Katsaounou, Eleni Kortianou

Improved peak exercise performance after 12 weeks of pulmonary rehabilitation in patients post COVID-19
Thierry Troosters (Leuven, Belgium), Stephanie Everaert, Iris Coosemans, Lode Claes, Heleen Demeyer, Tim Vanhoutte, Lies Glorie, Natalie Lorent, Wim Janssens

Effect of pulmonary rehabilitation on functional capacity and emotional status in patients with long COVID-19 syndrome: an interim analysis
Nikolaos Chynkiamis (Illion, Greece), Angelos Vontetsianos, Christina Anagnostopoulou, Zoe Sotiropoulou, Stavrina Zaneli, Foteini Karakontaki, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Effect of a self-managed home-based rehabilitation programme for the reduction of dyspnea in non-hospitalised subjects with post-COVID-19 condition: a pilot study
Simone Salvitti (Martignacco, Italy), Angela Doretto, Cristina Verrone, Louise Marin
Additive effects of rehabilitation on natural recovery of functional capacity post COVID-19.
Andreas Asimakos (Athens, Greece), Stavroula Spetsioti, Ioannis Vogiatzis, Aspasia Mavromarasou, Pandelis Gounopoulos, Dimitra Siosiou, Efi Dima, Niki Gianiou, Ioanna Sigala, Spyros Zakynthinos, Anastasia Kotanidou, Paraskevi Katsaounou

Does virtual group treatment improve symptoms of breathlessness in the post COVID-19 patient population?
Rebecca Gore (Rochester, United Kingdom), Lauren Williamson, Terence Elliott-Cooper, Katerina Roze, Gita Ramdharry, Melissa Heightman, Toby Hillman, Rebecca Livingston

The effects of COVID-19 infection on respiratory muscle strength and trunk muscle endurance in healthy individuals
Ildeniz Yalniz (İstanbul, Turkey), Mehmet Alperen Pekdas, Elif Develi, Yasar Keskin

The effect of strengthening and relaxation exercises on pain, anxiety and sleep quality in people with COVID-19
Seda Saka (İstanbul, Turkey), Berat Keskin

Clinical profile, symptomatology and sequelae of long-COVID patients
Laura Lopez Lopez (Granada, Spain), Irene Cabrera Martos, Irene Torres Sánchez, Javier Martín Núñez, Alejandro Heredia Ciurò, Marie Carmen Valenza

Physical and respiratory function of people following hospital discharge for COVID-19
Isis Grigoletto (Parapozinho, São Paulo, Brazil), Fabiano Francisco De Lima, Rafael Mesquita, Paloma Borges, Matheus André Pedroso, Beatriz Da Silva Coutinho, Karina Marcela Morro Pozo, Vinicius Cavalheri, Ercy Mara Cipulo Ramos

Comparison of clinical aspects according to the Post Covid Functional Status Scale in patients after COVID-19.
Rodrigo Torres Castro (Barcelona, Spain), Vicente Benavides Córdoba, Diana Guerrero-Jaramillo, Juan Carlos Avila-Valencia, Jhonatan Betancourt-Peña

Implementation of pulmonary rehabilitation in post-COVID19 in Latin America: 18 months later.
Rodrigo Torres Castro (Barcelona, Spain), Vicente Benavides Córdoba, Marisol Barros-Poblete, Rodolfo P Vieira, Guillermo Mazzucco, Guilherme Fregonezi

Physical therapists' opinions on the effect of the COVID-19 pandemic on physical therapy management in government and private hospitals in Thailand: Preliminary results of a survey
Sauwaluk Dacha (Chiang Mai, Thailand), Busaba Chuatrakoon, Arisa Parameyong, Chanoknun Chalermino, Nuttanicha Thumpunya

Functionality in healthcare workers with COVID-19 in Cali (Colombia)
Lina Marcela Orozco Mejia (Cali, Colombia), Diana Guerrero Jaramillo, Francia Torres, Julian Rivera Motta, Vicente Benavides Córdoba

Pulmonary telehealth rehabilitation in patients with chronic respiratory diseases during the pandemic by COVID-19 in Argentina. A multicenter observational study.
Santiago Larrateguy (Paraná, Argentina), Guillermo Mazzucco, Silvina Dell’éra, Rodrigo Torres-Castro, Nicolas De Carlo, Gonzalo Turon, Belen Quiroz, Belen Santa Cruz, Florencia Fernandez, Carla Viola, Marcelo Alvarez, Anabella Cerda, Claudio Gonzalez, Laura Fragoso, Analia Resguardo, Janina Lebus, Rita Lantschiner, Walter Schweimer, Laura Carrizzo

Physiotherapy outcomes for treating breathing pattern disorder during the COVID-19 pandemic
Claire Somerton (Manchester, United Kingdom), Rebecca Barnes, Nicola Pott, Reyenna Sheehan, Emmeline Maidment-Fullard, Jayne Ellison, Siobhan Ludlow, Stephen Fowler

Late Breaking Abstract - Twenty months follow-up in non-hospitalised adults with post COVID-19 condition: a preliminary longitudinal cohort study
Carl Emil Hallberg (Stockholm, Sweden), Anna Törnberg, Anna Svensson-Raskh, Elisabeth Rydwik, Mikael Björnsson, Michael Runold, Judith Bruchfeld, Malin Nygren-Bonnier

Pilot of a therapist-guided internet-delivered cognitive behavioral therapy intervention for anxiety and depression (eHealth CF-CBT) in Dutch adults with cystic fibrosis
Marieke Verkleij (Amsterdam, Netherlands), Anna Georgiopoulos, Heleen Barendrecht, Deborah Friedman
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<td>PA2537</td>
<td>Using The Activity Barometer (TAB) to assess patient participation in diagnostic consultations</td>
<td>Jannie Frølund, Ingeborg Farver-Vestergaard, Helle Poulsen, Ole Hilberg, Anders Løkke</td>
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<td>PA2538</td>
<td>Asthma expectations predict symptoms over time: a longitudinal cohort study</td>
<td>Eleonora Volpato, Francesco Pagnini, Valentina Poletti, Cesare Cavalera, Francesca Graziano, Francesca Spina, Paolo Banfi</td>
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<td>PA2539</td>
<td>Smoking cessation support in a hospital-based healthcare setting: the provider perspective</td>
<td>Ingeborg Farver-Vestergaard, Peter Hjorth, Anders Løkke</td>
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<td>PA2540</td>
<td>Neural processing of respiratory sensations during resistive load-induced dyspnea in patients with COPD</td>
<td>Lucas Vanden Bossche, Ysys Denute, Thomas Reijnders, Paul W. Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt</td>
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<td>PA2541</td>
<td>Relationship between COVID-19 consequences and subjective distress 6 months after hospitalization</td>
<td>Anna Boros, Magdalena Martusewicz-Boros, Piotr Boros, Andrzej Nowak</td>
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<td>PA2542</td>
<td>Patterns of psychological conditions presenting to a severe asthma psychology service</td>
<td>Hanan Hussein, Jodie Fellows, Julie Marsh, Ali Bahron, Adel Mansur</td>
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<td>PA2543</td>
<td>What do people with asthma think about switching to a more environmentally friendly inhaler?</td>
<td>Gramme d’Ancona, Khansa Sethi, Natalie Holman, Myfanwy Morgan, Lottie Renwick, Andrew Cumella, Samantha Walker, John Weinman</td>
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<td>PA2546</td>
<td>Heart rate variability in post-COVID-19 patients with different anxiety levels.</td>
<td>Vicente Baltazar, Viridiana Pelaéz-Hernández, Fernando Casarín-López, Celia Deyanira Ledesma-Ruiz, Adrián Rosas-Trujillo, Norma Camacho-Mendoza</td>
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<td>PA2547</td>
<td>Sleep disturbances in post-Covid patients as a function of sex.</td>
<td>Celia Ledesma, Viridiana Pelaéz-Hernández, Guadalupe Lizzbett Luna Rodríguez, Adrián Rosas-Trujillo, Norma Camacho-Mendoza, Vicente Baltazar-Chávez, Arturo Orea-Tejeda</td>
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<td>PA2548</td>
<td>Comparable neural gating of respiratory sensations during increasing dyspnea across different qualities of dyspnea</td>
<td>Ysys Denute, Guadalupe Lizzbett Luna Rodríguez, Adrián Rosas-Trujillo, Vicente Baltazar-Chávez, Arturo Orea-Tejada, Celia Deyanira Ledesma-Ruiz, Adrián Rosas-Trujillo, Norma Camacho-Mendoza</td>
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<td>PA2550</td>
<td>Pain, fatigue and psychological sequelae in patients surviving COVID-19: results from a prospective observational controlled study</td>
<td>Sarah Elizabeth O'Donnell, Giuseppe Croce, Francesca Mandurino Mirizzi, Elisa Franceschi, Walid Karimeh, Fabio Giuliani, Dejan Radovanovic, Pierachille Santos</td>
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<td>PA2551</td>
<td>Psychological affect in surviving patients of COVID-19, consideration of the use of invasive mechanical ventilation.</td>
<td>Celia Ledesma, Fernando Casarin-López, Vicente Baltazar Chávez, Viridiana Pelaéz Hernandez, Arturo Orea Tejada, Guadalupe Lizzbett Luna Rodriguez, Norma Camacho-Mendoza</td>
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<td>PA2552</td>
<td>Cognitive impairment as a sequel to SARS-CoV-2 infection.</td>
<td>Adrian Rosas Trujillo, Fernando Casarin López, Vicente Baltazar Chávez, Viridiana Pelaéz Hernández, Arturo Orea Tejada, Guadalupe Lizzbett Luna Rodriguez, Norma Camacho-Mendoza</td>
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<td>PA2553</td>
<td>Technology-supported shared decision-making in chronic conditions: preliminary results of a systematic review</td>
<td>Roswita Vaseur, Eline Te Braake, Tessa Beinema, Wendy Oude Nijeweme, Monique Tabak</td>
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Late Breaking Abstract - Provision of mental health care to healthcare workers during COVID-19: A call for the practice of vulnerability
Jacqueline Hoare (Cape Town, South Africa)

Thematic poster: COVID experience globally

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

**Method(s):** Epidemiology, Pulmonary function testing, General respiratory patient care, Public health, Pulmonary rehabilitation, Imaging, Cell and molecular biology, Endoscopy and Interventional pulmonology, Respiratory intensive care

**Chairs:** Natalie Lorent (Leuven, Belgium), Melissa McDonnell (Oranmore (Co Galway), Ireland)

**Sero-prevalence of COVID-19 among out patients with chronic respiratory disease in a tertiary care hospital in India**
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India)

**Profile of patients hospitalized during the Omicron wave at Hassan II Agadir hospital**
Abdelmajid Oulahbib (agadir, Morocco), Houda Moubachir, Hind Serhane

**COVID-19 cardiopulmonary pathology and clinical trajectories: Insights from a community-based autopsy series.**
Joaquim Majo (Newcastle Upon Tyne, United Kingdom), Luke Milross, Julian Pulle, Sam Hoggard, Nigel Cooper, Bethany Hunter, Christopher Duncan, Andrew Filby, Andrew Fisher

**Recovery work, social and functional by 3 months of discharge in patients hospitalized for pneumonia by SARS-CoV2. Relación con la terapia recibida**
Cesar Reyes (Vina del Mar, Chile), Tomas Silva, Mónica Gutiérrez, Dominique Boisier, Felipe Martinez, Mario Santamarina, Diego Zuñiga, Marcela Gutiérrez, Sebastian Ahumada, Claudia Valenzuela, Ivó Lopez

**Outcome of hospitalized COVID-19 patients with underlying respiratory illness in second and third wave.**
Jayalakshmi T.Kutty (Mumbai (Maharashtra), India), Bhumi Madhav, Dhanaji Revande, Gokul Bathe

**Religiosity and mental health consequences of COVID-19 pandemic**
Stefan-Marian Frent (Timisoara, Romania), Maria Frent, Alexandru-Filip Popovici

**Burnout syndrome among Tunisian medical professionals during the COVID 19 pandemic**
Abid Sourour (Sfax, Tunisia), Nour Gargouri, Rahma Gargouri, Dorra Gharbi, Ahmed Dha Elleuch, Sabrine El Fidha, Walid Feki, Samy Kammoun

**B.1.1.529 versus B.1.617.2 variants of severe acute respiratory syndrome coronavirus virus 2: Is there any difference between hospitalization, intensive care unit treatment and mortality rates?**
Emine Kamiçagi (lefkosa, Cyprus), Birdal Cihangir

**Clean air, verandas and human contact in the battle against COVID-19; A timeless approach.**
Elli Keramida (Athens, Greece), Despoina Zorpidou, Antigoni Vasilarea, Georgia Hardavella, Spyridon Mazarakis, Irma Bracka, Maria Salomidou, Theodoros Daskalos, Panagiotis Demertzis

**Characterising SARS-CoV-2 transmission via aerosols and effective sampling methods for surveillance**
Hisham Waziri (London, United Kingdom), Gopinath Kalaiarasan, Rebecca Wawman, Faye Hobbs, Gloria Young, Emma Ransome, Ian Adcock, Pankaj Bhavsar, Vincent Savolainen, Alexandra Porter, Prashant Kumar, Kian Fan Chung

**Comparison of the impact of ethnicity on clinical outcomes of COVID-19 patients in the United Kingdom across two waves of the pandemic**
Jesmith Perumbalath (London, United Kingdom), Jithin Selvaraj, Adam Ailley

**Effect of the COVID-19 Pandemic on Bronchoscopy Indication and Bronchial Microbiology**
Felix Dubon (Munich, Germany), Julia Walter, Laura Sellmer, Kathrin Kahnert, Pontus Mertsch, Nikolaus Kneidinger, Katrin Milger-Kneidinger, Christian Schneider, Jürgen Behr, Amanda Tufman

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**COVID-19 and anxiety, the role of the uncertainty**
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Impact of post-COVID-19 lung damage on Respiratory function and HRQOL in Indians
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COVID-19 Outcome: A One Year Follow-Up Study of Patients who Recovered from COVID-19 at Lung Center of the Philippines
Marc Anthony Donguines (Las Piñas, Philippines), Pocholo Guadalupe, Racquel C. Ibañez Ibañez, Joven Roque Gongong

SARS-CoV-2 infection: a comparative study of waves.
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Persistent respiratory failure in severe COVID-19 patients - A tertiary centre experience in Kuala Lumpur, Malaysia.
Leng Cheng Sia (Kuala Lumpur, Malaysia), Chee Kuan Wong, Noreen Zhi Min Ooi, Wai Yee Chan, Yong-Kek Pang, Chong Kin Lian, Chun Ian Soo, Jiunn Liang Tan, Mau Ern Poh, Ka Kiat Chin, Thian Chee Loh, Nur Husna Ibrahim, Vijayan Munusamy

Excess mortality in India during the COVID 19 pandemic.
Subramanian Natarajan (Mumbai (Maharashtra), India), Poonam Subramanian

Thematic poster: Pulmonary rehabilitation and COVID-19

Evolution of symptoms and radiological lesions of patients affected by SARS-Cov-2 after acute infection
Nourchene Khalfallah (Rades, Tunisia), Emna Ben Jemia, Nawres Brahmi, Siwar Rejeb, Mariem Nouira, Jihene Ben Amar, Haifa Zaiib, Hichem Aouina

Effects of pulmonary rehabilitation in post-COVID syndrome.
Janos Tamas Varga (Budapest, Hungary), Zsofia Szarvas, Monika Fekete, Vince Fazekas-Pongor, Kinga Pete, Renata Cserjesi, Regina Bakos, Orsolya Gobel, Renata Pinter, Zsuzsanna Kovats, Gabor Horvath, Veronika Muller

Effects Of An Early Rehabilitation Program In COVID-19 Patients Weaned From Non-Invasive Mechanical Ventilation: The Experience Of A Respiratory Subintensive Unit
Elena Sciarrillo (Napoli, Italy), Salvatore Musella, Anna Anunziata, Maria Rosaria Gioia, Giuseppe Fiorentino

Pulmonary Rehabilitation in Post-COVID-19 Patients Improves Lung Function and Mechanics and Skeletal Muscle, and Immune Response
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Maysa A. R. Brandao-Rangel, Renilson Moraes-Ferreira, Anamei Silva-Reis, Claudio R. Frison, Luis V. F. De Oliveira, Regiane Albertini

Impact of Covid infection on clinical outcomes of hospitalized and outpatients: a matched case control study
Antoine El KIK (Beirut, Lebanon), Hind Eid, Albert Riachy, Eljo Mekkael, Karim Hoyek, Nabil Nassim, Georges Khayat, Ghassan Sleilaty, Moussa Riachy

The impact of comorbidities on recovery following hospitalisation from COVID-19.
Enya Daynes (Leicester, United Kingdom), Molly M Baldwin, Urvree Karsanj, Hamish Mcauley, William D-C Man, Rachael Evans, Sally J Singh, + On Behalf Of The Phosp Consortium

POST-COVID-19 FUNCTIONAL STATUS EIGHTEEN MONTHS AFTER POST-ACUTE PULMONARY REHABILITATION FOLLOWING DISCHARGE FROM INTENSIVE CARE UNIT
Nicoletta R. Morelli (Den Haag, Netherlands), Peter Klijn, Eline Bij De Vaate

Rehabilitation of work ability in patients acquiring COVID-19 in the workplace: a longitudinal study
Katharina Zwingmann (Chemnitz, Germany), Ivo Berger, Michael Stegbauer, Katrin Müller

Persistent Post-COVID: The first wave, one year after.
Sieshem M. Bindraban (Rotterdam, Netherlands), Emmely W. De Roos, Rick R. Fransman, Esther M.J. Van Noort, Marise J. Kasteleyn, Johannes C.C.M. In ‘T Veen
PA2584  Mapping UK healthcare pathways and rehabilitation provision for adults after a hospital admission with COVID-19. Linzy Houchen-Wolloff (Oakham (Leicestershire), United Kingdom), Charlotte Overton, Andrew Ibbetson, Archie Walters, Natalie Armstrong, Sally J Singh, Andrew Briggs, Rachael Evans


PA2586  Pulmonary rehabilitation outcome in patients recovering from COVID-19 disease. Davorka Mursic (Zagreb, Croatia), Tajana Julusic Gluncic, Dubravka Pelicaric, Zagorka Boras, Marta Korsic, Andrea Vukic Dugac, Miroslav Samarzija

PA2587  ‘Long covid’ is more common, underestimated, and ‘core’ health issue in post covid care setting: study of 6000 cases in tertiary care setting in India. Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Gajanan Gondhali, Rajesh Patil, Abhijit Acharya, Utreshwar Dhumal

PA2588  The role of vascular density in pulmonary rehabilitation of PASC patients. Kris Ides (Antwerpen, Belgium), Wendel Dierckx, Yinka De Meyer, Eline Lauwers, Maarten Lanclus, Jan De Backer, Wilfried De Backer

PA2589  Gender differences in symptoms and psychological burden in Long Covid patients: results of a comprehensive multidimensional assessment protocol. Guido Vagheggi (Volterra (PI), Italy), Francesca Marzetti Moro, Simone Meini, Mario Miniati, Giuseppa Levantno, Mauro Taccola, Roberto Andreini, Arli Veli, Giulio Bardi, Eugenia Panait, Elena Cini, Angelo Gemignani

PA2590  MULTIDIMENSIONAL ASSESSMENT OF DYSPNEA IN POSTCOVID PATIENTS REFERRED TO PULMONARY REHABILITATION. Miriam Dominguez Blasco (Sevilla, Spain), Cecilia López, María Dolores Domínguez, Antonio Yosvani, Rosa María Vázquez, Inmaculada Ortiz, Jose Antonio Rodriguez, Pilar Ceaudo

PA2591  Inspiratory muscle capacity in Long Covid. Jane Dickson (Dublin 4, Ireland), Eddy Ferrufino Rivera, Abilash Sahadevan, Seamus J. Linnane

PA2592  Exploring the Impact of Fatigue on Exercise Tolerance in Post-COVID Individuals. Jitten Bahia (Leicester, United Kingdom), Molly Baldwin M, Charlotte Carter-Lang, Emma Chaplin, Nikki Gardiner, Sally Singh J, Enya Daynes

PA2593  Patient-reported outcome measures 3 and 6 months after pulmonary rehabilitation following COVID-19. Markus Hayden (Bad Reichenhall, Germany), Matthias Limbach, Michael Schuler, Gabriele Schwarzl, Steffen Merkl, Karsten Botosch, Dennis Nowak, Konrad Schultz

PA2594  Late Breaking Abstract - Nebulization and COVID-19: Is the risk of spread actual? Christophe Thibon (Bruxelles, Belgium), Laurent Vecellio, Jean Christophe Dubus, Kabamba Benoit, Gregory Reychler

TP-20 in thematic poster Session 305

Thematic poster: COVID treatments

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

Method(s): General respiratory patient care, Public health, Respiratory intensive care, Epidemiology, Imaging, Cell and molecular biology, Physiology

Chairs: Nicolas Roche (Paris, France), Adrian Ceccato (Barcelona, Spain)


PA2596  A phase 3 study to evaluate the efficacy and safety of reparixin in severe COVID-19 pneumonia. Elizabeth Gavioli (New York, United States), Giovanni Landoni, Antonio Voza, Massimo Puoti, Nicola Coppola, Hana Akselrod, Enrico M. Minnella, Sophie Toya, Carolina Marsiglio, Francesco Sergio, Marcello Allegretti, Flavio Mantelli

PA2597  Efficacy and safety of garadacimab in patients with severe COVID-19. Alberto Papi (Cona, Ferrara, Italy), Renee Stapleton, Paul M Shore, Milaih Alexandru Bica, Younan Chen, Michael Larbig, Tobias Welte
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<td>Syed Rehan Quadery (Dublin, Ireland), Thomas John, Pallabi Sinha, Minakshi Bhattacharjee, Saswata Bose, Udas Chandra Ghosh, Boudhayan Bhattacharrya, Santanu Kumar Tripathi, Bibhuti Saha</td>
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<td>PA2603</td>
<td>Factors associated with non-invasive positive pressure ventilation failure in a COVID-19 Intermediate Care Unit</td>
<td>Inês Teixeira Farinha (Maia, Portugal), Alexandra Tenda Cunha, Filipa Costa</td>
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<td>PA2604</td>
<td>Tocilizumab reduces the need for mechanical ventilation in severe Coronavirus Disease 2019 (COVID19): the Greek Experience in a pragmatic clinical setting</td>
<td>Georgia Hardavella (Athens, Greece), Elena Bellou, Elli Keramida, Nefeli Papaioannou, Irma Bracka, Spiros Mazarakis, Ioannis Karampinis, Nikolaos Anastasiou, Xenophon Theiakos, Panagiotis Demertzis</td>
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<td>PA2605</td>
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<td>PA2606</td>
<td>Real-life prospective study on tocilizumab in severe COVID-19 infection</td>
<td>Lucy Power (Dublin, Ireland), Bianca Morarasu, Anam Sarfaraz, Ahmad Basirat, Hassan Rahman, Seamas Donnelly, Edward Moloney, Minesh Kooblall, Stephen Lane</td>
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<td>PA2607</td>
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<td>PA2608</td>
<td>No benefit of a prolonged course of corticosteroids in patients with COVID-19 secondary organizing pneumonia</td>
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<td>PA2609</td>
<td>Safety and efficacy of pamrevlumab (FG-3019) in patients with COVID-19 pneumonia: an open-label, randomized, parallel-arm phase 2 study</td>
<td>Giacomo Sgalla (Modena (MO), Italy), Gina Gualano, Paolo Maria Leone, Alessia Comes, Diana Verdirosi, Loona Poole, Elis Kouchakji, Fabrizio Palmieri, Luca Richeldi</td>
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<td>PA2611</td>
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**Pharmacokinetics and pharmacodynamics of imatinib in COVID-19 patients**
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**Early effectiveness and safety of a modified shorter all-oral regimen for MDR/RR-TB in China**
Naihui Chu (Beijing, China), Wenjuan Nie, Juan Du, Yufeng Liu, Qianhong Wu, Fei Ren, Qingshan Cai, Yaping Zhang

**Drug tolerance predicts clinical outcomes in mycobacterial lung infections**
Lucas Boeck (Basel, Switzerland), Alexander Jovanovic, Frederick Bright, Basil Wicki, Loïc Sauteur, Andreas Wüst, Dorothy M Gregono, Michael Tamm, Michael Abanto, Rachel Thomson, Scott Bell, Andres R Floto

**Multifocal tuberculosis in the immunocompetent patient**
Zakaria Laklaai (casablanca, Morocco), Khadija Chammoune, Nahid Zaghba, Hanane Benjelloune, Najiba Yassine

**Factors associated with sputum culture conversion in patients with multidrug-resistant tuberculosis**
Greta Musteikiene (Kaunas, Lithuania), Skaidrius Miliauskas

**Isoniazid-induced hepatotoxicity in latent tuberculosis patients**
Bruno S. Silva (Porto, Portugal), Nuno Faria, Inês Costa, Ricardo Reis

**Study of rifampicin and silver nanoparticle composite efficacy on rifampicin-resistant Mycobacterium tuberculosis strains**
Nino Kiria (Tbilisi, Georgia), Teona Avaliani, Nino Bablishvili, Nana Kiria, Giorgi Phichkhia

**Association between PD-L1 expression in monocytes and treatment outcomes in active pulmonary tuberculosis-human and animal model**
Jia-Yih Feng (Taipei, Taiwan), Chin-Chung Shu, Sheng-Wei Pan, Jung-Jyh Hung, Po-Kuei Hsu, Wei-Juin Su, Yuh-Min Chen

**Mathematical model for predicting the treatment effectiveness of MDR-TB based on Human-beta-defensin-1 level**
Olga Pogorelova (Kharkiv, Ukraine), Olga Shevchenko, Irina Ovcharenko, Olga Hovardosva, Olga Shvets

**Side effects of anti-tuberculosis treatment: comparison between combined and dissociated treatment**
Soumaya Bouchareb (Ksar Hellal, Tunisia), Marwa Ammar, Ameni Ben Salem, Soumaya Boujnah, Aya Zaara, Touil Imen, Leila Boussofia, Jalel Knani, Nadia Boudawar

**Usage of silver nanoparticles to restore Moxifloxacin efficacy for fluoroquinolone-resistant M.tuberculosis cultures.**
Teona Avaliani (Tbilisi, Georgia), Nino Kiria, Nino Bablishvili, Nana Kiria, Giorgi Phichkhia

**A retrospective study evaluating the effect of Prednisolone on the radiological sequelae of Tuberculous pleurisy**
Junyi Zhang (London, United Kingdom), Usmaan Ahmed, Lottie Brown, Owais Kadiwani, Ronan Breen, Parthipan Sivakumar

**Side of surgery in the management of lymph node tuberculosis**
amina abdelkhir (ben arous, Tunisia), Kaouter Ben Amara, Mahdi Abdennadher, Hazem Zribi, Adel Marghli

**Comparison of resolution of Tuberculous pleural effusion on Anti – tubercular treatment with and without steroids : A one-year follow-up**
ROHIT SUHAS BHINGARDEVE (SANGLI, India), Sudarshan Mante, Naman Ajwani, Siddharth Waghmare, Swapnil Thorve, Jairaj Nair

**Improvement in the management of nontuberculous mycobacteria after lobar collapse therapy with Endobronchial valves ( EBV)**
Valentina Luzzi (Firenze (FI), Italy), Jessica Mencarini, Sara Tomassetti, Lorenzo Corbetta
Not always COVID - pulmonary BCGosis as an unexpected cause of severe respiratory failure and massive ground glass opacities in the lungs.
Katarzyna B. Lewandowska (Warszawa, Poland), Anna Lewandowska, Inga Baranska, Mgdalena Klatt, Ewa Augustynowicz-Kopec, Witold Tomkowski, Monika Szturmowicz

Prevalence of sub-optimal drug levels of Rifampicin, Isoniazid and Pyrazinamide among tuberculosis patients in Sydney, Australia. A pilot study.
Anthony Byrne (Sydney (NSW), Australia), Ryan Wong, Debbie Marriott, Danijel Kocić, Jan-Wilem Alffenaar, Jin Gun Cho, Ben Marais

Chest wall tuberculosis: a surgical experience
amina abdelkbir (ben arous, Tunisia), WIFEK SAIDANI, Imen Bouacida, Amina Abdelkebir, Hazem Zriba, Mahdi Abdennadher, Chaker Jaber, Ines Moussa, Sarra Zairi, Adel Marghli

Regional differences in prescribing pyrazinamide for tuberculosis treatment
Hiromi Matsumoto (Kanagawa, Japan), Nobuaki Kobayashi, Nobuhiko Fukuda, Ayami Kaneko, Ami Izawa, Kohei Somekawa, Chisato Kamimaki, Sosuke Kubo, Katsuaki Tanaka, Kenichi Seki, Hiroaki Fujii, Ayako Aoki, Yoichi Tagami, Keisuke Watanabe, Nobuyuki Horita, Yu Har, Takeshi Kaneko

Priority identification in the clinical case management of multidrug resistant Tuberculosis (MDR-TB) in Bangladesh
Farzanaz Zaman (Dhaka, Bangladesh), Mohammad Asaduzzaman

The impact of diabetes mellitus on the anti-TB treatment outcome, a series of cases study
Tatiana Osipov (Chisinau, Republic of Moldova), Evelina Lesnic, Alina Malic

Thematic poster: Lung cancer patient pathways
Disease(s) : Thoracic oncology, Interstitial lung diseases, Airway diseases
Method(s) : General respiratory patient care, Imaging, Endoscopy and interventional pulmonology, Cell and molecular biology, Palliative care, Physiology, Public health, Epidemiology
Chairs : Katerina Bernadette Sreter (Zagreb, Croatia), Richard Lee (Beaconsfield, Buckinghamshire, United Kingdom)

Impact of Covid-19 pandemic on care pathways of lung cancer in Longjumeau hospital
Alain BAKEBE (Longjumeau, France), Julien Petel, Manal Awad, Gerard Oliviero, Laurent Decoux

Lung cancer associated to idiopathic pulmonary fibrosis: predictor ranking and mining.
Giulia Maria Stella (Pavia (PV), Italy), Sara Lettieri, Manuela Coretti, Francesca Mariani, Chandra Bortolotto, Francesco Agustoni, Andrea Lancia, Pietro Rinaldi, Cristiano Primiceri, Davide Piloni, Laura Saracino

Prognostic factors in locally advanced non-small cell lung cancer
Yasmine Hadidene (Ariana, Tunisia), Hela Kamoun, Hathemi Rejeb, Dora Greb, Ines Akrou, Leila Fkh, Hanem Smadhi, Mohamed Lamine Megdiche

The association of anxiety and depression with mortality in lung cancer
Yosr Aloulou (Manouba, Tunisia), Hadhemi Rejeb, Hela Kamoun, Dorra Greb, Ines Akrou, Hejer Ben Abdelghaffar, Hela Hassen, Leila Fkh, Hanem Smadhi, Mohamed Lamine Megdiche

Impact of cancer cachexia on the course of chemotherapy in patients with advanced lung cancer.
Imen Bachouch (Ariana, Tunisia), Noureldhoua Khézami, Khawla Bouguerra, Hana Mrassi, Asma Zargouni, Nidhal Bellouni, Chaima Habouria, Fatma Chermiti, Soraya Fenniche

Survival and prognostic factors in NSCLC patients with malignant pleural effusion
Asma Navasakulpong (Hatyai (Songkhla), Thailand), Punchalee Kaenmuang

Immunotherapy in metastatic non-small cell lung cancer: EPSILOn as a prognostic score
Maria Carolina Alves Valente (Santo Tirso, Portugal), Mariana Serino, Cláudia Freitas, Mariana Martins, Pedro Ferreira, Catarina Cardoso, Catarina Sousa, Vanessa Santos, David Araújo, Helder Novais-Bastos, Adriana Magalhães, Henrique Queiroga, Gabriela Fernandes, Venceslau Hespanhol

Oncological emergencies in lung cancer patients during 2019 and SARS-CoV-2 pandemic year
Marta Carvalho Silva (Braga, Portugal), Joana Naia, Daniela Rodrigues, Diana Pimenta, Sara Campos Silva, Joana Pereira, Eva Padrão, Lurdes Ferreira

Pericardial effusion and lung cancer: experience from a UK North East District General hospital
Hussun-Ara Shah (Newcastle upon Tyne, United Kingdom), Tufayl Hannan, Karl Jackson, Philip Jones, Avinash Aujayeb
Complications of lung cancer in the clinical course of interstitial lung disease
Yoichiro Noguchi (Seto, Japan), Reoto Takei, Shunsaku Hayai, Hajime Oi, Yasuhiko Yamano, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh

A new tissue-mimicking surrogate for pulmonary lesions using for RFA
Louisa Bühler (Stuttgart, Germany), Sarina Schulze, Markus Polke, Nicolas Kahn, Marc A. Schneider, Claus Peter Heussel, Felix J. Herth, Markus D. Endler, Walter Linzenbold

Brown adipose tissue activity predicts cachexia and survival in patients with lung cancer.
Luks Hofmann (Leipzig, Germany), Jonas Meyer, Johanna Pappisch, Teresa Kerkhoff, Nicolas Linder, Harald Busse, Swen Hesse, Karen Geva Steinhoff, Thomas Ebert, Anke Tönjes, Sebastian Krämer, Johannes Broschewitz, Albrecht Gläser, Sabine Taubenheim, Hartmut Kuhn, Osama Sabri, Hubert Wirtz, Armin Frille

A single centre analysis of stage presentation of Lung Cancer pre and post Covid-19 pandemic
Ciara Ottewill (Dublin 4, Ireland), Fiona Mulvany, Finbarr O’Connell, Parthiban Srinivasan, Paul Wareing

Impact of the covid-19 pandemic on lung cancer referral and treatment
Emma Crawford (Shropshire, United Kingdom), Julia Meadam, Harmesh Moudgil, Jenny Nixon, Koottalai Srinivasan, Paul Wareing

Recurrence at site of lung cancer biopsy: experience from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom)

Impact of the COVID-19 pandemic on suspected lung cancer referrals and subsequent lung cancer diagnosis at North Bristol NHS Trust
Adriana Ramos Pereira (Bristol (Avon), United Kingdom), Catherine Coombs, Benjamin Masterman, Abiramy Jeyabalan, Martin Plummeridge, Anna Bibby

Humoral Response among patients with Interstitial Lung Disease Vaccinated with the BNT162b2 SARS-Cov-2 vaccine - a prospective cohort study
Barak Pertzov (Raanana, Israel), Einat Shmueli, Haim Ben Zvi, Amir Massarweh, Tamar Barkan, Asaf Ness, Yael Shostak, Lev Freidkin, Osnat Shtraithman, Mordechai Kramer

SARS-CoV2 vaccination in Hungarian IPF patients
Nora Melinda Toth (Budapest, Hungary), Tamas Nagy, Eniko Barczi, Alexandra Nagy, Noemi Eszes, Aniko Bohacs, Krisztina Vincze, Veronika Müller

INFLUENCE OF ATMOSPHERIC POLLUTION IN MADRID ON THE SEVERITY OF NON-IPF ILD
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Carlos Carpio Segura, Gema Bonilla Hernán, Maria Isabel Torres Sánchez, María Fernández Velilla-Peña, Elena Villamahán Bueno, Rita Regojo Zapata, Jaime Pavón Guede, Concepción Prados Sánchez, Rodolfo Álvarez-Sala Walther

Defining stakeholders’ research priorities in progressive pulmonary fibrosis in the United Kingdom
Laura Fabbri (London, United Kingdom), Louise Wright, Steve Jones, Wendy Adams, Katherine Cowan, Simon Hart, Anne-Marie Russell, Michael Gibbons, Nazia Chaudhuri, Jennifer Lynch-Wilson, Gisli Jenkins

Reduced immunogenicity of the mRNA vaccine BNT162b2 in patients with IPF
Theodoros Karampitsakos (Patras, Greece), Ourania Papaioannou, Ilias Dineas, Panagiota Tsiri, Vassilina Sotiropoulou, Ioannis Tomos, Ilias Papanikolaou, Matthais Katsaras, Paraskevi Kirgou, Zoe Danil, Konstantinos Gourgoulianis, Dionysios Papalextos, Fitos Sampsonas, Effrosyni Manali, Spyridon Papiris, Demosthenes Bouros, Argyris Tzouvelekis

Early administration of nintedanib after the onset of acute exacerbation in patients with interstitial lung disease
Motoyasu Kato (Tokyo, Japan), Shinichi Sasaki, Eri Hayakawa, Soichiro Soma, Yuta Arai, Shun Nakazawa, Hiroaki Motomura, Issel Sumiyoshi, Yusuke Ochi, Kotaro Kadoya, Shinsaku Togo, Kazuhisa Takahashi

Improved survival of IPF patients treated with antifibrotic drugs compared with untreated patients
Mark G.J.P. Platenburg (Nieuwegein, Netherlands), Coline H.M. Van Moorel, Ivo A. Wiertz, Pieter Zanen, Joanne J. Van Der Vis, Adriane D.M. Vorselaars, Marcel Veltkamp, Jan C. Grutters
Risk factors of adverse outcome after acute hospitalization in Idiopathic Pulmonary Fibrosis (IPF)
Emilia Kassandra Achilles Åttingsberg (København, Denmark), Nils Hoyer, Saher Shaker

Real-world outcomes for incidental interstitial lung abnormalities diagnosed over the baseline round of the Yorkshire Lung Screening Trial.
Sara Upperton (Leeds, United Kingdom), Claire Bradley, Paul Beirne, Bobby Bhartia, Alison Boland, Philip Crosbie, Michael Darby, Rhian Gabe, Martyn Kennedy, Tim Sutherland, Matthew Callister

Comparison of three dyspnea questionnaires in predicting survival of interstitial lung diseases
Onofre Moran Mendoza (Kingston (ON), Canada), Andres Moran Macdonald, Sami Alyami, Maxine Kish, Sean Davison

Long-term effect of nintedanib treatment in 11 countries of Europe and Asia
Martina Koziar Vasakova (Praha 10, Czech Republic), Martina Sterclova, Nesrin Mogulkoc Bishop, Katarzyna Lewandowska, Veronika Müller, Mordechai Kramer, Marta Hajkova, Dragana Jovanovic, Michael Studnicka, Jasna Tekavec-Trkanjec, Anton Penev, Petra Ovesna, Jakub Gregor

Comparison of three dyspnea questionnaires in predicting survival of interstitial lung diseases
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Onofre Moran Mendoza (Kingston (ON), Canada), Andres Moran Macdonald, Sami Alyami, Maxine Kish, Sean Davison

Therapeutic decisions regarding initiation of antifibrotic therapy in IPF: a multicenter, prospective cohort study from Poland.
Katarzyna Górska (Warszawa, Poland), Marta Muskey-Warzęchowska, Małgorzata Barnaś, Adam Białas, Adam Barczyk, Hanna Jagielska-Len, Ewa Jassem, Aleksander Kania, Katarzyna Lewandowska, Sebastian Majewski, Magdalena Martusewicz-Boros, Wojciech Piotrowski, Alicja Siemińska, Krzysztof Stadek, Małgorzata Sobiecka, Marzena Trzaska-Sobczak, Witold Tomkowski, Beata Żołnowska, Rafał Krenke

Patterns of antifibrotic treatment changes in a cohort of idiopathic pulmonary fibrosis patients
Inge Raadal Skov (Odense, Denmark), André Shamoun Darbrodi, Jesper Rømhild Davidsen

Could family history avoid lung biopsy in fibrotic interstitial lung diseases? From a clinical retrospective cohort study.
Diego Duminy-Luppi (L'Hospital de Llobregat, Spain), Alex Alcaide-Aldeano, Lurdes Planas-Cerezales, Guadalupe Bermudo-Peloche, Vanesa Vicens-Zygmunt, Patricio Luburich, Belen Del Rio, Roger Llatjós, Lara Pijuan, Ignacio Escobar, Ana Montes-Worboys, Yasmira Gutierrez-Rodriguez, Rosario Perona, Salud Santos-Perez, Jordi Dorca, Maria Molina-Molina

Diagnostic delay in IPF impacts progression-free survival, quality of life and hospitalisation rates
Nils Hoyer (København NV, Denmark), Thomas Skovhus Prior, Elisabeth Bendstrup, Saher Burhan Shaker

Persistence, safety, and costs of antifibrotic treatment for idiopathic pulmonary fibrosis (IPF): a US Veterans Health Administration (VHA) claims study
Ying Qiu (Princeton, United States), Julia Zhu, Brandon Elpers, Christopher Dieyi, Clare Byrne, Risho Singh, Aryeh Fischer

Effects of low dose pirfenidone on lung function for patients with idiopathic pulmonary fibrosis in real practice
Kyoung Min Moon (Republic of Korea), Bock-Hyun Jung, Jae Guk Lee, Myung Pyo Kim

Late Breaking Abstract - Inhaled pirfenidone is associated with better quality of life scores in idiopathic pulmonary fibrosis
Felix Woodhead (Coventry (West Midlands), United Kingdom), Grace Kim, Jonathan Goldin, Courtney Nichole Thompson, Michele Shaffer, Kelly Otto, Bruce Montgomery

Acute beat blockade improves right ventricular diastolic filling in pulmonary arterial hypertension: a rodent CMR and clinical human pressure-volume study
Chinthaka Samaranayake (London, United Kingdom), Marili Niglas, Aleksander Kempny, Nicoleta Baxan, Ali Ashok, Joy Pinguel, Konstantinos Dimopoulos, Laura C Price, Stephen J Wort, Lan Zhao, Colm Mccabe

Thematic poster: Treatment of pulmonary arterial hypertension

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

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

Chairs: Luis Jose JARA PALOMARES (Sevilla, Spain), Tomás Pulido Zamudio (México D.F, Mexico)

Acute beat blockade improves right ventricular diastolic filling in pulmonary arterial hypertension: a rodent CMR and clinical human pressure-volume study
Chinthaka Samaranayake (London, United Kingdom), Marili Niglas, Aleksander Kempny, Nicoleta Baxan, Ali Ashok, Joy Pinguel, Konstantinos Dimopoulos, Laura C Price, Stephen J Wort, Lan Zhao, Colm Mccabe
PA2673 Haemodynamic (HD) evaluation of LIQ861 (treprostinil) inhalation powder for the treatment of pulmonary arterial hypertension (PAH)
Benjamin Egenlauf (Heidelberg, Germany), Satenik Harutyunova, Panagiota Xanthouli, Savan Patel, Ashley Galloway, Ekkehard Grünig

PA2674 Combination therapy prescribing in pulmonary arterial hypertension patients in a real-world setting in Latin America
Tatiana Pineda (Bogota, Colombia), Alex Bennett, Ignacio Bluro, Julia Harley, Jorge Irias, TomÁs Pulido, Alicia Ramirez, Catalina Rozo Bedoya, Mark Small, Mauricio Orozco-Levi

PA2675 Macitentan real-world experience in elderly patients over 75 years with pulmonary arterial hypertension (PAH)
Nick Kim (La Jolla, United States), Richard Channick, Kelly Chin, Lada Mitchell, Stefano Turricchia, Rose Ong, Vallerie Mclaughlin

PA2676 CARE PAH study design: an international, prospective real-world cohort of PAH patients
David Kiely (Sheffield (South Yorkshire), United Kingdom), Marc Humbert, Nancy Dreyer, Vallerie Mclaughlin, Tomas Pulido, Neli Boyanova, Benjamin Frauchiger, Fabrice Kiefer, Cheryl Lassen, Rose Ong, Lilian Sanna, Annette Sauter

PA2677 Tolerability, safety and survival in patients with severe pulmonary arterial hypertension treated with intravenous epoprostenol (Veletri®): 6-months, open label, observational, non-interventional study
Julia Degering (Heidelberg, Germany), Satenik Harutyunova, Nicola Benjamin, Christina Alessandra Eichstaedt, Panagiota Xanthouli, Benjamin Egenlauf, Rebekka Seeger, Ekkehard Grünig

PA2678 Retrospective on the Developing World’s Participation in Pulmonary Hypertension Clinical Trials: 1999-2021
Rong Jiang (Shanghai, China), Lu Zheng, Shang Wang, Yi Yan, Ping Yuan

PA2679 Mean Size of Atrial Shunt predicts Survival in Pulmonary Hypertension patients undergoing Atrial Septostomy
Rodrigo Zebadua (Ciudad de México, Mexico), Nayeli Zayas, Julio Lopez, Mario Pozas, Laurina Zorrila, Julio Sandoval, Tomás Pulido

PA2680 Effect of breathing oxygen-enriched air on exercise performance in healthy and different cardiopulmonary diseases Data from 5 RCTs.
Julian Müller (Zürich, Switzerland), Mona Lichtblau, Stéphanie Saxer, Simon R. Schneider, Paula Appenzeller, Elisabeth D. Hasler, Michael Furian, Konrad E. Bloch, Silvia Ulrich

PA2681 Effect of acetazolamide on incremental cycling exercise in precapillary pulmonary hypertension. A randomized placebo-controlled, double blind, cross-over trial
Julian Müller (Zürich, Switzerland), Paula Appenzeller, Mona Lichtblau, Stéphanie Saxer, Charlotte Berlier, Simon Rafael Schneider, Michael Furian, Esther Irene Schwarz, Konrad Ernst Bloch, Silvia Ulrich

PA2682 Efficacy of oral treprostinil as an add-on therapy for PAH
David Kiely (Sheffield (South Yorkshire), United Kingdom), Ekkehard Grünig, Vijay Balasubramanian, Joan Barberà, Carmine Dario Vizza, Jean Elwing, Namita Sood, Youlan Rao, Louis Holdstock, Scott Seaman, Meredith Broderick, R. James White

PA2683 Long-term clinical assessment in patients with Eisenmenger Syndrome treated with macitentan
Rodrigo Zebadua (Ciudad de México, Mexico), Julio César López, Nayeli Guadalupe Zayas, Julio Sandoval, Montserrat Villalobos-Pedroza, Abraham Cruz, Daisy Karina Hernández, Jesús Fliberto Canul, Tomás Pulido

PA2684 Feasibility, acceptability, and efficacy of a remotely delivered home-based pulmonary hypertension exercise program
Ciara McCormack (Navan, Ireland), Brona Kehoe, Sarah Cullivan, Noel Mccaffrey, Sean Gaine, Brian Mccullagh, Andrew Mccarren, Sarah Hardcastle, Niall Moyna

PA2685 Survival of patients diagnosed with Pulmonary Hypertension undergoing Atrial Septostomy
Rodrigo Zebadua (Ciudad de México, Mexico), Nayeli Zayas, Julio Lopez, Laurina Zorrila, Mario Pozas, Montserrat Villalobos, Julio Sandoval, Tomas Pulido

PA2686 Predictors of the response to combined therapy with phosphodiesterase-5 inhibitors and endothelin receptor antagonists in pulmonary arterial hypertension
AGUSTIN ROBERTO GARCIA (BARCELONA, Spain), Isabel Blanco, Manuel Lopez Meseguer, Juan Antonio Domingo Morera, Clara Martin Ontiyuelo, Olga Tura Ceide, Isabel Otero Gonzalez, Pilar Escrivan Ab sia, Joan Albert Barbera

PA2687 Effects of Molsidomin upon pulmonary hemodynamics and oxygen transport by arterial blood in chronic obstructive pulmonary disease (COPD) and decompensated cor pulmonale
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Eudochia Terna, Constantin Martiniuc, Svetlana Eremcicu, Ion Sirbu, Constantin Matcovschi, Elena Calancea, Sergiu Matcovschi
Cardiorespiratory adaptation whilst breathing normobaric hypoxia vs. short-term exposure to altitude in patients with pulmonary hypertension.
Simon Raphael Schneider (Zürich, Switzerland), Mona Lichtblau, Michael Furian, Laura Mayer, Julian Müller, Stephanie Saxer, Konrad Bloch, Silvia Ulrich

Late Breaking Abstract - Effect of 5 weeks of oral acetazolamide on patients with pulmonary vascular disease: a randomized, double-blind, cross-over trial
Mona Lichtblau (Zürich, Switzerland), Stephanie Saxer, Julian Müller, Paula Appenzeller, Charlotte Berlier, Simon R Schneider, Laura Mayer, Michael Furian, Esther I Schwarz, Erik R Swenson, Konrad E Bloch, Silvia Ulrich

Late Breaking Abstract - Cannabidiol reduces lung and heart fibrosis in rats with monocrotaline-induced pulmonary hypertension
Anna Krzyżewska (Białystok, Poland), Marta Baranowska-Kuczko, Irena Kasacka, Hanna Kozłowska

Thematic poster: Cutting-edge concepts in interventional bronchoscopy

Session 310  13:00 - 14:00

Thematic poster area

PA2691 INTRATHORACIC LYMPH NODE METASTASES FROM EXTRAPULMONARY NEOPLASMS: DIAGNOSTIC PERFORMANCE OF EBUS-TBNA.
Alejandro Golfie (Valencia, Spain), Marina Alcaraz Barcelona, Wanda Almonte Batista, Javier Cruz Ruiz, Concepción Patricia López Miguel, Jesús Jiménez López, Francisco Javier Callejas González, Sergio García Castillo, Alvaro Hurtado Fuentes, Raúl Godoy Mayoral, Ana Niñez Ares

PA2692 Real-life comparison of diagnostic yield (DY) and sample adequacy (SA) of 22G and 25G EBUS-TBNA needles: less is more?
Filippo Lanfranchi (Padua, Italy), Laura Mancino, Gabriele Foltran, Alberto Pavan, Gioele Castelli, Lorenzo Ciarrocchi, Lucia Laurino, Lucio Micheleletto

PA2693 Diagnosing challenging pulmonary nodules with virtual bronchoscopic navigation and augmented fluoroscopy
Faustina Funke (Essen, Germany), Jane Winantea, Kaid Darwiche

PA2694 PD-L1 suitability rate of E(B)US-TBNA specimens: RCT of Acquire 22G TBNB vs Expect 22G TBNA needles
Tess Kramer (Amsterdam, Netherlands), Jolanda Kuijvenhoven, Daniël Korevaar, Maarten Ninaber, Rocco Trisolini, Artur Szublowski, Maciej Gnass, Jiri Votruba, Jan Von Der Thüsen, Daniëlle Cohen, Peter Bonta, Jouke Annema

PA2695 Prevalence and association with malignancy of intrathoracic lymph node calcifications: a cross sectional endosonographic pilot study
Stefania Cortese (Rignano Flaminio, Italy), Fausto Leoncini, Jacopo Simonetti, Vanina Livi, Daniele Magnini, Alessandra Cancellieri, Luca Richeldi, Rocco Trisolini

PA2696 Malignancy Risk Analysis in Patients with non-diagnostic endobronchial ultrasound-fine needle aspiration (EBUS-TBNA) of mediastinal lymph nodes
Inbal Shafran (raanana, Israel), Lior Sluk, Nadav Furie, Ronen Mass, Michael Peled, Erik Baltaxe, Michael Segel, Tiberiu Shulimzon, Amir Omm, Sumit Chatterji

PA2697 Clinical impact of isolated mediastinal and hilar lymphadenopathy (IMHL). Insights from thoracic endosonography (EBUS/EUS-b).
Serahfem Chrysikos (Athens, Greece), Theodoros Karampitsakos, Sofia Koukidou, Anastasia Papaporphriou, Maria Anyfanti, Eleftherios Zervas, Georgios Hillas, Argyrios Tzouvelekis, Katerina Dimakou

PA2698 Safety and Efficacy of EBUS guided trans-bronchial lymph node cryobiopsy (EBUS-TBLNC): A single center experience.
Virender Pratibh Prasad (Secunderabad, India), Chetan Rao Vaddepally, Venkata Nagarjuna Maturu

PA2699 Correlation between sonographic features of mediastinal lymph nodes and presence of malignancy when performing EBUS-TBNA
Sara Braga (Braga, Portugal), Gabriela Fernandes, Helder Novais E Bastos, Adriana Magalhães

PA2700 The rise of Endobronchial Ultrasound (EBUS) and fall of Mediastinoscopy
Haider Al-Najjar (Manchester (Greater Manchester), United Kingdom), Eman Nasr, Haval Balata, Matthew Evison, Louise Brown, Ramachandran Sundar, Durgesh Rana, Nadira Narine
Physician Associates' (PAs) perceptions and experience in Pleural procedures
Sameer Nagi (Sidcup, United Kingdom), Rebecca Greenbury, Sarah White, Matthew James, Burhan Khan

Utilization of different aspects of digital health among pulmonology residents in Turkey during the pandemic
Aylin Özsançak Uğurlu (Istanbul, Turkey), Nazlı Cetin, Maide Gozde İnam, Orkun Eray Terzi, Atalay Ozkul, Nazlı Huma Teke, Mehmet Parlak

A virtual reality platform for training in the management of acute respiratory diseases.
Paula Bordallo Vázquez (Gasteiz, Spain), Olalt Llaguno, Camila García-López, Javier Poyo, Miguel Ángel Sánchez, Irantzu Elorza, Francisco Javier Ribas-Solis, Gaspar Sánchez

Practical Procedures Workshop for Physician Associates (PAs)
Rebecca Greenbury (London, United Kingdom), Sarah White, Matthew James, Sameer Nagi, Burhan Khan

Usefulness of a low cost digital stethoscope for remote pulmonary auscultation
Ignasi Garcia Olivé (Badalona, Spain), Agnes Hernandez Biette, Pere Serra Mitja, Elisabet Gras, Jaume Palou, Jorge Abad, Antoni Rosell

The quality of YouTube videos on Obstructive Sleep Apnea
Hulya Abali (Istanbul, Turkey), Fatma Tokgoz Akyil, Seda Tural Onur, Dilara Demir

EVALUATION OF THE GREEK TRADITIONAL MEDIA PLURALISM BEFORE AND DURING THE COVID-19 PANDEMIC
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Evdoxia Gogou, Konstantinos Gourgoulianis

An overview of Respiratory Research funding in Europe and UK between 2012 to 2022.
Aravind Ponnuswamy (Chester (Cheshire), United Kingdom), Priyadarshinee Karthisankar, Aravind Ponnuswamy

Non-specialists’ understanding of their role in pulmonary hypertension diagnosis is significantly improved with online case-based education
Christy Rohani-Montez (Duillier, Switzerland)

Purview of teleconsultation during COVID-19 pandemic.
Sneha Tirpude (Mumbai (Maharashtra), India), VISHNU GIREESH

Kevin Frederick Deasy (Ballincollig, Ireland), Anne-Marie Sweeney, Marcus Peter Kennedy

Late Breaking Abstract - Improved health outcomes for Aboriginal children hospitalised with chest infections
Pamela Laird (Perth, Australia), Roz Walker, Jack Whitby, Fenella Gill, Elizabeth Mc Kinnon, Matthew Cooper, Anne Chang, André Schultz

Late Breaking Abstract - Physicians' preferences in the use of PROMs during asthma and allergic rhinitis clinical approach
belen intriago (guayaquil, Ecuador), Jean Bousquet, Torsten Zuberbier, Marcus Maurer, Karla Robles-Velasco, María José Farfán Bajaña, Matias Panchana Lascano, German D. Ramón, Dorota Kraszowska, Pavel Kolkhir, Natasa Teovska, Alicia Kasperska-Zajac, Anna Zalewska-Janowska, Mona Al-Ahmadi, Maryam Ali Al-Nesf, Tayseer Sabah, Sophia Neisinger, Florin Mihalatan, Maryam Khoshkhui, Maia Rukhadze, Kiran Godse, Ana Maria Giménez-Arnau, David Pesquè, Anja Lingnau, George Christoff, Ted Popov, Monica Rodriguez, Désirée Larenas Linnemann, Daria Fomina, Mitja Kosnik, Rabia Öztaş Kara, Juan Carlos Ivancevich, Nelson Rosario, Luis Felipe Ensina, Roberta Fachini Jardim Criado, Herberto Chong, Christopherson Gengyny Caballero López, Ivan Cherrez-Ojeda

**Thematic poster: Digital health interventions in respiratory practice**

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

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

**Chairs:** Io Hui (Edinburgh (Edinburgh), United Kingdom), Andrea Aliverti (Milan, Italy)

**Exacerbation predictive modelling using real-world data from the myCOPD app**
Henry Glyde (Bristol, United Kingdom), Alison Blythin, Tom Wilkinson, Ian Nabney, James Dodd

**Use of a severe asthma algorithm in an asthma education center electronic medical record (EMR)**
Alison Morra (port hope, Canada), Delanya Podgers, Andrew Day, Patrick Norman, Catherine Lemiere, M.Diane Lougheed
PA2730 Exploring use of a connected Internet-Of-Things system (A4A+) with CE-marked devices to support asthma self-management? A mixed method study
Io Hui (Edinburgh (Edinburgh), United Kingdom), Brian Mckinstry, Mark Buchner, Hilary Pinnock

PA2731 Can the generalizability problem of artificial intelligence be overcome?: Pneumothorax detection algorithm
Elvan Burak Verdi (ANKARA, Turkey), Deniz Dogan Mullazimoglu, Serhat Erol, Ashihan Gurun Kay, Mohammed Yilmaz, Abdussamet Turker, Ahmet Murat Ozbayoglu, Ozlem Isik, Asli Bostanoglu Karacin, Ovgu Velioglu Yakut, Bulent Mustafa Yenigun, Canturk Tasci, Caglar Uzun, Atilla Halil Elhan, Ayten Kayi Kangir, Ozlem Ozdemir Kumbasar, Akin Kaya

PA2732 Utilisation of health care and operational cost difference in telerehabilitiation of COPD patients with a Virtual Autonomous Physiotherapist Agent
Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Daniel Catalan-Matamoros, Elisabeth Bendstrup

PA2733 Preferred functionalities on smartphone applications for physical activity in adults with low cardiorespiratory function
Victor Dourado (Santos (SP), Brazil), Wesley Vieira, Maria Simões, Vinicius Lauria, Krom Guedes, Rodrigo Da Silva, Thiatiane Ostol, Neli Proença, Ricardo Padovani

PA2734 Use of Pan-Canadian Respiratory Standards Initiative for Electronic Medical Health Records (PRESTINE) elements to measure performance in an asthma education centre
Alison Morra (Port hope, Canada), Delanya Podgers, Andrew Day, Patrick Norman, Catherine Lemiere, M Diane Lougheed

PA2735 Lung sounds classification with artificial intelligence
Abid Sourour (Sfax, Tunisia), Mohamed Majdi Karray, Rahma Gargouri, Ilhem Ben Salah, Walid Feki, Zied Triki, Najla Bahloul, Nesrine Kallel, Rim Khemakhem, Nadia Moussa, Samy Kammoun

PA2736 Integrating asthma tools and clinical guidelines into primary care EMRs across Canada: A mixed-methods approach
Max Moloney (Selwyn, Canada), Madison Mackimnon, Emma Bullock, Alison Morra, David Barber, Samir Gupta, Teresa To, John Queenan, Genevieve Digby, M. Diane Lougheed

PA2737 Comparison of lung auscultation between smartphone and digital stethoscope in patients with asthma: a feasibility study
Henrique Ferreira-Cardoso (Porto, Portugal), Ana Catarina Moniz, Rute Almeida, Ana Margarida Pereira, Filipa Lopes, Rita Amaral, José Valente, Pedro Vieira-Marques, Catarina Joao, Manuel Ferreira-Magalhaes, Inês Azevedo, João Almeida Fonseca, Cristina Isabel Oliveira Jâcome

PA2738 Patient perceived facilitators to greater self-management using home spirometry
Karen Parsons (Oxford, United Kingdom), Carmine Ruggiero, Shailka Hussain, Andrew Achariah, Vishal Nathwani, Sabrina Zulfikar, Emily Fraser, Peter Saunders, Ling-Pei Ho, Rachel Hoyles

PA2739 Development and performance testing of a deep learning computer-aided diagnosis system for chest X-rays
Gif Gana (Harare, Zimbabwe), Thokhohazi Sibanda, Tatenda Madzorera, Micah Nhachamena, Sisodwa Nkomo, Tonderai Mapako, Evander Nyon, Haji Mupakura

PA2740 Scoping review on environments to support digital health solutions valued by clinicians in Bangladesh, India, Indonesia, Malaysia and Pakistan

PA2741 Computational modelling for enhanced management of multimorbidity
Ruben Gonzalez Colom (SANT HIPOLIT DE VOLTREGA, Spain), Carmen Herranz, Joan Carles Contel, Emili Vela, Antoni Sisò, Jordi Piera, Isaac Cano, Josep Roca

PA2742 Defining Cases of Confirmed and Suspected Asthma in Electronic Medical Records for Sentinel Surveillance
Max Moloney (Selwyn, Canada), David Barber, John Queenan, Alison Morra, Samir Gupta, Teresa To, Genevieve Digby, Rachel Morkem, M. Diane Lougheed

PA2743 Decision support algorithm using machine learning for the diagnosis of pulmonary embolism on chest X-ray
Elvan Burak Verdi (ANKARA, Turkey), Deniz Dogan Mullazimoglu, Serhat Erol, Ashihan Gurun Kay, Asli Bostanoglu Karacin, Sumeyye Ayoz, Ahmet Bahadir Dal, Akin Kaya

PA2744 Features and quality of COPD self-management apps in the Android marketplace
Shirley Quach (Concord, Canada), Adam Benoit, Ana Oliveira, Roger Goldstein, Dina Brooks

PA2745 Tele Pulmonology in COPD patients
Sarang Patil (Dhule (Maharashtra), India)
| PA2746 | Late Breaking Abstract - Adherence to inhaled drugs – more than just reminders and nudging  
Sabine Häussermann (Munich, Germany), Laura Andersen, Michalea Frisch |
| --- | --- |

**TP-4 in thematic poster**  
Session 313  
13:00 - 14:00

**Thematic poster: Physiologic studies of respiratory diseases**

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

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

**Chairs:** Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France), Raffaele Dellaca (Milano (MI), Italy)

| PA2747 | Lung function and exercise capacity profile in pleuroparenchymal fibroelastosis  
Ali Chour (Lyon, France), Thomas Gilfe, Mouhamad Nasser, Khais Ahmad, Julie Traclet, Hilario Nunes, Emilie Blais, Arthur Petat, Vincent Cottin, Segolène Turquier |
| PA2748 | Acute hypoxia characterises pulmonary micro-aspiration in patients with gastroesophageal reflux disease and laryngopharyngeal reflux.  
Gregory Falk (Lindfield, Australia), Leticia Burton, Daminda Weerasinghe, Hans Van Der Wall |
| PA2749 | Sex-specific difference in health-related altitude-effects and effect of preventive acetazolamide treatment  
Alina Häfliger (Hildisrieden, Switzerland), Aline Buergin, Laura C Mayer, Maamed Mademilov, Mona Lichtblau, Talant Sooronbaev, Silvia Ulrich, Konrad E Bloch, Michael Furian |
| PA2750 | Arterial oxygen partial pressure and adverse health effects in COPD at altitude  
Ahmet Sevik (Zuerich, Switzerland), Thomas Gaisl, Laura Graf, Silvia Ulrich, Konrad E Bloch, Mona Lichtblau, Michael Furian |
| PA2751 | Lung function at 12 years of age in children born very premature compared to term born controls and association to neonatal morbidities and sex.  
Cecilia Hagman (Lund, Sweden), Lars Björklund, Ingrid Pupp-Hansen, Ellen Tufvesson |
| PA2752 | What adds the dynamic lung Hyperinflation in the diagnosis of asthma in children?  
FATMA ELLEUCH (Sfax, Tunisia), Rim Kammoun, Sana Sellami, Ines Kammoun, Farah Gargouri, Hela Zouari, Kaouthar Masmoudi |
| PA2753 | Prevalence and predictors of hypoxemia and chronic respiratory failure in stable COPD patients.  
Giuseppe Croce (, Italy), Sarah Elizabeth O'Donnell, Elisa Franceschi, Stefano Pini, Anna Casartelli, Fiammetta Danzo, Dejan Radovanovic, Pierachille Santus |
| PA2754 | Exercise-induced bronchoconstriction in pediatric age: relationship between age bronchoconstriction and recovery.  
Catarina Camarinha (Lisboa, Portugal), Inês Marques, Isabel Almeida, Inês Nunes, Sara Matos, Ana Cristina Henriques, Ana Verónica Lourenço, Mário Morais-Almeida |
| PA2755 | Persistent exertional dyspnea post COVID-19: potential mechanisms  
Amany Elbehairy (Alexandria, Egypt), Shaimaa A. Elbialy, Nesma M. Geneidy, Ayman I. Baess, Abdel-Monem E. Metwally, Muhammad M. Elholy |
| PA2756 | Time for recovery of function of alveolo-capillary membrane after COVID 19 infections  
Besim Pnjavorac (Tešanj, Bosnia and Herzegovina), Aida Mujaković, Hasan Škiljo, Tamer Bego, Lejla Pnjavorac, Elvira Ćorhodžić, Jusuf Mehić, Omer Bedak, Emin Brkić, Irfan Pnjavorac |
| PA2757 | Long-term impact of covid-19: a systematic review of the literature and meta-analysis  
Diana C Sanchez-Ramirez (Winnipeg, Canada), Kaylene Normand, Yang Zhaoyun, Rodrigo Torres-Castro |
| PA2758 | Impact of elexacaftor/tezacaftor/ivacaftor combination therapy on lung function in adults with cystic fibrosis: Beyond FEV1  
Maximilian Wollsching-Strobel (Köln, Germany), Doris Dieninghoff, Laura F Emrich, Doreen Kroppen, Daniel S Majorski, Tim Mathes, Frederike S Magnet, Sarah B Schwarz, Carl-Peter Crieé, Wolfram Windisch |
| PA2759 | Effects of different end-expiratory lung volumes on haemodynamics and gas exchange in a rodent model of type-2 diabetes  
Almos Schranc (Szeged, Hungary), Gergely H. Fodor, Roberta Südy, József Tolnai, Barna Babik, Ferenc Peták |
| PA2760 | Lung function, bronchial hyperresponsiveness and respiratory symptoms in elite athletes across sports.  
Julie Stang (Oslo, Norway), Guro Pauck Bernhardsen, Thomas Halvorsen, Trine Stensrud |
PA2761  Blowing in the Wind: Use of Incentive Spirometry in Preventing Acute Respiratory Distress Syndrome for Patients with Moderate COVID
Ann Crizette Garcia (Manila, Philippines), Jose Sarenas

PA2762  Cardiopulmonary exercise testing in patients with COVID-19 at 3 months from hospital discharge
Leonardo Gori (Florence, Italy), Carlo Fumagalli, Luca Ciani, Niccolò Marchionni, Francesco Fattorollo, Chiara Zocchi, Laura Rasero, Alessandra Sorano, Maria Vittoria Silverii, Iacopo Olivotto, Federico Lavorini

PA2763  Comparison of dynamic cerebral autoregulation and cardiac baroreceptor sensitivity between residents living at different altitudes
Michael Furian (Zürich, Switzerland), Mathilde Ulliél-Roche, Connor A. Howe, Fanny Zerizer, Mathieu Marillier, Anne-Catherine Bernard, Ivan Hancoo, Benoit Champigneulle, Sébastien Baillieul, Philip N. Ainslie, Aurélien Pichon, Stéphane Doutrelleau, Samuel Verges, Julien Brugniaux

PA2764  Late Breaking Abstract - A rare case of acute eosinophilic pneumonia induced by vaping-associated lung injury: a case report
Moath alkhouzaie (Khobar, Saudi Arabia), Abir Alsaid, Alaeldin Elfaki, Raghad Alghamdi

PA2765  Late Breaking Abstract - Long-term durability of ivacaftor (IVA) treatment benefit in people with cystic fibrosis (PwCF)
Teja Thorat (Rosindale, United States), Christian Merlo, Christina Scirica, Teja Thorat, Lisa Megarry, Maral Dersarkissian, Catherine Nguyen, Yuqian M Gu, Aruna Muthukumar, Joe Healy, M. Alan Brookhart, Jaime Rubin

PA2766  Late Breaking Abstract - Long-term cardiopulmonary exercise outcomes among COVID-19 survivors: preliminary insights from an Italian study
Andrea Baccelli (Milano, Italy), Rocco Francesco Rinaldi, Francesca Marchetti, Beatrice Re, Mauro Degrassi, Elena Maria Parazzini, Fabiano Di Marco, Stefano Centanni

TP-5 in thematic poster  Session 314  13:00 - 14:00
Thematic poster: COVID 19: intensive care unit treatment
Disease(s):  Respiratory critical care  Interstitial lung diseases  Airway diseases
Method(s):  Respiratory intensive care  General respiratory patient care  Imaging  Epidemiology  Public health
Chairs:  Lise Piquilloud (Lausanne, Switzerland), Ignacio Martin-Loeches (Dublin, Ireland)

PA2767  Multimorbidity drives responsiveness to rehabilitation in critical illness: A patient level meta-analysis of four randomized trials
Jennifer Jones (South Yarra, Australia), Zudin Puthucheary, Amalia Karahalios, Michael Berry, D. Clark Files, David Griffith, Luke Mcdonald, Peter Morris, Marc Moss, Amy Nordon-Craft, Timothy Walsh, Sue Berney, Linda Denehy

PA2768  Delirium screening in critically ill patients: validation of the Korean version of the 4 A’s Test
Young Seok Lee (Seoul, Republic of Korea), Jae Jeong Shim, Kyungsoo Chung, Chi Ryang Chung, Jongmin Lee

PA2769  Outcomes of elderly and very elderly patients admitted to intensive care unit for sepsis
Sharlene Ho (Singapore, Singapore), Niranjana Mahalingam, Geak Poh Tan, Jin Wen Sennen Lew

PA2770  Early mobilisation of mechanically ventilated patients in the intensive care units: results of a Saudi-wide national survey
Jaber Alqahtani (Damnam, Saudi Arabia), Mohammed Alahmari, Ibrahim Aldraiwiesh, Asma Alamoudi, Nawal Alobaibi, Abdullah Ghazwani, Abdulrahgh Aldhahir, Saeed Alghamdi, Abdullah Alqahtani, Jithin Sreedharan, Saad Alrabeah

PA2771  Comparing the mortality of COPD and non-COPD patients with COVID-19 in a UK hospital
Hanif Ahmad (Harlow, United Kingdom), Neelima Akter , Ruby Varghese , Scott Waring , Shavita Kuckreja , Samir Naik, Ugochukwu Ekeowa, Peter Russell, Muhammad Anwar

PA2772  The impact of age and gender on mortality from COVID-19 at A UK Hospital
Sooriya Soman (Harlow, United Kingdom), Hanif Ahmad, Kamal Dewan , Ahmed Suliman , Irfan Saleem , Reena Kumari , Peter Russell, Samir Naik , Shavita Kuckreja , Ravi Ragaatha , Ugochukwu Ekeowa, Michael Long , Muhammad Anwar

PA2773  Intermediate respiratory care unit patient flow analysis during the covid-19 pandemic.
Marina Galdeano Lozano (Montacada I Reixach (Barcelona), Spain), Antoni Marin, Leire Mendiluce, Adriana Martin, Irene Aldás, Agnes Hernandez, Carmen Ernandez, Ignasi Garcia-Olive, Jjorge Abad

PA2774  Use of awake prone positioning in acute COVID-19
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mohammad R. Ali, Milind Sovani, Dominick E. Shaw
The diagnosis of spontaneous secondary tension pneumothorax following apparent recovery from COVID-19 pneumonitis
Romesh Tirimanna (Ashford, United Kingdom), Eleanor Dorman, Michael Okorie, James Myerson

To assess the diagnostic and prognostic ability of CXRs in COVID-19 pneumonitis
Hanif Ahmad (Harlow, United Kingdom), Sooriya Soman, Ruby Varghese, Kamal Dewan, Robert Chapman, Jie Tong, Reena Kumari, Ugochukwu Ekeowa, Ravi Ragatha, Peter Russell, Shavita Kuckreja, Michael Long, Muhammad Anwar

Pneumomediastinum in COVID-19 critically ill patients
Amani Kacem (Sousse, Tunisia), Dhouha Ben Braiek, Hend Zorgati, Imen Mighri, Hanen Brahmi, Rahma Ben Jazia, Imen Kharrat, Jihene Ayachi

Shunt fraction in Covid-19 related Acute Respiratory Failure
Luca Novelli (Bergamo, Italy), Federico Raimondi, Luca Malandrino, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberta Biza, Roberta Trapasso, Carlo Catani, Francesco Caglioni, Simone Bonetti, Gianmariano Marchesi, Fabiano Di Marco

Vaccinated COVID-19 patients admitted in a Tunisian ICU: clinical features and outcome.
Amira Jamoussi (ariana, Tunisia), Selim Sellaouti, Malek Kharrat, Samia Ayed, Fatma Jarraya, Emna Rachdi, Mohamed Besbes, Jalila Ben Khelif

CT scan in COVID-19 patients in ICU: Two evaluative methods
Amira Jamoussi (ariana, Tunisia), Sarra Zarrouk, Samia Ayed, Emna Rachdi, Fatma Jarraya, Mohamed Besbes, Jalila Ben Khelif

Can initial Chest CT scan findings predict high flow nasal cannula (HFNC) failure in critically ill COVID19 patients
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Imen Mighri, Safa Ben Mansour, Oussama Saadaoui, Rania Hidi, Arsalen Douzi, Chaïma Kaabi, Asma Azaza, Oumaima Ghabi, Rahma Ben Jazia, Imen Kharrat, Jihene Ayachi

Chest CT scan lesions as predictors of poor prognosis in critically ill COVID-19 patients
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Imen Mighri, Oussama Saadaoui, Rania Hidi, Safa Ben Mansour, Chaïma Kaabi, Arsalen Douzi, Oumaima Ghabi, Asma Azaza, Rahma Ben Jazia, Imen Kharrat, Jihene Ayachi

Lung ultrasound for detection of pneumonic changes in patients with COVID-19 infection
Ahmed Kabil (Cairo, Egypt), Moaz Atia, Ahmed Eldeeb, Mohamed Shahnin

Partial apoptosis of epithelial cells in fibrotic lungs.
Eirini Vasarmidi (Heraklion (Crete), Greece), Alice Guyard, Nicolas Pote, Pierre Mordant, Aurelie Cazes, Bruno Crestani, Arnaud Mailleux

Phenotypic drug screening in a human fibrosis model identified a novel class of antifibrotic therapeutics
Michael Gerckens (München, Germany), Kenji Schorpp, Francesco Pelizza, Melanie Wögrath, Kora Reichau, Hui-long Ma, Armando Dworsky, Arunima Sengupta, Mircea Gabriel Stoleriu, Katharina Heinzelmann, Juliane Merl-Pham, Martin Irmler, Haní N Alsafadi, Eduard Trenkenschuh, Lenka Sarnova, Marketa Jiroušková, Wolfgang Friess, Stefanie M Hauck, Johannes Beckers, Nikolaus Kneidingen, Jürgen Behr, Anne Hilgendorff, Kamyar Hadian, Michael Lindner, Melanie Königshoff, Oliver Eickelberg, Martin Gregor, Oliver Plettenburg, Ali Önder Yildirim, Gerald Burgstaller

Next generation of gene-editing technologies for respiratory research and medicine
Sara Cuevas Ocaña (Nottingham, United Kingdom), Ana Lilia Serna Valverde, Liam Reed, Nicholas R Hannan

Role of cellular adhesion molecules in the presence of interstitial lung disease in patients with autoimmune diseases
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Belén Atienza-Mateo, Virginia Portilla, Víctor M. Mora-Cuesta, David Iturbe-Fernández, Leticia Lera-Gómez, Diana Prieto-Pena, Ricardo Blanco, Alfonso Corrales, Oreste Guailillo, Jóse M. Cifrián, Raquel López-Mejías, Miguel A. González-Gay
Spatial transcriptome analysis at single-cell resolution for understanding IPF pathogenesis
Naoki Watanabe (Tokyo, Japan), Yu Fujita, Takashi Ishiguro, Nobumasa Takahashi, Yoshihiko Shimizu, Noboru Takayanagi, Yoshinori Kawabata, Jun Araya, Yusuke Yamamoto, Kazuyoshi Kuwano

Computational drug repositioning and wet-lab validation approach identifies polo-like kinase inhibitors as potential therapeutics for pulmonary fibrosis
Takeshi Imakura (Tokushima, Japan), Seidai Sato, Kazuya Koyama, Hirohisa Ogawa, Takahiro Niumura, Kojin Murakami, Yuya Yamashita, Keiko Haji, Nobuhito Naito, Kozo Kagawa, Hiroshi Kawano, Yoshito Zamami, Keisuke Ishizawa, Yasuhiro Nishioka

Identification of different lung immune-phenotypes in Idiopathic pulmonary fibrosis (IPF)
Tamara Cruz (Barcelona, Spain), Nuria Mendoza, Sandra Casas, Fernanda Hernandez, Nuria Albacar, John Sembrant, Mauricio Rojas, Alvar Agusti, Jacobo Sellares, Rosa Fainer

Endothelial to mesenchymal transition (EndMT) and arterial remodelling in IPF patients
Mathew Eapen (Hobart (TAS), Australia), Archana Gaikwad, Prem Bhattarai, Surajit Dey, Collin Chia, Josia Larby, Greg Haug, Jade Jaffar, Glen Westall, Gurpreet Singh, Tillie Hackett, Wenyung Lu, Sukhwinder Singh Sohal

Late Breaking Abstract - Single cell RNA sequencing suggests Gαi2 is associated with ILD in pigeon fanciers
Domenico Sonnina (Glasgow, United Kingdom), Mark Spears, Louise V Wain, Richard J Allen, Olivia C Leavy, Bibekbrata Goop, Stephen J Bourke, Mariola Kurowska-Stolarska, Charles Mcharry

Endothelin-1 for the differential diagnosis between interstitial lung disease associated with autoimmune diseases and idiopathic pulmonary fibrosis
SARA REMUZGO-MARTÍNEZ (SANTANDER, Spain), Belén Atienza-Mateo, Verónica Pulito-Cueto, Fernanda Genre, Víctor M. Mora-Cuesta, David Iturbe-Fernández, Virginia Portilla, Oreste Gualillo, Alfonso Corrales, Santos Castañeda, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

Involvement of microRNAs in the development of the bleomycin-induced pulmonary fibrosis model
Vanessa Pitozzo (Parma (PR), Italy), Paola Caruso, Maria Gloria Pottelli, Silvia Pontis, Martina Bonatti, Francesca Ruscitti, Maurizio Civelli, Marcello Trevisani

Differentially expressed genes in diffuse Alveolar Damage (DAD) patterns of COVID-19

Metabolomic spittle analysis of post COVID-19 patients
Lucy Machado (Botucatu, Brazil), Robson Prudente, Estefania Franco, Mariana Gatto, Gustavo Mota, Luana Pagan, Luis Brizola, Maercio Dos Santos, Thulio Cunha, Robinson Sabino-Silva, Luiz Filho, Mario Martins, Paula Santos, Larissa Maia, André Albuquerque, Eloara Machado, Bruno Baldi, Suzana Tanni

Identification of highly immunogenic epitopes in the SARS-CoV-2 Spike protein to produce monoclonal antibodies

Elevated plasma levels of CXCL16 in severe COVID19 patients.
Sandra Smieszek (Washington, United States)

TNFTNFRSF1A, and TNFRSF1B variants affect TNFR1 and TNFR2 levels in patients with severe COVID-19
Ingrid Fricke-Galindo (Mexico City, Mexico), Ivette Buendía-Roldán, Leslie Chávez-Galán, Gloria Pérez-Rubio, Andy Ruiz, Yadira Palacios-Rodriguez, Rafael De Jesus Hernández-Zenteno, Ramcés Falfán-Valencia

Proteomic determinants of disease, mortality and sequelae in COVID-19 patients requiring invasive mechanical ventilation

Natalia Gorovenko (Kyiv, Ukraine), Mykola Ostrovsky, Zoi Rossokha, Liyili Fishchuk, Nadiia Korzh, Viktoria Vershyhora, Olga Dubitskaya, Natalia Medvedieva, Olena Popova
The dysregulation of the monocyte-dendritic cell interplay is associated with in-hospital mortality in COVID-19 pneumonia

Development of a Deep Learning Immune Cell Abundance Model Predict 28-Day Survival in Patients with Sepsis

Development of a Deep Learning Immune Cell Abundance Model Predict 28-Day Survival in Patients with Sepsis

Thematic poster: Novel discoveries in immune (dys)function in lung disease

Disease(s) : Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases
Method(s) : Cell and molecular biology, Imaging
Chairs : Niki L. Reynaert (Maastricht, Netherlands), Ken Bracke (Ghent, Belgium)

Immune signaling pathways and cell expression is linked to pulmonary fibrosis

Deciphering the role of angiogenic T cells in the lung vasculopathy of rheumatoid arthritis, systemic sclerosis and other autoimmune diseases

The role of airway neutrophils in primary ciliary dyskinesia

Identification of Irf8-dependent pulmonary DC subsets using scRNASeq in experimental model of asthma and tolerance

Eosinophil-epithelial respiratory cells crosstalk in IL-33 mediated inflammation 3D models.
**PA2818**

**Visualisation of longitudinal corticosteroid-mediated changes in T2 and IL-17A-producing cell populations using multiparameter CyTOF and tSNE**

Gareth Hynes (Oxford (Oxfordshire), United Kingdom), Gillian Donachie, Sophie Morgan, Matilda Downs, Ian Pavord, Timothy Hinks

**PA2819**

**Mechanisms of nasal epithelial cell permeability in eosinophilic Severe Asthma: effect of anti-IL5R therapy**

Katie Raby (London, United Kingdom), Piers Dixey, Nazanin Zounemat Kermani, Janice Koranteng, Fan Chung, Pankaj Bhavsar

**PA2820**

**Effect of IL-3, IL-5 and GM-CSF on adhesion and chemotaxis of blood eosinophil subtypes in allergic asthma**

Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasilyte, Jolita Palacionyte, Kestutis Malakauskas

**PA2821**

**Eosinophil Subtypes Affect Airway Smooth Muscle Cells Proliferation Autocrine Adjustment via Extracellular Matrix Proteins Production in Asthma**

Andrius Januskevicius (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Jolita Palacionyte, Kestutis Malakauskas

**PA2822**

**Activation of blood eosinophil subtypes proliferative properties by eosinophilopoietins in severe non-allergic eosinophilic asthma**

Jolita Palacionyte (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Andrius Januskevicius, Kestutis Malakauskas

**PA2823**

**LSC - 2022 - Effect of eosinophilopoietins on proliferative properties of blood eosinophil subtypes in allergic asthma**

Jolita Palacionyte (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Andrius Januskevicius, Kestutis Malakauskas

**PA2824**

**The Effect of Bronchial Allergen Challenge on Blood Eosinophil Subtypes-Specific miRNAs Expression in Allergic Asthma**

Egle Jurkeviciute (Kaunas, Lithuania), Paulina Malakauskaite, Andrius Januskevicius, Airidas Rimkunas, Jolita Palacionyte, Kestutis Malakauskas

**PA2825**

**Late Breaking Abstract - Electronic cigarette vapour suppresses human neutrophil functions and alters phenotype, irrespective of nicotine content.**

Alice Jasper (Birmingham, United Kingdom), Aduragbemi Faniyi, Lauren Davis, Frances Grudzinska, Robyn Halston, Dhruv Parekh, Elizabeth Sapey, David Thickett, Aaron Scott

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**TP-8 in thematic poster**

**Session 317**

13:00 - 14:00

**area**

**Thematic poster: Identifying therapeutic targets and novel drug strategies in pulmonary diseases**

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

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

**Chairs:** Shyreen Hassibi (London, United Kingdom), Thomas Geiser (Bern, Switzerland)

**PA2826**

**scRNA sequencing on human airway epithelium reveals metabolic changes during healthy aging**

Pavan Prabhala (Lund, Sweden), Sofia Wijk, Stefan Lang, Ellen Tufvesson, Leif Bjermer, Shamit Soneji, Gunilla Westergren-Thorsson, Mattias Magnusson

**PA2827**

**Identify Bcl3 as a novel biomarker shared between severe asthma and lung cancer using next-generation RNA sequencing from archival FFPE tissue biopsies**

Laila Salameh (Dubai, United Arab Emirates), Poorna Manasa Bhamidimarri, Noha Eleanam, Nival Ali, Youssef Dairi, Mouza Alsharhan, Syed Hammad Tirmazy, Qutayba Hamid, Bassam Mahboub, Saba Al Heialy, Rifat Hamoudi

**PA2828**

**Identification of mir-328-3p targets during wound repair of bronchial epithelial cells**

Beata Narożna (Poznań, Poland), Żuzanna Stachowiak, Wojciech Langwiński, Aleksandra Szczepankiewicz

**PA2829**

**Correction of structural changes of lung parenchyma in induced systemic sclerosis**

BohdanaDoskaluk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn

**PA2830**

**Hyaluronic acid-targeted metabolism in Acute Respiratory Distress Syndrome**

Fernanda Zamboni (Limerick, Ireland), Chun Kwok Wong, Maurice Collins

**PA2831**

**Zoledronic acid targeting of the mevalonate pathway causes reduced cell recruitment and attenuates pulmonary fibrosis**

Jesper Bergwik (Lund, Sweden), Lloyd Tanner, Andrew Single, Ravi Bhongir, Jonas Erjefält, Arne Egesten

**PA2832**

**GTX-003 reduces the fibrotic markers in human lung fibroblast from patients with interstitial lung diseases.**

Ana Montes Worboys (Sevilla, Spain), Jaume Mercade, María Molina-Molina, Eugenia Ruiz-Canovas
Small-molecule-mediated OGG1 inhibition attenuates pulmonary inflammation and lung fibrosis
Lloyd Tanner (Lund, Sweden), Andrew Single, Ravi Bhongir, Moritz Heusel, Tirthankar Mohanty, Christofer Karlsson, Carl-Magnus Clausson, Jesper Bergwik, Cecilia Andersson, Riya Oommen, Jonas Erjefält, Johan Malmström, Olov Wallner, Istvan Boldogh, Thomas Helladay, ChristinaKalderén, Arne Egesten

Extracellular matrix formation reduction by nintedanib varies in the Scar-in-a-Jar fibroblast model depending on pathway induction
Jannie M. B. Sand (Herlev, Denmark), Morten Aarkrogh Christensen, Pernille Juhl, Diana Julie Leeming

Delayed Treatment with the Novel HSP90 inhibitor TAS-116 Ameliorate Hydrochloric Acid-Induced Pulmonary Fibrosis
Pavel Solopov (Norfolk, United States), Ruben Manuel Luciano Colunga Biancatelli, Christiana Dimitropoulou, Tierney Day, John D Catravas

Antifibrotic effect of metformin in a rat double-hit bleomycin model
Martina Bonatti (Solna, Sweden), Paola Caruso, Vanessa Pitozzi, Silvia Pontis, Maria Gloria Pittelli, Caterina Frati, Costanza Anna Maria Lagrasta, Maurizio Civeili, Barbara Montanini, Marcello Trevisani

Targeting p16 to induce Krt8+ transitional stem cell state and promote alveolar regeneration
Bruno Ribeiro Baptista (Nancy, France), Gregoire Justeau, Marylene Toigo, Maeva Zysman, Charlotte Thiebaut De Menonvile, Randa Belgacemi, François Chabot, Sophie Lanone, Genevieve Derumeaux, Jorge Boczkowski, Laurent Boyer

Inhibition of neutrophilic inflammation by targeting the airway epithelial barrier with EP395.
Jennifer Kricker (Reykjavík, Iceland), Fridrik Gardarsson, Fredrik Lehmann, Maria Bech, Thorarinn Gudjonsson, Clive Page, Michael Parnham

Short chain fatty acids reduce inflamm-aging and ameliorate enhanced severity of acute lung injury in old mice
Christina Hildebrand (Hannover, Germany), Andreas Pich, Christian Mühlfeld, Marius Vital, Christina Brandenberger

Omeg@Silica microencapsulated fish oil counteracts tumor-related inflammation in lung adenocarcinoma cells
Elisabetta Pace (Palermo (PA), Italy), Claudia D’Anna, Caterina Di Sano, Giuseppe Cammarata, Simona Taverna, Serena Di Vincenzo, Mario Pagliaro, Antonio Scurria, Rosaria Cirmimna

Effect of dipeptidyl peptidase-4 inhibitor on emphysema model in mice
Hyoonsoo Joo (Seoul, Republic of Korea), Jin Woo Kim

KVX-053, a PTP4A3 inhibitor, as antidote against CEES-induced Acute Lung Injury
Ruben Manuel Luciano Colunga Biancatelli, Raphael Heinzer, Raphaela Kuebeck, Adam Benjafeld, Holger Woehrle

Mesenchymal Stromal Cells Modulate the Immune Cell Response in a Klebsiella Pneumoniae Induced Sepsis Model
Jack Brady (Galway, Ireland), Claire Masterson, Declan Byrnes, Shahd Horie, Hector Gonzalez, Sean McCarthy, Senthilkumar Alagesan, Daniel O’Toole, John Laffey

Late Breaking Abstract - Airway morphogenesis in wild type and heterozygous F508del mouse embryonic lungs treated by Elexacaftor/Tezacaftor/IVacaftor
Alice Hadchouel-Duvergé (Paris, France), Mickael LHuillier, Laura Aoust, Elise Dreano, Kim Landry Truchon, Christophe Delacourt, Lucie Jeantote, Isabelle Sermet Gaudelus

Late Breaking Abstract - CFAP74-mutations as cause of Primary Ciliary Dyskinesia (PCD): Clinical presentation and diagnostic challenges
Luisa Biebach (Münster, Germany), Sandra Cindric, Julia Koenig, Isabella Aprea, Gerard Dougherty, Johanna Raidt, Diana Bracht, Renate Ruppel, Jens Schreiber, Rim Hjejel, Heike Olbrich, Heymut Omran

TP-9 in thematic poster Session 318 13:00 - 14:00
Thematic poster: Central sleep apnoea, hypoventilation and hypoxia in adults and children

Thematic poster: Central sleep apnoea, hypoventilation and hypoxia in adults and children

Disease(s) : Sleep and breathing disorders
Method(s) : General respiratory patient care Physiology Pulmonary function testing Epidemiology Imaging
Chairs : Renaud Tamisier (Grenoble, France), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

Registry on the treatment of central and complex sleep-disordered breathing with adaptive servo-ventilation (READ-ASV): cohort profile
Michael Arzt (Regensburg, Germany), Oliver Munt, Jean-Louis Pepin, Raphael Heinzer, Raphaela Kuebeck, Adam Benjafeld, Holger Woehrle
Prevalence and risk factors of atrial fibrillation—Collective of the SERVE-HF Major Substudy
Christoph Fisser (Regensburg, Germany), Victoria Vaas, Lara Gall, Jannis Bareck, Joerg Priefert, Dominik Linz, Holger Woehrle, Helmut Teschler, Martin R Cowie, Michael Arzt

Echodermography may predict treatment emergent central sleep apnea
Abid Sourour (Sfax, Tunisia), Issraa EL WHADHANE, Aiman Ghrab, Amina Kotti, Amine Bahloul, Sameh Msaad, Samy Kammoun

Transcutaneous capnography usefulness in alveolar hypoventilation and titration in a sleep unit.
Maria Aguado Agudo (Zaragoza, Spain), Teresa Martin Carpi, Jorge Rodriguez Sanz, Laura Torralba

Outcome of Long Term Ventilation (LT V) following remote initiation and monitoring in patients with Chronic Hypercapnic Respiratory Failure (CHRF) during the SARS-CoV-2 pandemic.
seif Aldeen Mansour (Sheffield, United Kingdom), Duncan Nicholson, Bethen Nicholson, Sara Downs, Akshay Dwarakanath

Factors affecting domiciliary non-invasive ventilation compliance
Anita Saigal (Chesham (Buckinghamshire), United Kingdom), Amar Shah, Katia Florman, Nitika Kaushal, Hiu Kwong, Akul Karoshi, Laura White, Ryan Walker, Yan Lin, Ho Juen, Nikesh Devani, Stephanie Mansell, Swapna Mandal

Prediction of nocturnal ventilation by pulmonary function testing in patients with amyotrophic lateral sclerosis (ALS).
Friederike Tress (Magdeburg, Germany), Eva Luecke, Anke Lux, Jens Schreiber

Evaluation of polysomnography findings in children with genetic skeletal disorders
Nagehan Emiralioğlu (Ankara, Turkey), Halime Nayar Büyükşahin, Pelin Ozlem Simsek Kiper, Birce Sunman, Ismail Güzelkâz, Didem Alboğa, Meltem Akgül Erdal, Koray Boduroğlu, Gülen Eda Utine, Ebru Yalcın, Deniz Doğru, Nural Kiper, Ügur Ozcelik

A home ventilation support programme for children: Seven years of experience in a newly established center in the Czech Republic
Tereza Dousova (Praha, Czech Republic), Anna Chmelarova, Vaclav Koucky, Vendula Martinu, Eva Fürstova, David Megvinet-Chucesov, Zofia Varenyiova, Petr Pohunek

Creating a bedtime reading book for children starting on non-invasive ventilation
Meg Ruecroft (Wirral, United Kingdom), Liam Durkin, Ruth Trinick, Lyndsey Carlson

Global field safety notice (FSN) – a tertiary paediatric respiratory unit’s experience.
Sheila Javadpour (Dublin 18, Ireland), Susan Keogh, Fiona Ringholz, Ruth O'Reilly, Des Cox, Lisa Farrell, Fiona Healy, Dubhfeasa Slattery, Michael Williamson, Peter Greally, Basil Elnazir

Does cardiorespiratory polygraphy have a role in non-ventilated children with SMA?
Sidrah Chaudhry (London, United Kingdom), Aidan Lavery, Francois Abel, Martin Samuels

Oxygen desaturation indices as a predictor for obstructive sleep apnoea in children
Martin Samuels (London, United Kingdom), Supriya Shinde, Anna Selby, Ross Langley, Elise Buchan, Calum Presslie, Julia Megovern, Matthew Davies, Ruth Kingshott, Catherine Hill, Hazel Evans

Estimation of the apnoea–hypopnoea index from the oxyhaemoglobin desaturation index at 3%: proposition of a simple linear regression model
Miguel Lorente González (Madrid, Spain), Eva Maria Arias Arias, Jesús Muñoz Méndez, Sofia Valeria Yerovi Onofre, Javier Collada Carrasco, Annette Zevallos Villegas, Isabel Pina Máiquez, Trinidad Díaz Cambres

Sleep and blood pressure while staying for 10 months at the Concordia Station (3233m), Antarctica
Michael Furian (Zürich, Switzerland), Paul Robach, Sébastien Baillieux, Stephane Doubreleau, Pierrick Arnal, Samuel Verges

The effect of transcutaneous submental electrical stimulation on the blood pressure response in healthy volunteers
ABDULAZIZ ALSHARIFI (London, United Kingdom), Nianah Carter, Irampaye Akbar, Miquel Serna Pascual, Michael Cheng, Martino Pengo, Gianfranco Parati, Gerrard Rafferty, Joerg Steier

Late Breaking Abstract - Analysis of impact on Pittsburgh sleep quality index in a wide spread of central sleep apnoea (CSA) treated with adaptive servo ventilation (ASV): 6-month follow-up FACIL-VAA study results.
Renault Tamisier (Grenoble, France), Carole Philippe, Arnaud Prigent, Christelle Charley-Monaca, Jean Pierre Mallet, Thibault Gentina, Frédéric Gagnadoux, Claire Launois, Marie Pia D’Ortho, Toufik Didi, Tiphaine Guy, Frédéric Goutorbe, Christophe Perrin, Sandrine Pontier-Marchandise, Jean Louis Pépin, Jean Claude Meurice

14:00-14:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1
### Online skills lab: Respiratory sleep disorders: from diagnosis to management

**Aims:** to demonstrate how to choose the optimal diagnostic monitoring tool for sleep and breathing (polysomnography, type III device and telemonitoring) in patients with sleep-disordered breathing; to discuss the characteristics and indications of different positive airway pressure/noninvasive ventilation modes for various types of sleep-disordered breathing and hypoventilation; to demonstrate a practical approach for the use of different positive airway pressure modes in patients with obesity hypoventilation syndrome.

**Chairs:** Sophia E. Schiza (Heraklion, Greece), Winfried J. Randerath (Solingen, Germany)

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<th>Time</th>
<th>Session Content</th>
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<tr>
<td>14:15</td>
<td>Introduction</td>
<td>All Speakers</td>
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<tr>
<td>14:20</td>
<td>Choosing the best diagnostic monitoring tool for SDB patients</td>
<td>Yüksel Peker (Istanbul, Turkey)</td>
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<td>14:35</td>
<td>Different PAP/NIV modes for SDB and hypoventilation</td>
<td>Dries Testelmans (Leuven, Belgium)</td>
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<td>14:50</td>
<td>PAP treatment of obesity hypoventilation syndrome</td>
<td>Marta Susana Monteiro Drummond Freitas (Maia, Portugal)</td>
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<td>15:05</td>
<td>Conclusions and Q&amp;A</td>
<td>All Speakers</td>
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### Symposium: Evolving questions in chronic obstructive pulmonary disease management

**Aims:** to ask challenging questions faced every day when managing patients with chronic obstructive pulmonary disease (COPD); to inform clinicians and researchers about the latest updates concerning diagnosis, management and assessment of COPD covering four areas, namely, the role of eosinophils, the pathophysiology of a disease exacerbation, the relevance of mortality endpoints and the assessment of COPD patients for comorbidities; to interpret and elaborate on recent findings of clinical trials and their relevance to patient practice.

**Disease(s):** Airway diseases

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

**Tag(s):** Translational

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

**Chairs:** Omar S. Usmani (London, United Kingdom), Ayshe Arzu Yorgancioğlu (Konak, Turkey), Daiana Stolz (Basel, Switzerland)

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<th>Time</th>
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<tr>
<td>14:15</td>
<td>Understanding the role of eosinophilic COPD management: are clinical trial data ready for application in everyday clinical care?</td>
<td>Mona Bañadhel (London, United Kingdom)</td>
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<td>14:30</td>
<td>What is the best definition of an exacerbation in COPD patients to help demystify clinical trial data?</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
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<tr>
<td>14:45</td>
<td>Mortality and mortality assessment in COPD: is it possible to apply clinical trial data in everyday patient practice?</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
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<tr>
<td>15:00</td>
<td>Should all patients with COPD undergo body plethysmography, echocardiograms and computed tomography lung scans?</td>
<td>MeiLan K. Han (Ann Arbor, United States)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### State of the art session: Pulmonary vascular diseases

**Pulmonary hypertension in pulmonary disease**
**Aims:** to summarise the vast progress that has been made in understanding and treatment of pulmonary hypertension related to underlying lung disease in recent years; to discuss the biology and epigenetic causes of pulmonary hypertension, and how this information may help to develop novel treatments; to provide an update about recent trials in pulmonary hypertension; to provide novel insights into the pulmonary vascular nature of low DLCO-related pulmonary hypertension.

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

**Method(s):** Imaging, Physiology, Respiratory intensive care

**Tag(s):** Clinical

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

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Silvia Ulrich (Zurich, Switzerland)

**14:15**

The origin and consequence of pulmonary hypertension in patients with lung-related disease

Joan Albert Barberà Mir (Barcelona, Spain)

**14:30**

Pulmonary hypertension in patients with autoimmune disease

Marc Humbert (Le Kremlin-Bicêtre, France)

**14:45**

Failures and successes in treatment of pulmonary hypertension in patients with interstitial lung disease: past, present and future

Aaron Waxman (Boston, United States)

**15:00**

Low DLCO in patients with pulmonary arterial hypertension: a different vascular phenotype?

Esther Jeritza Nossent (Amsterdam, Netherlands)

**15:15**

Discussion and Q&A

All Speakers

**8C - live streamed**

Session 324 14:15 - 15:45

Clinical trials session: ALERT 3: COVID and interstitial lung diseases

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part in lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Elżbieta Magdalena Grabczak (Warszawa, Poland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

**Discussants:** Katerina Antoniou (Heraklion, Greece), Anita Simonds (London, United Kingdom)

**RCT2881**

RCT Abstract - Phase 3 RCT of C5a-Specific Vilobelimab in Severe COVID-19 Pneumonia


**RCT2882**

RCT Abstract - A randomised controlled trial of early intervention with oral favipiravir in patients hospitalised with COVID-19 (PIONEER Trial)

Christopher M Orton (London, United Kingdom), Pallav L Shah, Beatriz Grinsztejn, Gavin C Donaldson, Brenda Crabtree, James Tonkin, Breno R Santos, Sandra W Cardoso, Andrew I Ritchie, Francesca Conway, Maria P D Riberio, Javier Berasaluce, Anand Tana, Ravinder Singh, Cielito Caneja, Craig Leaper, Bobby Mann, Anna Samson, Pankaj K Bhavsar, Marta Boffito, Mark R Johnson, Anton Pozniak, Michael Pelly

**RCT2883**

RCT Abstract - Dipeptidyl Peptidase-1 Inhibition in Patients Hospitalized with COVID-19: a Multicentre Randomized Double-Blind Placebo Controlled Trial

Holly R. Keir (Dundee (Angus), United Kingdom), Merete B. Long, Hani Abo-Leyah, Yan H. Giam, Thenmalar Vadiveloo, Thomas Pembridge, Rebecca C. Hull, Lilia Delgado, Margaret Band, Fiona Mclaren-Neil, Simon Adamson, Eva Lahnsteiner, Amy Gilmour, Chloe Hughes, Benjamin Jm. New, David Connell, Rebecca Dowey, Helen Turton, Holling Richardson, Diana Cassidy, Jamie Cooper, Jay Santharalingam, Lavanya Diwakar, Peter Russell, Jonathan Underwood, Alexander Hicks, Dovinder Ps Dosanjh, Beth Sage, Devesh Dhasmana, Mark Spears, Aa Roger Thompson, Christopher Brightling, Andrew Smith, Manish Patel, Jacob George, Alison M Condliffe, Amelia Shoemark, Graeme Maclellan, James D Chalmers
Symposium: Utilising exercise testing in pre-operative assessment, rehabilitation and exercise prescription

**Aims**: to provide an overview of the different exercise modalities available to assess exercise capacity, assessment of exercise prescription and rehabilitation; to provide an overview of how exercise testing can be used to assess pre-operative risk and its utility in determining the most appropriate peri-operative care; to describe the importance of activity in healthy adults and patients; to demonstrate how to effectively provide an exercise prescription; to provide attendees with a global understanding of the importance of exercise and how to utilise it in their everyday practice for the benefit of patients.

**Disease(s)**: Airway diseases

**Method(s)**: Physiology Pulmonary rehabilitation Surgery

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Journalist

**Chairs**: Pierantonio Laveneziana (Paris, France), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

### 14:15 - 15:45

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Patient’s testimony</td>
<td>Carlos Alberto dos Anjos de Sousa (Portugal)</td>
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<tr>
<td>14:20</td>
<td>Modalities available to assess the exercise response and exercise rehabilitation</td>
<td>Sally J. Singh (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>14:35</td>
<td>Utilising the cardio-pulmonary exercise test to assess peri-operative risk</td>
<td>Sandy Jack (Liverpool (Merseyside), United Kingdom)</td>
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<tr>
<td>14:50</td>
<td>The health-related benefits of increased exercise and activity</td>
<td>Hayley Lewthwaite (Montreal (QC), Canada)</td>
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<tr>
<td>15:05</td>
<td>Exercise prescription in health and disease</td>
<td>Michael Welsch (Jackson, United States)</td>
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<td>15:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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Symposium: Interstitial lung diseases in connective tissue diseases: patient’s journey from diagnosis and new treatment strategies to transplantation

### 14:15 - 15:45

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**Disease(s)**: Airway diseases

**Method(s)**: Physiology Pulmonary rehabilitation Surgery

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Journalist

**Chairs**: Pierantonio Laveneziana (Paris, France), Jellien Makonga-Braaksma (Woudenberg, Netherlands)
Aims: to update attendees about the management of interstitial lung diseases (ILDs) associated with connective tissue diseases (CTD-ILDs), which has recently evolved with the increasing numbers of prescription for antifibrotics in addition to immunosuppressive drugs; to provide an update about diagnostic practice and assess the adjunctive value of a multidisciplinary approach to diagnosis; to describe therapeutic strategies and analyse the timing and contraindications of lung transplant referral as well as post-transplant management and outcomes; to discuss novel insights into the diagnostic procedure and the implication of genetics.

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Radiologist, Thoracic surgeon, Respiratory therapist

Chairs: Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

14:15 Utility of genetic assessment of patients with CTD-ILDs
Antoine Froidure (Bruxelles, Belgium)

14:30 CTD-ILDs: diagnosis and new treatment strategies up to transplantation
Bruno Crestani (Paris, France)

14:45 What are the main challenges when a CTD-ILD patient is referred for lung transplantation?
Jose Manuel Cifrian Martinez (Santander (Cantabria), Spain)

15:00 New trends in treatment of myositis-associated ILD
Ingrid Lundberg (Stockholm, Sweden)

15:15 Discussion and Q&A
All Speakers

Session 327 Oral presentation: Clinical utility of thoracic ultrasound: new trends

Disease(s): Pulmonary vascular diseases Thoracic oncology Airway diseases

Method(s): Imaging Respiratory intensive care Surgery

Chairs: Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Rahul Bhatnagar (Bristol, United Kingdom)

Søren Helbo Skaarup (Aarhus C, Denmark), Rasmus Aagaard, Stig Holm Ovesen, Jesper Weile, Hans Kirkegaard, Caroline Espersen, Mats Christian Højbjerg Lassen, Kristoffer Grundtvig Skaarup, Stefan Posth, Christian Laursen, Ask Bock, Michael Dan Arvig, Tor Biering-Sørensen

OA2901 Diaphragm dysfunctions among patients recovered from COVID
Vijay Hadda (New Delhi (Delhi), India), Arafat Hussain, Tejas Suri, Saurabh Mittal, Karan Madan, Anant Mohan

OA2902 Area method for measuring diaphragm movement in patients with unilateral pleural effusion.
Katrine Fjællegaard (Farum, Denmark), Jesper Kofod Petersen, Søren Skaarup, Paul Frost Clementsen, Christian B. Laursen, Rahul Bhatnagar, Uffe Bodtger

OA2903 A crossover comparison of telerobotic and conventional ultrasonography in children
Celine Delestrain (Cresteil, France), Catherine Belozertseva, Camille Jung, Mickael Shum, Carine Vastel, Emilie Georget, Fouad Madhi, Ralph Epau

OA2904 Lung ultrasound score for pediatric pneumonia surveillance
Ioana Mihaiel Ciuca (Timisoara (Timis), Romania), Monica Steluta Marc, Mihaela Dediu, Diana Popin, Pop Liviu

OA2905 Comparison between endoscopic and ultrasonographic evaluation of subglottic stenoses
Chiara Rocchetti (Brescia, Italy), Guido Levi, Roberto Magri, Mauro Novali, Federico Quadri, Damiano Bottone, Silvia Uccelli, Giulia Palmiotto, Giampietro Marchetti, Michela Bezzi, Laura Pini

OA2906 Diagnostic accuracy of a bespoke multiorgan ultrasound approach in suspected pulmonary embolism
Casper Falster (Odense, Denmark), Gro Egholm, Rune Wieg, Mikael Poulsen, Jacob Möller, Stefan Posth, Mikkel Brabrand, Christian Laursen

OA2907 Routine neck ultrasound and lymph node sampling by respiratory physicians in patients with thoracic disease – a prospective study
Basma El-Shaarawy (Alexandria, Egypt), Ahmed El Hefny, Heba Gharraf, Maged Hassan
Science slam: Science slam

**Aims:** A science slam is a scientific talk where four scientists (abstract authors) present their own scientific research work in 10 minutes. The focus lies on teaching current science to a diverse audience in an entertaining way. The presentation is judged by the audience.

**Chairs:** Amanda Oliver (Cambridge, United Kingdom), Alberto Maria Marra (Heidelberg, Germany)

**Oral presentation: Innovations in noninvasive respiratory support**

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

**Method(s):** General respiratory patient care, Imaging, Physiology, Respiratory intensive care, Pulmonary function testing

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Eui-Sik Suh (Beckenham (Kent), United Kingdom)

1. **OA2911**
   - NIV@Home: A pilot randomised controlled trial comparing home-based versus day admission models of NIV implementation
   - David Berlowitz (Melbourne (VIC), Australia), Nicole Sheers, Mark Howard, Liam Hannan, Linda Rautela, Marnie Graco, Sarah Retica

2. **OA2912**
   - High-flow nasal cannula (HFNC) at home as an alternative therapy in children in Spain
   - Ana Diez Izquierdo (Barcelona, Spain), Alba Torrent-Vernetta, Maria Morillo-Soriano, Marta Balsells-Costa, Ignacio Iglesias-Serrano, Sandra Rovira-Amigó, Ines De Mir-Messa, Silvia Gartner, Antonio Moreno-Galdó

3. **OA2913**
   - Monitoring COVID-19 pneumonia undergoing non-invasive respiratory support (NIRS), correlation between oscillometric reactance and Thoracic CT
   - Chiara Torregiani (Trieste (TS), Italy), Chiara Veneroni, Elisa Baratella, Antonio Segalotti, Stefano Tavano, Giulia Lapadula, Chiara Bozzi, Barbara Ruaro, Marco Confalonieri, Raffaele Lorenzo Dellacà

4. **OA2914**
   - Development and preliminary validation of automatic detection of patient-ventilator asynchrony during non-invasive ventilation using matrix profiles
   - David Berlowitz (Melbourne (VIC), Australia), Muhammad Juliandri, Uwe Aicklin, Goce Ristanoski, Liam Hannan, Nicole Sheers, Mark Howard

5. **OA2915**
   - Discussion
   - All Speakers

**Oral presentation: Advances in cystic fibrosis research**

**Disease(s):** Airway diseases

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

**Chairs:** Susan Madge (London, United Kingdom), Felix C. Ringshausen (Hannover, Germany)

1. **OA2916**
   - Early-infection Pseudomonas aeruginosa isolates from Cystic Fibrosis patients have high levels of LasB elastase activity
   - Agustina Llanos (Labège, France), Pauline Achard, Clarisse Lozano, Justine Bousquet, Magdalena Zalacain, Hélène Guet-Reville, Marlène Murriss-Espin, Marie Mittaine, Martin Everett

2. **OA2917**
   - Real-world effects of lumacaftor/ivacaftor (LUM/IVA) in people with cystic fibrosis (pwCF): final results of a long-term safety study using US CF Foundation Patient Registry and UK CF Patient Registry data
   - Claire Kim (Boston, United States), Simon Tian, Rachel Žahigian, Alexander Elbert, Susan Č. Charman, Siobhán Carr, Dilip Nazareth

3. **OA2918**
   - Triple CFTR modulator therapy is associated with improved endocrine pancreatic function in patients with cystic fibrosis
   - Caroline Steinack (Zürich, Switzerland), Thomas Gaisl, Felix Beuschlein, Schuurmans Macé Matthew, Matthias Ernst

4. **OA2919**
   - The effect of triple therapy cystic fibrosis transmembrane conductance regulator (CFTR) modulation on anxiety in people with cystic fibrosis
   - Orla O’Carroll (Dublin 4, Ireland), Catherine Mc Keown, Jack Bell, Trevor Nicholson, Charles Gallagher, Edward Mc Kone
Elexacaftor tezacaftor ivacaftor therapy alters plasma sphingolipid profiles in people with cystic fibrosis

Dirk Westhölter (Essen, Germany), Fabian Schumacher, Nuria Wülfinghoff, Sivagurunathan Sutharsan, Svenja Strassburg, Burkhard Kleuser, Peter A Horn, Sebastian Reuter, Erich Gulbins, Christian Taube, Matthias Welsner

Impacts of air pollution on the pulmonary morbidity of Cystic Fibrosis: an experimental study

Marion Blayac (Créteil, France), Céline-Hivda Yegen, Elie Al Marj, Mathieu Cazaunau, Antonin Bergé, Rachid Souktani, Patrice Coll, Sophie Lanone

Modelling the behaviour of the mucus layer in the small airways

James Shemilt (Manchester, United Kingdom), Alexander Horsley, Oliver Jensen, Alice Thompson, Carl Whitfield

8D     Session 331  14:30 - 16:50

Skills workshop: SW6 Cardiopulmonary rehabilitation beyond the basics

Aims: To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach; to describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity; to describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment; and to describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.

Disease(s): Airway diseases

Method(s): Pulmonary rehabilitation

Tag(s): Clinical

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

Chairs: Alice Malpass (Bristol, United Kingdom)

14:30 Introduction

14:30 Physical activity assessment and intervention
Chris Burtin (Diepenbeek, Belgium)

14:30 Neuromuscular electrical stimulation
Anouk W. Vaes (Horn, Netherlands)

14:30 Frailty assessment and intervention
Roberto Benzo (Rochester, United States)

14:30 Mindfulness interventions during cardiopulmonary rehabilitation
Ingeborg Farver-Vestergaard (Vejle, Denmark)

Studio - online     Session 332  15:30 - 16:00

Guidelines session: Guidelines on severe community acquired pneumonia
ERS/ESICM/ESCMID/ALAT guidelines

Disease(s): Respiratory infections

Method(s): General respiratory patient care

Tag(s): Clinical

Target audience: General practitioner, Physician in Pulmonary Training, Medical Student, Adult pulmonologist/Clinician, Clinical researcher

Chairs: Andrew Bush (London, United Kingdom)

15:30 Discussion and Q&A
Antoni Torres Marti (Barcelona, Spain), Ignacio Martin-Loches (Dublin, Ireland)

8N     Session 338  15:45 - 17:00

Mini symposium: Steps for a successful career in respiratory research
Early-career member session 2022

Aims: To present critical steps for a successful career in respiratory research and medicine; to describe how to build and manage a research team and how to publish successfully; to discuss challenges and opportunities for younger physicians and scientists in respiratory research; to provide tips for maintaining a healthy work-life balance.
**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Physiologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs**: Daniela Gompelmann (Vienna, Austria), Maxime Patout (Paris, France)

**15:45**  
Building and managing a research team  
Speaker to be confirmed  

**16:00**  
Successful publishing in a scientific journal  
Anh Tuan Dinh-Xuan (Paris, France)  

**16:15**  
Mina Gaga lecture  
Alexander Mathioudakis (Stockport, United Kingdom)  

**16:30**  
Time management strategies for clinical scientists and privacy  
Niki Ubags (Épalinges, Switzerland)  

**16:45**  
Discussion and Q&A  
All Speakers  

8F  
Session 339  
15:45 - 17:00

**Oral presentation: It is all about communication: novel interactions between lung structural cells and the immune system**

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

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

**Chairs**: H. Irene Heijink (Groningen, Netherlands), Alen Faiz (Ultimo (NSW), Australia)

**OA2935**  
LSC - 2022 - Human CD116+ fetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo  
Elza Evren (Stockholm, Sweden), Emma Ringqvist, Jean-Marc Doisne, Anna Thaller, Natalie Sleiers, Richard A. Flavell, James P. Di Santo, Tim Willinger

**OA2936**  
LSC - 2022 - A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in COPD  
Edmée Eyraud (Bordeaux, France), Elise Maurat, Pierre Vallois, Jean-Marc Sac-Epée, Pauline Henrot, Maëva Zysman, Levet Florian, Jean-Baptiste Sibarita, Hugues Bégueret, Pierre-Olivier Girodet, Thumerel Matthieu, Romain Hustache-Castaing, Cécile Contín-Bordes, Patrick Berger, Isabelle Dupin

**OA2937**  
LSC - 2022 - The potential role of innate lymphoid cells in non-allergic neutrophilic asthma model  
Anne-Charlotte Jonckheere (Leuven, Belgium), Brecht Steelant, Sven Seys, Tatjana Decaesteker, Jonathan Cremer, Ellen Dilissen, Dominique Schols, Yoichiro Ikawara, Jeroen Vanoorbeek, Lieven Dupont, Dominique Bullens

**OA2938**  
Altered Site-Specific Expression Patterns of Interleukin-33 and its Receptor ST2 in COPD Lungs  
Caroline Sanden (Lund, Sweden), Premkumar Siddharaj, Jimmie Jönsson, Caroline Lindö, Josquin Nys, Darren Schofield, Ian Scott, Sandra Lindstedt, Roland Kolbeck, Alison Humbles, Rene Lutter, Suzanne Cohen, Jonas Erjefält

**OA2939**  
Airway myeloperoxidase (MPO) is associated with increased risk of exacerbations in COPD  
Sanna Rosengren (Mölnadal, Sweden), Stefan Tangefford, Giovanna De Palo, Jenny Horndahl, Madeleine Ingelsten, Amy Gilmour, Merete B Long, Holly R Keir, Kristoffer Ostridge, James D Chalmers

**OA2940**  
Oxidised IL-33 signals via RAGE/EGFR to drive a COPD-associated phenotype  
Sam Strickson (CAMBRIDGE, United Kingdom), Kirsty F. Houslay, Victor A. Negri, Yoichiro Ohne, Tomas Ottosson, Roger B. Dodd, Catherine Chaillan Huntington, Jingjing Li, Helen Killick, D. Gareth Rees, Sofia Koch, Gary P. Sims, Ian C. Scott, Xavier Romero Ros, E. Suzanne Cohen

**OA2941**  
IL-13 modulates exosome production and miRNAs cargo in bronchial epithelial cells in severe asthma  
Martin Klein (Québec, Canada), Pierre-Alexandre Gagnon, Mahrouka Salem, Mahmoud Rouablia, Jamila Chakir

**OA2942**  
Profiling small extracellular vesicles (EVs) in idiopathic pulmonary fibrosis (IPF)  
Sahba Asghar (Cambridge, United Kingdom), Sue Monkley, Lynne Murray, Catherine Overed-Sayer, Philip Molyneaux

**OA2943**  
Airway epithelial gene expression is altered in survivors of preterm birth  
Denby Evans (Nedlands, Australia), Jessica Hillas, Thomas Iosifidis, Shannon Simpson, Anthony Kicic, Patricia Agudelo-Romero

**OA2944**  
Late Breaking Abstract - Beyond barrier function – claudin-1 as a therapeutic target candidate for idiopathic pulmonary fibrosis  
Jannik Ruwisch (Hannover, Germany), Benedikt Jäger, Oliver Terwolbeck, Geoffrey Teixeira, Frank Juehling, Thomas F. Baumert, Antje Prasse
**Session 340**  
15:45 - 17:00

**Oral presentation: New insights into paediatric asthma diagnosis and management of severe asthma**

**Disease(s):** Airway diseases

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

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

- **OA2945**  
  Discussion  
  All Speakers

- **OA2946**  
  Genome-wide exploration of inflammation-related proteins and Type 2 asthma  
  Natalia Hernandez-Pacheco (Stockholm, Sweden), Sophia Björkander, Susanna Klevebro, Simon Kebede Merid, Ashish Kumar, Ida Mogensen, Christer Janson, Lena Palmberg, Marianne Van Hage, Antonios Georgellis, Anna Bergström, Inger Kull, Erik Melen

- **OA2947**  
  Asthma in one breath: metabolic signatures for allergic asthma in children by real-time breath analysis  
  Alexander Möller (Zürich, Switzerland), Ronja Weber#, Bettina Streckenbach#, Jerome Kaeslin, Lara Welti, Demet Inci, Nathan Perkins, Renato Zenobi, Srdjan Micic

- **OA2948**  
  Evaluation of nocturnal asthma control (NAC-study): Comparative multicenter analysis of subjective and objective methods  
  Swantje Weisser (Göttingen, Germany), Christiane Lex, Lena Roth, Katharina Kainz, Veronika Fajgelj, Alexander Schuetzenmeirer, Patrick Fischer, Volker Gross, Matthias Reinweber, Angela Zacharasiewicz, Sebastian Kerzel

- **OA2949**  
  ADRB2 Arg16Gly is associated with nocturnal asthma symptoms despite LABA use in two European pediatric asthma studies  
  Susanne J. H. Vijverberg (Utrecht, Netherlands), Trang My Nguyen, Javier Perez-Garcia, Simone Hashimoto, Anne H. Neerinck, Mahmoud I. Abdel-Aziz, Catarina Almqvist, Olaia Sardon Prado, Paula Corcuera, Javier Korta, Uros Potocnik, Michael Kabeisch, Aletta D. Kranoveld, Maria Pino-Yanes, Anke H. Maitland Van Der Zee

- **OA2950**  
  Dupilumab efficacy in children with uncontrolled type 2 asthma with baseline high/medium ICS dose  
  Jorge Fernando Maspero (Ciudad Autónoma Buenos Aires, Argentina), Martii A Antila, Neal Jain, Antoine Deschildre, Leonard B Bacharier, Arman Alrincatal, Elizabeth Laws, Bolanle Akinlade, Shahid Siddiqui, Juby A Jacob-Nara, Yamo Deniz, Paul J Rowe, David J Lederer, Megan Hardin

- **OA2951**  
  Detection of structural airway changes on computed tomography in paediatric severe asthma  
  Wytse van den Bosch (Voorburg, Netherlands), Qianting Lv, Elroyz Andrinopoulou, Hettie Janssens, Pierluigi Ciet, Harm Tiddens

- **OA2952**  
  Continuous associations of type 2 biomarkers and efficacy of dupilumab in children with uncontrolled, moderate-to-severe asthma  
  Leonard Bacharier (Nashville, United States), Daniel J Jackson, Ian Pavord, Jorge Maspero, Alessandro Fiocchi, Xuezhou Mao, Juby A Jacob-Nara, Yamo Deniz, Elizabeth Laws, Leda P Mannent, Bolanle Akinlade, Heribert Staudinger, David Lederer, Megan Hardin

- **OA2954**  
  Neutrophil granulocytes from Th1-high asthmatics show a reduced chemotactic response to bacterial compound ex vivo  
  Solveig Lemmel (Luebeck, Germany), Anna Wohlers, Tim Becker, Anna Bachmann, Thomas Bahmer, Gesine Hansen, Erika Von Mutius, Klaus F. Rabe, Oliver Fuchs, Anna-Maria Dittrich, Bianca Schaub, Christine Happe, Markus Weckmann, Matthias Volkmar Kopp

- **OA2955**  
  Late Breaking Abstract - Assessment of the long-term safety and efficacy of dupilumab in children with asthma: LIBERTY ASTHMA EXCURSION  

**Session 341**  
15:45 - 17:00

**Oral presentation: The environment and human health: from cohort to cell culture studies**

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

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

**Chairs:** Isabella Annesi Maesano (Montpellier, France), Rafael E. de la Hoz (New York, United States)
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<th>OA2957</th>
<th>Real time in vivo investigation of alveolar macrophage dynamics and immune response during nanoparticle inhalation</th>
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<td>Qiongliang Liu (Neuherberg, Germany), Lin Yang, Chenxi Li, Otmar Schmid, Tobias Stoeger, Markus Rehberg</td>
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<th>OA2958</th>
<th>Printer-toner-emitted nanoparticle exposure enhances air-airway bacterial crossover in printing floor workers</th>
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<tr>
<td></td>
<td>Fransiskus Xaverius Ivan (Singapore, Singapore), Michéal Mac Aoagán*, Nur A’Tikah Binte Mohamed Ali, Pei Yee Tiew, Magdiel Ingrid Setyawati, Dhimiter Bello, Philip Demokritou, Kee Woei Ng, Sanjay H. Chotirmall</td>
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<th>Impact of air pollution on systemic sclerosis associated interstitial lung disease severity: a retrospective two-center cohort study</th>
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<td>Anaïs Roessé (BOBIGNY, France), Lucile Sese, Guillaume Chassignon, Benjamin Chaigne, Stéphane Tran Ba, Salma Jebri, Pierre-Yves Brillet, Marie-Pierre Revel, Frédérique Aubourg, Robin Dhone, Frédérique Caux, Luc Mouthon, Isabella Annesi-Maesano, Hilario Nunes, Yurdagül Uzunhan</td>
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<th>OA2960</th>
<th>Exposure-response relationship between personal exposure to household air pollution and blood pressure in adult women across four resource-poor settings</th>
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<td>Laura Nicolau (Baltimore, United States), Lindsay Underhill, Shakir Hossen, Suzanne Simkovich, Gurusamy Thangavel, Ghislaine Rosa, John Mccracken, Victor Davila-Ramina, Lisa De Las Fuentes, Ashley Quinn, Maggie Clark, Anaïta Daz, Ajay Pillarissetti , Kyle Steenland, Lance Waller, Shirin Jabbarzadeh, Jennifer Peel, William Checkley</td>
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<th>OA2961</th>
<th>Investigating the impact of London’s Ultra Emission Zone (ULEZ) on children’s physical activity and travel patterns: Baseline data from the CHILL Study</th>
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<tr>
<th>OA2962</th>
<th>Short-term effects of weather and air pollution on physical activity in COPD patients</th>
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<td></td>
<td>Alicia Josa-Cullerè (Barcelona, Spain), Ane Arbillaga-Etxarri, Eva Balcells, Nuria Celorrio, Alicia Marin, Mònica Montengudo, Diego A. Rodríguez, Robert Rodríguez-Roisín, Magda Bosch De Basea, Maria Foraster, Pere Simonet, Pere Torán-Monseñerr, Pere Vall-Casas, Judith Garcia-Aymerich</td>
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<th>OA2963</th>
<th>Modelling the pathophysiological effects of geography-specific landscape fire smoke</th>
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<td>Henry Gómez (Bar Beach, Australia), Dusan Ilic, Peter Robinson, Graeme Zosky, Tatt Haw, Kanth Vanka, Ellen Small, Tesfaldet Beyene, Thava Palanisami, Doan Ngo, Elizabeth Holiday, Megan Jensen, Vanessa Mcdonald, Vanessa Murphy, Peter Gibson, Jay Horvat</td>
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<tr>
<th>OA2964</th>
<th>Differential toxicity in an alveolar epithelial cell line of fine particulate matter from brakewear, roadwear, and diesel exhaust</th>
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<td>James Parkin (Southampton, United Kingdom), Lareb Dean, Dawn Cooper, Robert Ridley, Elizabeth Davies, Franco Conforti, Joseph Bell, Yihua Wang, Julian Downward, Miriam Gerlofs-Nijland, Flemming Cassee, Donna Davies, Richard Cook, Matthew Loxham</td>
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<tr>
<th>OA2965</th>
<th>LSC - 2022 - Real time in vivo investigation of the innate immune response during ventilator-assisted nanoparticle inhalation</th>
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<tr>
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<td>Qiongliang Liu (Neuherberg, Germany), Yang Lin, Chenxi Li, Otmar Schmid, Tobias Stoeger, Markus Rehberg</td>
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<tr>
<th>OA2966</th>
<th>Late Breaking Abstract - Specific cellular perturbation patterns in lung inflammation after nanoparticle inhalation</th>
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<tbody>
<tr>
<td></td>
<td>Carola Voss (Neuherberg, Germany), Meshal Ansari, Maximilian Strunz, Ilías Angelidís, Verena Haefner, Christopher Mayr, Carolina Ballester-Lopez, Qiongliang Liu, Liayong Han, Ali Önder Yildirim, Thomas Conlon, Markus Rehberg, Herbert Schiller, Tobias Stoeger</td>
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<tr>
<th>OA2967</th>
<th>Discussion</th>
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<td>All Speakers</td>
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### 8A - live streamed  Session 342  16:00 - 17:30

**Clinical cases: Lungs on fire: Airway diseases?**

**Aims:** To facilitate the presentation of 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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Nurse, Radiologist, Respiratory physiotherapist, Respiratory therapist, Medical Student

**Chairs:** Omar S. Usmani (London, United Kingdom), Ayşe Arzu Yorgancıoğlu (Konak, Turkey), Daiana Stolz (Basel, Switzerland)

**Discussants:** Mina Gaga (Athens, Greece), Marc Miravitles (Barcelona (CT), Spain)
### 8B - live streamed  
**Session 343  16:00 - 17:30**

**Respiratory medicine meets other disciplines: Update on the diagnosis and treatment of pulmonary hypertension**

**ERS/ESC guidelines on pulmonary hypertension 2022**

**Aims:** to highlight the changes from the previous guidelines; to discuss unknown areas where the guidelines cannot fulfill the clinical need; and to discuss the new guidelines in a pro/con debate, what the clinical consequences will be and how this will change diagnosis.

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

**Tag(s):** Clinical

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

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Silvia Ulrich (Zurich, Switzerland), Stephan Rosenkranz (Köln, Germany)

- **16:00**  
  **Patient's testimony**  
  Gergely Meszaros (Vac, Hungary)

- **16:05**  
  **ERS/ESC guidelines on pulmonary hypertension: clinical approach and changes from the previous guidelines**  
  Marius M. Hoeper (Hannover, Germany)

- **16:20**  
  **Treatment options and recommendations**  
  Marion Delcroix (Leuven, Belgium)

- **16:35**  
  **Comments on the guidelines: strengths and weaknesses**  
  Sean Gaine (Dublin, Ireland)

- **16:50**  
  **Interactive cases**  
  Mona Lichtblau (Zürich, Switzerland)

- **17:05**  
  **Discussion and Q&A**  
  All Speakers

### 8C - live streamed  
**Session 344  16:00 - 17:30**

**Hot topics: Hyperpolarised gas magnetic resonance imaging: a new frontier in functional pulmonary imaging**

**Aims:** to increase the understanding of recent advancements in lung imaging and to compare lung imaging diagnostic capabilities and effectiveness with current modalities; to discuss the role of hyperpolarised gas magnetic resonance imaging (MRI) for lung imaging in patients with various respiratory diseases.

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

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

**Tag(s):** Clinical

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

**Chairs:** Elżbieta Magdalena Grabczak (Warszawa, Poland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

- **16:00**  
  **The recent evolution of hyperpolarised gas MRI from medical physics theory to patient care**  
  James M. Wild (Sheffield (South Yorkshire), United Kingdom)

- **16:15**  
  **Hyperpolarised gas MRI to guide patient management in severe asthma and COPD**  
  Sarah Svenningsen (Hamilton, Canada)
Hyperpolarised gas MRI for evaluation of persistent symptoms in patients with long COVID
emily fraser (Oxford, United Kingdom)

Hyperpolarised gas MRI: a novel biomarker of fibrotic lung disease
Speaker to be confirmed

Discussion and Q&A
All Speakers

8G - live streamed  Session 345  16:00 - 17:30
Hot topics: Pharmacotherapy for sleep disordered breathing
Specific approaches to different pathophysiological traits of obstructive sleep apnea
Aims: to describe recent advances in pharmacotherapy for patients with sleep disordered breathing; to explain the impact of the identification of different pathophysiological traits, including upper airway muscle function, respiratory control, arousal from sleep and upper airway anatomy, on the choice of pharmacological drug classes; to describe novel possibilities and tools for identifying these different traits based on polysomnography.

Disease(s): Sleep and breathing disorders
Method(s): General respiratory patient care  Physiology  Public health
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)
Chairs: Pierantonio Laveneziana (Paris, France), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

16:00 Various pharmacological approaches to weight loss management in patients with sleep disordered breathing
Johan Verbraecken (Edegem (Antwerp), Belgium)

16:15 Pharmaceutical muscle activation of the upper airways
Carolina Lombardi (Milano (MI), Italy)

16:30 Current perspectives in pharmacotherapy targeting brain breathing regulation
Jan A. Hedner (Göteborg, Sweden)

16:45 Influence of pharmacotherapy on arousal
Ludovico Messineo (Boston, United States)

17:00 Discussion and Q&A
All Speakers

8H - live streamed  Session 346  16:00 - 17:30
Symposium: Lung involvement in common variable immunodeficiency: from diagnosis to lung transplantation
Aims: to describe the physiopathology of common variable immunodeficiency (CVID) and current diagnostic and therapeutic approaches for this disorder and update attendees about recent advances in this context. CVID-associated lung involvement might be due to respiratory infection and bronchiectasis or non-infectious immune-based diffuse interstitial disorders. This clinical picture and the possible contraindications to lung transplant candidacy and challenges in post-transplant follow-up of these patients will be addressed.

Disease(s): Airway diseases  Paediatric respiratory diseases  Respiratory infections
Method(s): General respiratory patient care  Pulmonary function testing  Transplantation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist
Chairs: Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

16:00 Pathogenesis and diagnosis of CVID in paediatric and adult patients
Pere Soler (Barcelona, Spain)

16:15 Prevention and treatment of pulmonary and extrapulmonary infections in CVID patients
David M. Lowe (London, United Kingdom)

16:30 Non-infectious lung involvement in CVID diagnosis and treatment
Elisabetta Renzoni (London, United Kingdom)
**Guidelines session: ERS Guideline on various aspects of quality in lung cancer care**

**ERS/ESICM/ESCMID/ALAT guidelines**

**Disease(s):** Thoracic oncology  

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

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Thoracic surgeon, Thoracic oncologist, Medical Student, Physician in Pulmonary Training  

**Chairs:** Andrew Bush (London, United Kingdom)  

**16:15** Discussion and Q&A  
Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)  

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**Pro-Con debate: Does the aggressive management of solitary pulmonary nodules pay off?**

**Aims:** to inform the audience about the different management approaches to solid and subsolid nodules tailored to patient characteristics and geography; to provide an understanding of the controversies that currently exist regarding aggressive and prudent management.  

**Disease(s):** Thoracic oncology  

**Method(s):** General respiratory patient care, Imaging, Surgery  

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Thoracic oncologist, Thoracic surgeon  

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Torsten Gerriet Blum (Berlin, Germany)  

**17:00** The aggressive management of solitary pulmonary nodules always pays off: Pro  
Stefano Elia (Roma (RM), Italy)  

**17:10** The aggressive management of solitary pulmonary nodules always pays off: Con  
Georgia Hardavella (Athens, Greece)  

**17:20** Discussion and Q&A  
All Speakers
08:00-09:15
**INDUSTRY VIRTUAL SYMPOSIUM**  
SEE PAGE 1

08:00-09:15
**INDUSTRY EARLY MORNING SYMPOSIUM**  
SEE PAGE 1

**8C - live streamed**  
Session 368  
08:00 - 09:15

Joint session: Updates on inhalers for COPD and asthma  
A joint ERS/Industry session, supported by Boehringer Ingelheim, Chiesi  
**Aims** : Please note that this session is not accredited  

**Chairs** : Frans H.C. De Jongh (Enschede, Netherlands), Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain)

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<td>Introduction</td>
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<td>08:05</td>
<td>How to choose and use an inhaler device?</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>3073</td>
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<tr>
<td>08:20</td>
<td>How to monitor and improve inhaler technique?</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
<td>3074</td>
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<tr>
<td>08:35</td>
<td>How to assess and improve inhaler adherence?</td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
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<td>08:50</td>
<td>Panel discussion and Q&amp;A</td>
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08:00-09:15
**INDUSTRY EARLY MORNING MINI-SYMPOSIUM**  
SEE PAGE 1

08:00-08:45
**INDUSTRY SKILLS LAB WORKSHOP**  
SEE PAGE 1

**8D**  
Session 374  
08:00 - 10:20

Skills workshop: SW7 Thoracic ultrasound  
**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>08:00</td>
<td>The normal thoracic cavity</td>
<td>Gilles Mangiapan (Creteil, France), Jesper Rømhild Davidsen (Odense C, Denmark)</td>
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<tr>
<td>08:30</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Pia Iben Pietersen (Odense NØ, Denmark), Valentina Pinelli (Sarzana, Italy)</td>
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<td>09:00</td>
<td>Case studies</td>
<td>Hugh Welch (Bristol, United Kingdom), Rachelle Asciak (SIGGIEWI, Malta)</td>
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<td>09:30</td>
<td>Lymph node biopsy using models</td>
<td>Rachid Tazi Mezalek (Barcelona, Spain), Konstantina Kontogianni (Heidelberg, Germany)</td>
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08:15 - 09:30
**Oral presentation: Novel approaches to physiologic studies of lung function**
Disease(s) : Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : Cell and molecular biology, Imaging, Pulmonary function testing, Physiology, Respiratory intensive care, General respiratory patient care

Chairs : Andrea Aliverti (Milan, Italy), Francesca Pennati (Milano (MI), Italy)

OA3106
The Dyspnoea Challenge - a novel approach for measuring exertional dyspnoea
Craig Aitken (Brisbane (QLD), Australia), James Walsh, Glenn Stewart, Sabapathy Surendran, Lewis Adams, Norman Morris

OA3107
Small airway function after Covid-19 infection
Sanna Kjellberg (Trollhättan, Sweden), Alexander Holm, Helena Sandén, Anna-Carin Olin

OA3108
Ventilator driving pressure correlates with neuroinflammation in healthy pigs ventilated for 50 hours
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Jessica Wittman, Matt Gani, Doug Evans, Steve Reynolds

OA3109
COPD Origins: Understanding Extracellular Matrix (ECM) Remodelling using bio-imaging techniques
Chia Wei Kong (SOUTHAMPTON (Hampshire), United Kingdom), Tom Havelock, Michael Bennett, Jannie Marie Bülow Sand, Sarah Rank Ronnow, Cosma Mirella Spalluto, Staples Karl, Kristoffer Ostridge, Hannah Burke, Anna Freeman, Aishath Fazleen, Tom Wilkinson

OA3110
A novel method for improving gaseous exchange by applying percussive ventilation in the expiratory phase
Ferenc Peták (Szeged, Hungary), Gergely H Fodor, Álmos Schranc, Roberta Sády, Adám L Balogh, André Dos Santos Rocha, Davide Bizzotto, Walid Habre, Raffaele L Dellacà

OA3111
Pulmonary vascular biomechanics imaged with synchrotron phase contrast microtomography in live rats
Sam Bayat (Grenoble, France), Jose-Luis Cercos, Luca Fardin, Gaetano Perchiazzi, Alberto Bravin

OA3112
Characterizing respiratory mechanics in lymphangioleiomyomatosis by oscilometry and quantitative CT
Cynthia Nohra (Toronto, Canada), Joyce Wu, Anastasiasia Vasileva, John Thenganatt, Clodagh Ryan, Micheal Mcinnis, Zoltan Hantos, Chung-Wai Chow

OA3113
Pulmonologists collaborate with explainable artificial intelligence for superior interpretation of pulmonary function tests
Wim Janssens (Leuven, Belgium), Nilakash Das, Sofie Happaerts, Anh Tuan Dinh-Xuan, Eef Vanderelst, Christel Haenebalcke, Guy Brusselle, Eric Derom, Felip Burgos, Frits Franssen, Henrik Watz, Jennie Quint, Jorges Moises, Marco Contoli, Michael Steiner, Neel Greening, Rudi Peché, Sherif Gonem, Vitali Poberezhets, William Mann, Marko Topalovic

OA3114
Investigating breathing patterns of asthma patients during exercise using a novel parameter
Arjen Pelgröm (Enschede, Netherlands), Frans De Jongh, Ilonka Van Veen

OA3115
Late Breaking Abstract - Diagnostic potential of forced oscilometry technique in adults with normal spirometry: data from the LEAD general population cohort
Christoph Valach (Vienna, Austria), Chiara Veneroni, Emiel Wouters, Alessandro Gobbi, Raffaele Dellaca’, Marie-Kathrin Breyer, Sylvia Hartl, Ovat Sunanta, Pasquale Pompilio, Robab Breyer-Kohansal

OA3116
Discussion
All Speakers

Session 376
08:15 - 09:30

Oral presentation: Challenges in respiratory physiotherapy assessment and management

OA3117
Differences in pulmonary and extra-pulmonary traits between women and men with COPD
Sara Souto-Miranda (Aveiro, Portugal), Alex J. Van ’t Hul, Anouk W. Vaes, Jeanine C. Antons, Remco S. Djamin, Daisy J.A. Janssens, Frits M.E. Franssen, Alda Marques, Martijn A. Spruit

OA3118
Reference equations for quadriceps function in COPD: a multicenter study
Didier Saey (Québec (QC), Canada), Sophie Tanguay, André Nyberg, Sarah Marklund, Erik Frykholm, Jana De Brandt, Chris Burtin, François Maltais

OA3119
Impact of ActiGraph® cutoffs on time spent in moderate to vigorous physical activities in COPD.
Patricia Filipa Sobral Rebelo (Trancoso, Portugal), Joana Antão, Sara Almeida, Dina Brooks, Alda Marques
Use of an automatic 6-minute walk test recording system in patients with chronic respiratory diseases
Rodrigo Torres Castro (Barcelona, Spain), Heribert Pascual, Gemma Roqué, María Palomo, Michelle Rodríguez, Elena Gimeno-Santos, Xavi Masip Bruin, Albert Alonso, Joan Albert Barberà, Isabel Blanco

Fatigue and functional capacity post COVID-19
Nicola Sante Diciolla (Madrid, Spain), David García-Pascual Abad, Ana Ampuero López, María Torres Laconoma, Alda Marques, María José Yuste Sánchez

The impact of Covid-19 on physical activity one year after hospital discharge
Eva Arens (Knokke, Belgium), Fien Hermans, Bihiyga Salhi, Evelien De Burck, Katlijn Geerickx, Wendy Van Loo, Thierry Troosters, Eric Derom, Eva Van Braeckel, Yannick Vande Weygaerde, Heleen Demeyer

Respiratory muscle strength in patients post infection by COVID-19
Maria Fernanda Lima Souza Saldanha (São Paulo, Brazil), Vitor Costa Souza, Maria Milena Lafetá Lima, Thais Carvalho Francescantonio Menezes, Fabiana Oliveira Penido, André Luiz Pereira Albuquerque, Suzana Erico Tanni, Jaqueline Sonoe Ota Arakaki, Luiz Eduardo Nery, Eloara V. M. Ferreira, Priscila Abreu Sperandio

Diagnostic accuracy of respiratory muscle assessments to predict weaning outcomes in the intensive care unit (ICU): a systematic review and meta-analysis
Diego Poddighe (Leuven, Belgium), Marine Van Hollebeke, Yasir Qaiser Choudhary, Débora Ribeiro Campos, Greet Hermans, Rik Gosselink, Daniel Langer

Late Breaking Abstract - Telemonitoring of home mechanical ventilation in Brazil: Clinical and economical outcomes in a private brazilian home care.
João Paulo Silveira (, Brazil), Maria Hayashi, Ruy Pires, Paola Pastri, Claudia Albertini

Discussion
All Speakers

Oral presentation: Pulmonary embolism: acute and long-term management
Disease(s): Pulmonary vascular diseases, Thoracic oncology
Method(s): Pulmonary function testing, Epidemiology, General respiratory patient care, Imaging, Respiratory intensive care
Chairs: Luis Jose JARA PALOMARES (Sevilla, Spain), Francis Couturaud (Brest, France)

Diagnostic and prognostic value of pentraxin-3 in pulmonary thromboembolism

Right heart strain assessment on CTPA following acute pulmonary embolism: interobserver variability between radiologists and thoracic physicians
Chinthaka Samaranyake (London, United Kingdom), Michelle Craigie, Peter Bell, Colm Mcabee, John Upham, John Coucher, Gregory Keir

Baseline characteristics and Outcomes in Patients with Venous Thromboembolism and Active Lung Cancer – a Nationwide Cohort Study in France
Laurent Bertoletti (Saint Etienne Cedex, France), Gaëlle Gusto, Artak Khachatryan, Nadia Quignot, Jose Chaves, Audrey Moniot, Ruth Mokokong, Isabelle Mahé

Cancer Associated Thrombosis: how many lung cancer patients seen in clinical practice would be eligible to a DOAC randomized controlled trial?
Valentine Mismetti (Saint Etienne, France), Bastien Petit, Simon Soudet, Géraldine Poenou, Emma Zarrat, Théo Machuron, Sandrine Acassat, Ludovic Plaisance, Hélène Helfer, Claire Le Hello, Marie-Antoinette Sevestre, Isabelle Mahé, Laurent Bertoletti

Catheter-directed therapies in chronic thromboembolic pulmonary hypertension
Jenny Yang (La Jolla, United States), Nick Kim, Seth Kligerman, Timothy Fernandes, Demosthenes Papamatheakis, David Poch, Michael Madani, Victor Pretorius, Kim Kerr

Efficacy and safety of balloon pulmonary angioplasty for patients with chronic thromboembolic pulmonary hypertension comorbid to chronic obstructive pulmonary disease
Yu Taniguchi (Kobe, Japan), Hiroyuki Fuji, Sachio Yoneda, Keisuke Miwa, Kenichi Yanaka, Noriaki Emoto, Kenichi Hirata

Predictors of perioperative morbidity and mortality in patients with Antiphospholipid antibody syndrome (APS) and chronic thromboembolic pulmonary hypertension (CTPEH) after Endarterectomy Pulmonary.
Elyzabeth Bermudez, Rodrigo Zebadua, Julio Lopez, Mario Pozas, Laurina Zorrilla, Tomás Pulido, Julio Sandoval, Nayeli Zayas
**OA3134 Discussion**
All Speakers

**TP-1 in thematic poster area**
**Session 379**
**08:30 - 09:30**

**Thematic poster: Diagnostic approaches to dyspnoea, chronic cough and upper airway dysfunction**

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

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

**Chairs:** Olga Huivaniuk (Chernivtsi, Ukraine), Afroditi Boutou (Thessaloniki, Greece)

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**PA3136 Is chronic cough an additional marker for lung function decline?**
Hazim Abozid (Wien, Austria), Miranda Kirby, Sylvia Hartl, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Jean Bourbeau, Emiel F M Wouters, Wan Tan On Behalf Of The Cancold Collaborative Research Group And The Canadian Respiratory Research Network

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**PA3137 The evaluation of Exercise Induced Laryngeal Obstruction (EILO) performed by inexperienced physicians**
Petter Carlsen (Norway), Praveen Muralitharan, Maria Vollseter, Ida Jansrud Hammer, Thomas Halverson, Ola Drange Roksnund, Hege Sunnove Havstad Clemm

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**PA3138 Comparison of lung function among middle-aged and elderly asthma, chronic obstructive pulmonary disease and asthma-COPD overlap: A 4-year large sample single-center retrospective study**
Hui Gan (Guangzhou, China), Zheng Zhu, Yi Gao, Xinxin Yu, Xiangqin Hou, Baoqing Sun

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**PA3139 A putative link between pertussis and gastroesophageal reflux with high rates of pulmonary aspiration.**
Gregory Falk (Lindfield, Australia), Leticia Burton, Daminda Weerasinghe, Hans Van Der Wall

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**PA3140 Different clinical symptom patterns in patients with reflux micro-aspiration confirmed by new pulmonary aspiration scintigraphy technique.**
Gregory Falk (Lindfield, Australia), Oleksandr Khoma, Jin-Soo Park, Felix Lee, Hans Van Der Wall

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**PA3141 Investigating the Prevalence of Oesophageal Dysmotility in Patients with Refractory Chronic Cough**
Dominic Sykes (Hull, United Kingdom), Michael G Crooks, Simon P Hart, Warren Jackson, John Gallagher, Alyn H Morice

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**PA3142 Impact of breathlessness on quality of life and healthcare use in Australia**
Anthony Paulo Sunjaya (Sydney, Australia), Leanne Poulos, Gian Luca Di Tanna, Guy Marks, Helen Reddel, Christine Jenkins

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**PA3143 Laryngeal findings during exercise in Healthy Athletes**
Petter Carlsen (Norway), Praveen Muralitharan, Maria Vollseter, Mette Engan, Ida Jansrud Hammer, Thomas Halverson, Ola Drange Roksnund, Hege Sunnove Havstad Clemm

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**PA3144 Swallowing dysfunction and decreased appetite in patients with chronic respiratory disease.**
Ayumu Akiyama (Hamamatsu-shi, Japan), Shinichi Arizono, Yuichi Tawara, Yasuhiro Tsujimura, Tetsuo Hiramatsu

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**PA3145 Structural features in chronic cough assessed by computed tomography (CT)**
Hazim Abozid (Wien, Austria), Miranda Kirby, Sylvia Hartl, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto C Burghuber, Jean Bourbeau, Emiel F M Wouters, Wan Tan On Behalf Of The Cancold Collaborative Research Group And The Canadian Respiratory Research Network

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**PA3146 Obesity hypoventilation syndrome prevalence by stages of severity in obese population**
delphine delample (Castries, France), Rozita Lorblanches, Nicolas Molinari, Bouziane Benhalima, Elena Ciomaga, Frederic Sanguignol, Abdelkebir Sabil, Mathieu Despeaux

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**PA3147 Has the pandemic changed the test quality of the pulmonary function test laboratory?**
Dorina Rama Esendagli (Ankara, Turkey), Eylem Gul, Aylin Ozsancak, Sule Akcay, Gaye Ulubay

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**PA3148 Diaphragm ultrasound and respiratory functional test: a combined approach in amyotrophic lateral sclerosis**
Fausta Viccaro (Roma, Italy), Letizia D’Antoni, Antonella Sotgiu, Krisstopher Richard Flores, Ernesto Di Biase, Mariaelisabetta Cardini, Paolo Palange

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**PA3149 Validation of a small cough detector in the clinic**
Christian F. Clarenbach (Zürich, Switzerland), Manuel Kuhn, Elif Nalbant, Dario Kohlbrenner, Mitja Agle, Alexandra Arvji, Noriane Sievi, Erich W. Russi
## PA3151
### Seeing is believing: a paediatric 'Therapeutic and Dynamic Airway Assessment' (TaDAA) service
Kushalini Hillson (Great Kingshill, United Kingdom), Melanie Peck, Caroline Pao, Sarah Brown, Chinedu Nwokoro, Nara Oban, Surendran Thavagnanam

## PA3152
### Unexplained dyspnea by cardiopulmonary exercise test
Katiuska Herminia Liendo Martinez (Madrid, Spain), Walther Ivan Girón Matute, Julia Garcia De Pedro, Ji Zichen, Luis Puente Maestu, Paola Antonella Benedetti

## PA3153
### Barriers of use of patient-reported outcome measures (PROMs) in asthma and rhinitis care: preliminary insights from the multinational "PROMUSE" study
belen intrigario (Guayaquil, Ecuador), Ivan Cherrez-Ojeda, Jean Bousquet, Marcus Maurer, Torsten Zuberbier, German Dario Ramón, Désirée Larenas-Linnemann, Christopherson Caballero-López, M.A. Al-Nesf Al-Mansouri, Tayseer Mohmed Ibrahim, Sophia Neisinger, Daria Fomina, Anna Zalewska, Rabia Oztas, Florian Mihalitan, Alicia Kasperska-Zajac, Pavel Kolkh, Roberta F. Criado, Luis Felipe Ensina, Herberto Jose Chong Neto, Nelson Rosario, Ana Giménez-Arnau, David Pesqué, Carolina Crespo Shijin, Romina Hinostroza Logroño, Karla Robles-Velasco

## PA3154
### Comorbidities in patients with Obstructive Sleep Apnea syndrome (OSAS) in Reunion Island.
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan, Christian Kichenin, Asma Omarjee, Jean Francois Vellin

## PA3155
### Children's united airways clinic – evaluation & carer satisfaction of a UK Regional joint ENT-Respiratory clinic.
Matthew Hurley (Nottingham, United Kingdom), Isabelle Sheeran, Rachel Gregory, Rebecca Devaney, Mat Daniel

### Thematic poster: In vivo and in vitro studies of airway diseases

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<th>Disease(s)</th>
<th>Method(s)</th>
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<td>Airway diseases, Interstitial lung diseases, Respiratory critical care</td>
<td>Cell and molecular biology, Physiology, General respiratory patient care, Imaging</td>
<td>Lena Uller (Lund, Sweden), Andrew Higham (Manchester (Greater Manchester), United Kingdom)</td>
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#### PA3156
### Cysteinyl-maresin 3 inhibits IL-13 induced airway hyperreactivity through alternative activation of the CysLT1 receptor
Jesper Säfholm (Solna, Sweden), Willem Abma, Craig E. Wheelock, Sven-Erik Dahlén, Mikael Adner

#### PA3157
### Features of rhinovirus-induced exacerbation of HDM-challenged mice
Sofia Tillgren (Ramlsöa, Sweden), Samuel Cerps, Mandy Menzel, Irma Mahmutovic Persson, Juan José Nieto Fontarigo, Hamid Akbarshahi, Lena Uller

#### PA3158
### The anti-inflammatory and antifibrotic effects of a novel, pan-phosphodiesterase inhibitor in murine model of allergic asthma
Katarzyna Wójcik-Pszczoła (Krakow, Poland), Krzysztof Pociecha, Elżbieta Łyska, Grażyna Chłoń-Rzepa, Hanna Plutecka, Monika Zdroźna, Barbara Nowak, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pękala, Reinoud Gosens

#### PA3159
### Inhaled NXP002 attenuates LPS-induced inflammatory and fibrotic mediator production in the rat lung
Bob Humphries (Aachen, Germany), Mark Saunders, Simon Cruwys

#### PA3160
### Anti-fibrotic effect and in vivo target engagement of Nintedanib administered by oral gavage or by a medicated diet in a bleomycin lung fibrosis model in the rat
Marcello Trevisani (Parma, Italy), Paola Caruso, Vanessa Pitzetti, Silvia Pontis, Maria Gloria Pittelli, Martina Bonatti, Gino Villetti, Maurizio Civelli

#### PA3161
### The differential synergistic injurious effect of resistive breathing on pulmonary and extra-pulmonary lung injury
Dimitrios Tournapakis (Athens, Greece), Konstantinos Glykos, Vronia Vassilakopoulou, Athanasia Chatzinastasiou, Eleftheria Mizi, Maria Dettoraki, Fotis Perlikos, Christina Magkou, Andreas Papapetropoulos, Theodoros Vassilakopoulos

#### PA3162
### Sphingosine-1-phosphate signaling pathway drives female asthma susceptibility
Elisabetta Granato (Naples, Italy), Ida Cerqua, Rosalinda Sorrentino, Giusy Ferraro, Maria Francesca Nani, Antonietta Rossi, Giuseppe Cirino, Fiorentina Roviezzo

#### PA3163
### The role of PPAR-γ antagonism on losartan ameliorating effect on lung injury and systemic inflammation induced by LPS in mice
Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Vajiheh Rouki, Saeideh Saadat, Arghavan Memarzade, Mohammad Hosseini

#### PA3164
### A novel chronic guinea pig model of COPD using LPS and poly(I:C) exposure
Loes E. M. Kistemaker (Groningen, Netherlands), Margot De Looff, Vicky Verschut, Manon E. Woest, Iris C. Gorter, Kimberley S. Belfior, I. Sophie T. Bos, Marina H. De Jager, Reinoud Gosens, Gino Villetti, Fabrizio Facchinetti
Targeting the carboxypeptidase activity: a promising strategy for asthma treatment
Venkata Sita Rama Raju Allam (uppsala, Sweden), Sowsan Taha, Ida Waern, Francesc Xavier Avilés, Laurent Devel, Gunnar Pejler, Sara Wernersson

Extrafine triple therapy shows improved efficacy compared to ICS/LABA in a mouse model of asthma
Daniela Miglietta (Parma (PR), Italy), Anna Rita Pisano, Andrew Allen, Debora Fragni, Giuseppina Federico, Fabio Bignami, Enrico Zambelli, Riccardo Zecchi, Francesca Boscaro, Barbara Pioselli, Valentina Mileo, Maurizio Civilli, Gino Villetti

In vitro and ex-vivo evaluation of anti-inflammatory and anti-fibrotic effects of NXP002 in rat and human cells and lung tissue
Simon Cruwys (Aachen, Germany), Mark Saunders, Alastair Riddell, Bob Humphries

Association between dietary fibre, microbial metabolites and airway obstruction in COPD patients and murine models
Kurtis Budden (New Lambton Heights, Australia), Saima Firdous Rehman, Shakti Shukla, Kate Bowerman, Chantal Donovan, Henry Gomez, Charlotte Alemao, Lisa Wood, Paul Dennis, Phillip Hugenholtz, Peter Wark, Philip Hansbro

LPS-challenged equine bronchi: evidence for IL-6 as a target against AHR
Luigino Calzetta (Roma (RM), Italy), Elena Pistocchini, Giuseppe Cito, Beatrice Ludovica Ritondo, Stefano Verri, Paola Rogliani

Effect of a nutraceutical drug in COPD condition: A pilot study of in vitro, in vivo and Clinical Trial
Bijay Ranjan Pattnaik (NEW DELHI, India), Naveen Bhatraju, Seetu Kashyap, Umashankar Verma, Karan Madan, Randeep Guleria, Anurag Agrawal, Anant Mohan

Exogenous HSP70 regulates the expression of glucocorticoid receptor in a cell type-specific manner
Liang Zhou (Basel, Switzerland), Lei Fang, Michael Tamm, Michael Roth, Daiana Stolz

Lung inhalation-on-chip: A triple co-culture cellular platform to predict toxicity of aerosolized toxicants
Arunima Sengupta (Bern, Switzerland), Widad Hassan, Nuria Roldan, Janick Stock, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier. T Guenat

Phosphoinositide-3 kinase antagonism does not reverse steroid insensitivity in severe asthma
Anurag Bhalla (Toronto (ON), Canada), Kiho Son, Katherine Radford, Chynna Huang, Melanie Kjarsgaard, Manali Mukherjee, Parameswaran Nair

COPD pathogenesis is dependent on ferroptotic death of AT2 cells driven by pro-inflammatory Macrophages
Aicha Jeridi (München, Germany), Thomas M Conlon, Gizem Günes Günsel, Mariia Novikova, Sebastian Doll, Niklas J Lang, Stijn E. Verleden, Markus Rehberg, Tobias Stöger, Herbert B. Schiller, Marcus Conrad, Ali Önder Yildirim

Bronchorelaxant effect of beclometasone dipropionate in an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Josuel Ora, Francesco Facciolo, Enrico Melis

Thematic poster: Exhaled/blood biomarkers and lung function testing in chronic airway diseases
Session 381 08:30 - 09:30

Thematic poster: Exhaled/blood biomarkers and lung function testing in chronic airway diseases
Disease(s) : Airway diseases
Method(s) : General respiratory patient care Cell and molecular biology Physiology Pulmonary function testing Epidemiology
Chairs : Marc van der Schee (Cambridge, United Kingdom), Florence Schleich (Liège, Belgium)

An original computational framework offers new perspectives for exhaled nitric oxide
Cyril Karamaoun (Ixelles, Belgium), Benjamin Mauroy, Médiéric Argentina

Interval change in fractional exhaled nitric oxide (FENO) reflects short-term but not long-term change in adherence
Tunn Ren Tay (Singapore, Singapore), Xue Ning Choo, Yiong Huak Chan, Anthony Yii

Short term effect of cigarette smoke on exhaled volatile organic compounds profile analyzed by an eNose.
Silvano Dragonieri (Bari (BA), Italy), Enrico Buonamico, Agnese Caringella, Ruben Infanti, Pierluigi Intiglietta, Vincenzo Nicola Valerio, Marco Partuno, Luciana Labate, Giovanna Elisiana Carpagnano

Do particles in exhaled air samples differ between asthmatic and non-asthmatic adults?
Laura Healy (Manchester, United Kingdom), Fahad Al-Huda, Emma Barrett, Lisa Willmore, Rhys Tudge, Gina Kerry, Clare S Murray, Angela Simpson, Stephen Fowler
PA3180 FENO PREDICTS SHORT TERM RISK OF MODERATE/SEVERE COPD EXACERBATIONS
Ana Quesada Quesada (Granada, Spain), Gema Ramirez Rodríguez, Antonio Menéndez Lobo, Alejandro Romero Linares, Pedro J Romero Palacios, Bernardino Alcazar Navarrete

PA3182 Biomarkers of coagulative properties in patients admitted with AECOPD.
Peter Thobias Kamstrup, Jannie Marie Bülow Sand, Charlotte Ulrik, Julie Janner, Sarah Rank Rønnow, Diana Julie Leeming, Sidse Graff Jensen, Torgny Willeke, Marc Miravitlles, Alexander Mathioudakis, Therese Lapperee, Ruth Frikke-Schmidt, Daniel Murray, Theis Itenov, Apostolos Bossios, Susanne Dam, Jorgen Vestbo, Tor Biering-Sørensen, Morten Karsdal, Jens-Ulrik Stæhr Jensen, Pradeesh Sivapalan

PA3183 Forced oscillatory technique for diagnosis and monitoring of bronchiolitis obliterans syndrome following allogeneic stem cell transplantation
Rottem Kuint (Petach Tikva, Israel), Batia Avni, Sigal Grisariu, Eran Zimran, Polina Stepensky, Neville Berkman

PA3185 Detection of small airways disease by impulse oscillometry among smokers and non-smokers with normal spirometry.
KETAN MALU (Mumbai, India), Jai Mullerpattn, Ashok Mahashur

PA3186 Accuracy of impedance measurements of a novel handheld oscillometry device
Davide Bizzotto (Milano MI, Italy), Pasquale Pio Pompliao, Alessandro Gobbi, Raffaele Dellaca

PA3187 Sputum neutrophil counts in healthy subjects: relationship with age
Augusta Beech (Manchester, United Kingdom), Dave Singh

PA3188 Serum osteoprotegerin (OPG) and osteopontin (OPN) in patients with COPD during two-year follow-up study
Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Yanitsa Zhelyazkova, Tatiana Vlaykova

PA3189 Impulse Oscillometry is a reproducible assessment of airway resistance and reactance in well-controlled asthmatics and healthy controls
Lene Moelgaard Pedersen (Aarhus, Denmark), Helle Haagensen Andersen, M Mousa, N Mousa, Anne Sofie Bjerrum, Tina Skjold, Torben Smidt-Hanssen, Hans Jürgen Hoffmann, Johannes Schmidt

PA3190 The Importance of Immature Platelet Fraction in Stable and Exacerbation Periods in COPD and its Relationship with Systemic Inflammation
Fatma Çiftci (Ankara, Turkey), Nasser Elmi Abiseh, Aslıhan Gürün Kaya, Miraç Öz, Özlem Doğan, Serhat Erol, Aydın Çiledağ, Akın Kaya

PA3191 Randomised, double-blind, placebo-controlled study to assess long-term effect of dupilumab on prevention of lung function decline (LFD) in patients with uncontrolled moderate-to-severe asthma: ATLAS trial
Ian Douglas Pavord (Oxford, United Kingdom), Lucia De Prado Gomez, William Busse, Christopher E Brightling, Michael E Wechsler, Klaus F Rabe, Mei Zhang, Jun Xing, Juby A Jacob-Nara, Paul J Rowe

PA3192 Diagnosis and management of Eosinophilic Granulomatosis With Polyangiitis: Perspective from the Severe Asthma Clinic
Youxin Puan (Singapore, Singapore), Pei Yee Tiew, Kheng Yong Ong, Mariko Siyue Koh

PA3193 Association between nasal polyposis and T2 airway inflammation in severe asthma
Zsofia Vastag (timisoara, Romania), Emanuela Tudorache, Noemi Suppini, Cristian Oancea, Ovidiu Fira-Mladinescu

PA3194 Bronchoconstriction status affects FENO values in asthma patients
Maud Akset (Forest, Belgium), Alain Van Myvelm, Amaryllis Haccouria, Silvia Perez Bogerd, Andrei Malinovschi, Alain Michils

PA3195 A tool to facilitate spirometry quality control assessment using 2019 standards
Marko Topalovic (Kessel-lo, Belgium), Brian Graham, Sanja Stanojevic, Massimo Corradi, Eva Topole, Sonia Biondoro, Isabella Montagna, Sandrine Corre, Nilakash Das

TP-12 in thematic poster area Session 382 08:30 - 09:30

Thematic poster: Update on clinical trials in allergy, asthma and COPD

Disease(s): Airway diseases, Interstitial lung diseases

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

Chairs: Celeste Michala Porsbjerg (Copenhagen, Denmark), Sergio Dortas Junior (Rio De Janeiro (RJ), Brazil)

PA3196 Onset, Maintenance, and Durability of Response with Dupilumab in Chronic Rhinosinusitis with Nasal Polyps
Philippe Gevaert (Ghent, Belgium), Claus Bachert, Asif Khan, Wytske Fokkens, Claire Hopkins, Joseph Han, Peter Hellings, Stella Lee, Jerôme Mshid, Scott Nash, Shahid Siddiqui, Juby Jacob-Nara, Yamo Deniz, Paul Rowe
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<td>PA3198</td>
<td>Itepokimab significantly reduced hospitalizations or emergency department visits in former smokers with moderate-to-severe COPD</td>
<td>Klaus F. Rabe (Kiel, Germany), Bartolome R. Celli, Amy Praestgaard, Michel Djiandji, Xavier Soler, Raolat M. Abdulai, David J. Lederer, Hélène Goulaouic, Michael C. Nivens, Shahid Siddiqui, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe</td>
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<td>PA3199</td>
<td>Impact of obstructive airway diseases (OADs) treatments on adult diphtheria-tetanus-pertussis vaccine (dTAp)’s immunogenicity and safety</td>
<td>Peter Van den Steen (Wavre, Belgium), Valérie Berlaimont, Brigitte Cheuvart, Quentin Deraedt, Laura Valdes Verelst</td>
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<td>PA3200</td>
<td>Salivary immunoglobulin E levels in patients treated with Omalizumab</td>
<td>Diana Hristova (Sofia, Bulgaria), Radoslava Emilova, Yana Todorova, Milena Aleksova, Maria Nikolova</td>
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<td>PA3201</td>
<td>Population PK/PD modelling of the anti-IL-33 antibody tozorakimab to predict pulmonary target engagement in patients with COPD</td>
<td>Muhammad Waqas Sadiq (Mölndal, Sweden), Hongtai Yu, Magnus Astrand, Ian C Scott, Adam Williams, Lisa Hewitt, Nick White, Helen Killick, Monica Gavala, Fred Reid, Chris Kell, Hitesh Pandya, Eulalia Jimenez</td>
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<td>PA3202</td>
<td>The long-term effectiveness of allergy immunotherapy in subjects with asthma is associated with a lower prevalence of sleep disturbances. Results from the REACT-study</td>
<td>Marco Contoli (Ferrara (FE), Italy), Benedikt Fritzsching, Nick Freemantle, Sarah Buchs, Julie Larsen, Celeste Porsbjerg</td>
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<td>PA3203</td>
<td>Allergy immunotherapy is associated with a reduced risk of asthma severity progression and lower airway infections. Results from the REACT-study</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark), Benedikt Fritzsching, Nick Freemantle, Sarah Buchs, Julie Larsen, Marco Contoli</td>
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<td>PA3204</td>
<td>Humoral immune responses to COVID-19 vaccines are reduced in patients with severe asthma</td>
<td>Hitasha Rupani (Southampton, United Kingdom), Diane Edwards, Rekha Chaudhuri, Steven Smith, David Jackson, Andrew Hearn, Jennifer Richards, Helen Moyzes, Michael Edwards, Sebastian Johnston, Ramesh Kurukularaearthchy, Hans Michael Haitechi, Ratko Djuhanovic</td>
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<td>PA3205</td>
<td>Efficacy of medical face masks on birch-induced asthma in ALYATEC EEC</td>
<td>Alina Gherasim (Strasbourg, France), Marine Beck, Frank Dietsch, Maude Meyer, Thibaut Riff, Nathalie Domis, Frédéric De Blay</td>
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<td>PA3206</td>
<td>Evaluation of asthma responses in ALYATEC EEC in birch allergic rhinitis (AR) with and without asthma</td>
<td>Alina Gherasim (Strasbourg, France), Frank Dietsch, Marine Beck, Thibaut Riff, Nathalie Domis, Frédéric De Blay</td>
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<td>PA3208</td>
<td>Efficacy and safety of Phlai capsule for allergic rhinitis: a randomized, double-blind, placebo-controlled study</td>
<td>Minh P. Hoang (Bangkok, Thailand), Rachorn Seresirkachorn, Steven Smith, Esada Kanjanamorn, Songkot Anumjaturapat, Supinda Chusakul, Jompol Samuthpongorn, Wirach Chitsuthipakorn, Pornthep Kasemsiri, Virat Kirtsreesakul, Kajohnkiat Prasittivatechakool, Pongsakorn Tantlipikorn, Orapan Poachanuoon, Kornkiat Snidvongs</td>
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<td>PA3209</td>
<td>Effect of dupilumab on asthma control and asthma-related quality of life in patients with uncontrolled, moderate-to-severe type 2 asthma: TRAVERSE OLE study</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), William Busse, Jonathan Corren, Andrew Menzies-Gow, Enrico Heffler, Jerome Mshidh, Shahid Siddiqui, David J. Lederer, Megan Hardin, Yi Zhang, Asif H. Khan, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe</td>
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<td>PA3210</td>
<td>Biomarkers associated with lung function decline and dupilumab response in patients with moderate-to-severe asthma</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Guy Brusselle, Daniel J. Jackson, Christopher E. Brightling, Alberto Papi, Jorge F. Maspero, Klaus F. Rabe, Stephanie Korn, Mei Zhang, Nami Pandit-Abid, Megan Hardin, Lucia De Prado Gómez, Juby A. Jacob-Nara, Paul J. Rowe</td>
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<td>PA3211</td>
<td>Insilico study of COVID-19 ORF1ab protein allergenicity</td>
<td>Fatemeh Hajighasemi (Tehran, Islamic Republic of Iran), Atefeh Shirkavand</td>
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<td>PA3212</td>
<td>Dupilumab reduces OCS use and improves lung function in patients with severe OCS-dependent asthma</td>
<td>Christian Domingo Ribas (Sabadell (Barcelona), Spain), Mark Gurnell, Klaus F Rabe, Andrew Menzies-Gow, David Price, Guy Brusselle, Micheal E Wechsler, Changmng Xia, Nami Pandit-Abid, Rebecca Gall, Juby A Jacob-Nara, Paul J Rowe, Yamo Deniz, Shahid Siddiqui</td>
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PA3214 Multidisciplinary checklist approach for the "severe" phenotype: Asthma with Nasal Polyps
Jose Antonio Castillo Vizuete (Sitges (Barcelona), Spain), Miguel Armengot, Julio Delgado, Maria Gil, Carlos Colás, Inmaculada Plasencia, Carolina Cisneros

PA3215 One-year treatment with benralizumab in patients with eosinophilic granulomatosis with polyangiitis
Paola Scarano (Roma, Italy), Cecilia Cisternino, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Alessia Steffanina, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani

TP-13 in thematic poster area

Thematic poster: Determinants, diagnosis and management of lung diseases in adults

Disease(s): Airway diseases, Pulmonary vascular diseases
Method(s): Public health, Pulmonary rehabilitation, Epidemiology, Physiology

Chairs: Sigrid Anna Vikjord (Levanger, Norway), Om Prakash Kurmi (Coventry, United Kingdom)

PA3216 Air pollution exposure and prevalence of chronic respiratory diseases in Italy
Alessandro Marcon (Verona (VR), Italy), Jessica Miotti, Pierpaolo Marchetti, Francesca Locatelli, Leonardo Antonicelli, Sandra Baldacci, Salvatore Battaglia, Roberto Bono, Angelo Corsico, Claudio Gariazzo, Sara Maio, Nicola Murgia, Pietro Pirina, Massimo Stafoggia, Lorena Torroni, Giovanni Viegi, Giuseppe Verlato

PA3217 Epidemiology of COVID-19 in the Kingdom of Saudi Arabia: An Ecological Study
Mohammad Hussain Alyami (Najran, Saudi Arabia), Abdullah Naser, Hamad Alyami, Hasan Alwafi, Mohammed Orabi

PA3218 Tobacco use and its associated factors among undergraduate public health students in Kathmandu valley, Nepal
Sandesh Bhusal (Kathmandu, Nepal), Birendra Chand, Kiran Paudel, Tara Ballav Adhikari, Pranil Man Singh Pradhan, Suman Man Shrestha

PA3219 Smoking and COPD – an exploratory overview in Brazil considering the prevalence of smoking, access to smoking cessation treatment, hospital admission and mortality from COPD. 2018 to 2020
Rafael Stelmach (São Paulo (SP), Brazil), Telma Cassia Santos Nery, Setella Regina Martins, Naiara Santos Bispo

PA3220 Risk factors for breakthrough COVID-19 in 15,804 UK adults after primary and booster doses of SARS-CoV-2 vaccines
Giulia Vivaldi (Romford, United Kingdom), David A. Jolliffe, Hayley Holt, Mohammad Talaei, Florence Tydeman, Seif O. Shaheen, Adrian R. Martineau

PA3221 Associations of low level air pollution and greenness with mortality in men and women. The Life-GAP project
Shanshan Xu (Bergen, Norway), Alessandro Marcon, Randi Jacobsen Bertelsen, Brynds Benediktsdottir, Camilla Geels, Thorarinn Gislason, Joachim Heinrich, Mathias Holm, Christi Janson, Rain Jogi, Iana Markevych, Hans Ohr, Anna Oudin, Lise Marie Frohn, Vivi Schlünsen, Torben Sigsgaard, Ane Johanness

PA3222 Effects of Air Pollution in São Paulo on Asthma and COPD symptoms
Francine Maria Almeida (São Paulo (SP), Brazil), Tiana Carla Lopes Moreira, Lucas Miranda Oliveira, Renato Fraga Righetti, Fernanda D. T. Q. Santos Lopes, Airiane P. Alencar, Thais Maud, Nelson Cruz Gouveia, Paulo Andrade Lotufo, Isabela Bensonor, Itamar Souza Santos, Isolanda Fátima L. C. Tibério

PA3223 Prognostic factors for COPD outcome - a nationwide cohort study
Anne Orholm Nielsen (Roskilde, Denmark), Ole Hilberg, Rikke Ibsen, Anders Lokke

PA3224 Lifestyle Changes and Exacerbation Frequency of COPD in Times of the Pandemic
Seda Tural Onur (Istanbul, Turkey), Fatma Tokgöz Akyil, Sinem Sökücü, Hülya Abali, Elif Çayirli, Neslihan Boyraci, Sedat Altin

PA3225 RELATIONSHIP BETWEEN EARLY MENARCHE AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN
Karina Hunter, Ingrid Guerra Azevedo, Viviana Perez, Mayra Quintana, Catherine Llancaleo, Kimberly Gavilán, Cristiano Gomes, Maria Do Socorro Luna Cruz, Saionara Maria Aires Cámara

PA3226 The risk factors for tuberculosis in patients with psychic pathologies
Tatiana Osipov (Chisinau, Republic of Moldova), Evelina Lesnic, Eugeniu Cotelea, Alina Malic

PA3227 Determinants of pre-vaccination SARS-CoV-2 seropositivity: a population-based longitudinal study (COVIDENCE UK)
Mohammad Talaei Pushiri (London, United Kingdom), Sian Faustini, Hayley Holt, David A. Jolliffe, Giulia Vivaldi, Alex G Richter, Seif O Shaheen, Adrian R Martineau
PA3228
RELATIONSHIP BETWEEN MATERNAL AGE OF FIRST BIRTH AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN
Ingrid Guerra Azevedo, Karina Hunter, Saisonara Maria Aires Câmara, Mayra Quintana, Kimberly Gavilán, Catherine Lilancaelo, Maria Do Socorro Luna Cruz, Alvaro Campos Cavalcanti Maciel

PA3229
Is the oral microbiota representative for the healthy bronchial microbiota?
Solveig Tangedal (Bergen, Norway), Rune Nielsen, Marianne Aanerud, Harald Wiker, Christine Drengenius, Gunnar Husebo, Kristel Knutsen, Sverre Lehmann, Tomas Eagan

PA3230
Longitudinal association between healthy diet and change in asthma symptom in elderly women
Wassila Ait-hadad (Paris Cedex 13, France), Annabelle Bédard, Sebastien Chanoine, Orianne Dumas, Nasser Laouali, Nicole Lemoual, Benédicte Leynaert, Conor Macdonald, Valerie Siroux, Marie-Christine Bouton-Ruault, Rapahelle Varrao

PA3231
Predictors of electronic cigarette use and its association with respiratory health and obesity in young adulthood in Sweden
Shanzan Sompa (Huddinge, Stockholm, Sweden), Anna Zettergren, Sandra Ekström, Swapna Upadhyay, Koustaw Ganguly, Antonios Georgelis, Petter Ljungman, Göran Pershagen, Inger Kull, Erik Melén, Lena Palmberg, Anna Bergström

PA3232
Inhaled Corticosteroids as a Risk Factor for Hospitalisation with Pneumonia in COPD Patients
Christian Philip Ronn (København Ø, Denmark), Pradeesh Sivapalan, Josefín Eklöf, Charlotte Suppli Ulrik, Jens-Ulrik Stehr Jensen

PA3233
What are the Direct and Indirect costs of COPD in India?
Sapna Madas (Pune (Maharashtra), India), Jyoti Londhe, Kirti Mudliar, Kritika Prawer, Nagesh Dhage, Sanjay Gaikwad, Mahavir Modi, Balasheeb Pawar, Medha Bargaje, Gauri Godbole, Parag Khatakar, Yogesh Agrawal, Himanshu Pophale, Yuvaraj Badhe, Sahebrao Toke, Sundep Salvi

PA3234
Psychiatric side-effects of montelukast – a nationwide cohort study of 159 916 patients.
Alexander Jordan (Copenhagen N, Denmark), Louise Lindhardt Tonnesen, Josefín Eklöf, Pradeesh Sivapalan, Howraman Meteran, Charlotte Suppli Ulrik, Klaus Bonnelykke, Jens-Ulrik Stehr Jensen

PA3235
Assessment of causal relationships between eosinophils and respiratory disease using Mendelian randomization
Martin D Tobin (Leicester, United Kingdom), Catherine John, Anna L Guyatt, Alexander T Williams, Nick Shrite, Nicola F Reeve, Ian Sayers, Ian P Hall, Louise V Wain, Nuala A Sheehan, Frank Dudbridge

TP-14 in thematic poster area Session 384 08:30 - 09:30
Thematic poster: Occupational respiratory infections

Disease(s) : Interstitial lung diseases, Airway diseases
Method(s) : Public health, General respiratory patient care, Epidemiology, Cell and molecular biology, Imaging
Chairs : Kurt Straif (St. Foy-les-Lyon, France), Sara De Matteis (Cagliari, Italy)

PA3236
Comparison of humoral immune responses to initial and booster SARS-CoV-2 vaccination among respiratory health professionals
Imre Barta (Budapest, Hungary), Viktória Schmidt, Imola Mán, Mártà Valyon, Lilla Lőrinczi, Balázs Antus

PA3237
Severity of SARS-CoV-2 pneumonia according to occupational exposure to asbestos
Galo David Granados Rosales (Barcelona, Spain), María Sáez López, Cristina Aljama Vizcarra, Julia Sampol Sirvent, María Jesús Cruz Carmona, Jaume Ferrer Sancho

PA3238
Pandemic Covid-19 and the risk of burnout among health personnel at Hassan II Hospital in Agadir, Morocco.
Fatih Bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhan

PA3239
COVID-19 disease prevalence and its characteristics among health care workers of specialized respiratory clinics in Germany one year after the start of vaccination campaign

PA3240
Risk factors for pandemic-related workplace absenteeism among health care workers and the impact of vaccination
Stella Piel (Bonn, Germany), Maria Ada Presotto, Rudolf A. Jöres, Stefan Karrasch, Wolfgang Gesierich, Jörn Bullwinkel, Klaus F. Rabe, Markus Hayden, Franziska Kaestner, Dominik Harzheim, Biljana Joves, Axel Tobias Kempa, Alessandro Ghiani, Claus Neurohr, Michael Kreuter, Felix J.F. Herth, Franziska Christina Trudzinski

PA3241
Profile of healthcare workers who contracted COVID-19 after vaccination against SARS-CoV-2
Ons Grissa (Tunis, Tunisia), Nihel Khouja, Emma Baraketi, Jihen Hsinei, Saloua Ismael, Nawres Gannoun, Aida Benzarti, Abdelmajid Ben Jemaa
PA3242  Respiratory symptomatology of Covid-19 in healthcare workers
Ons Grissa (Tunis, Tunisia), Amani Dallagi, Saloua Ismail, Jihen Hsinet, Emna Baraketi, Nihel Khouja, Aida Benzarti, Abdelmajid Ben Jemaa

PA3243  Investigation of cellular and humoral immune responses following COVID-19 vaccination in respiratory healthcare professionals
Viktoria Schmidt (Budapest, Hungary), Imola Man, Balazs Antus, Imre Barta, Marta Valyon, Lilla Lorinezi

PA3244  Mental health, quality of life, and COVID-19 fear in Turkish healthcare workers practicing in pandemic hospitals

PA3245  Late Breaking Abstract - Environmental nanoparticle exposure triggers gammaherpesvirus reactivation via the MAPK signaling pathway in macrophages
Lianyong Han (Munich, Germany), Verena Haefner, David Kutschke, Beatrix Steer, Anna Fuchs, Martin Irmler, Johannes Beckers, Annette Feuchtinger, Margit Heier, Annette Peters, Heiko Adler, Tobias Stoeger

PA3246  Late Breaking Abstract - Carbon footprint of maintenance and reliever therapy (MART) versus maintenance plus SABA (Mx+SABA) regimens for asthma: Results from the healthCARE-Based envirONmental cost of treatment (CARBON) programme
John Bell (Cambridge, United Kingdom), Ekaterina Maslova, Paul Miller, Alex Wilkinson, Christer Janson, Richard Beasley, Michael Crooks

PA3247  Late Breaking Abstract - Carbon nanoparticle-triggered virus reactivation as a link between the inflammatory response to air pollutants and chronic lung disease
Verena Haefner (Neuherberg, Germany), Lianyong Han, David Kutschke, Beatrix Steer, Ali Oender Yildirim, Heiko Adler, Tobias Stoeger

PA3248  Late Breaking Abstract - TRP and TLR receptors modulate airway responses to diesel exhaust and allergen co-exposure in sensitized participants
Chris Carlsten (Vancouver, Canada), Ryan D. Huff, Andrew Robinson, Min Hyung Ryu

PA3249  Late Breaking Abstract - Evaluation and Prediction of COVID-19 Case Fatality Rates from 156 countries
Yikang Wang (London, United Kingdom), Cui Zhou, Asa Wheelock, Chutian Zhang, Wannian Liang, Jing Gao, Lei Xu

PA3250  Late Breaking Abstract - Dwelling visible mould exposure increased asthma symptom score in the CONSTANCES cohort
Tajidine TSIAVIA (Villejuif, France), Emilie Frealle, Valérie Bex, Orianne Dumas, Marcel Goldberg, Nicole Le Moual, Celine Ribet, Nicolas Roche, Marine Savouré, Raphaëlle Varraso, Marine Zins, Bénédicte Leynaert, Laurent Orsi*, Rachel Nadif*

PA3251  Late Breaking Abstract - Association of COPD exacerbations with cardiovascular events – a population-based cohort study
Anders Lokke (Hojbjerg, Denmark), Peter Lange, Rikke Ibsen, Gunilla Telg, Jesper Lykkegaard, Ole Hilberg

PA3252  Late Breaking Abstract - ¿HAS MORTALITY FROM COPD DECREASED IN SPAIN IN THE LAST TWO DECADES?
Gema Ramirez Rodriguez (Granada, Spain), Ana Quesada Quesada, Antonio Menendez Lobo, Alejandro Romero Linares, Cristian Rodriguez Rivas, Pedro Romero Palacios, Bernardino Alcazar Navarrete

PA3253  Late Breaking Abstract - Body mass index associated with lowest mortality in patients with chronic obstructive pulmonary disease.
Sigrid Anna Vikjord (Levanger, Norway), Arnulf Langhammer, Lowie Vanfleteren

PA3254  Late Breaking Abstract - Lung function decline in chronic kidney disease
CHI YOUNG KIM (Seoul, Republic of Korea), You Na Kim, Beong Ki Kim

PA3255  Late Breaking Abstract - The impact on future risk of one moderate COPD exacerbation in GOLD A patients – a cohort study
Anders Lokke (Hojbjerg, Denmark), Ole Hilberg, Peter Lange, Rikke Ibsen, Per Bakke, Lene Maria Orts

TP-15 in thematic poster area  Session 385  08:30 - 09:30
Thematic poster: Paediatric asthma management
Disease(s) : Airway diseases  Respiratory critical care
Method(s) : General respiratory patient care  Public health  Cell and molecular biology  Epidemiology  Pulmonary function testing
Chairs : Antje T. Schuster (Düsseldorf, Germany), Vladyslava Kachkovska (Sumy, Ukraine)

**PA3256**
**Late Breaking Abstract - Classifying asthma control using salivary and fecal microbiome in children with moderate to severe asthma: results from the SysPharmPediA study**

**PA3257**
**Late Breaking Abstract - Longitudinal data-driven definition of clinical asthma phenotypes in the pediatric arm of the ALLIANCE cohort**
Alexander J. Hose (München, Germany), Erika Von Mutius, Klaus F. Rabe, Gesine Hansen, Matthias V. Kopp, Markus J. Ege

**PA3258**
**Practice pattern survey for paediatric asthma in Nepal (SPAN)**
Raju Prasad Pangeni (Kathmandu, Nepal), Amrit Ghimire, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay

**PA3259**
**Management of Severe Asthma in Pediatric Patients by an Interdisciplinary Team in a Public Hospital Setting.**
Alvaro Teijeiro (Córdoba, Argentina), Ruben Veyra, Analia Arteaga, Maximiliano Ermoli, Carolina Bustos, Franco Soria, Anahi Yañez

**PA3260**
**Interactive tablet application for self-report of asthma symptoms and impacts in children**
Florian S. Gutzwiller (Basel, Switzerland), Jessica Marcel, Oskar Göransson, Marci Clark, Carla Roman, Oyebimpe Olayinka-Amoo, Diane Whalley, Rebecca Crawford, Caterina Brindicci, Kristin Garg, Kattayoun Kordy, Francois Everhard, Francesco Patalano, Zach Roesler, Ross Llandres, Christel Naujoks

**PA3261**
**A feasibility study of a school-based asthma programme in Malaysia conducted during COVID-19 pandemic**
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Siti Nurkamilla Ramdzan, Ee Ming Khoo, Su May Liew†, Steve Cunningham, Ee Ming Khoo

**PA3262**
**TRial to Assess Implementation of New research in a primary care Setting (TRAINS): a pragmatic cluster randomised controlled trial of an educational intervention to promote asthma prescription uptake in General Practitioner Practices**
Rami Alyami (Sheffield, United Kingdom)

**PA3263**
**An international survey to establish prioritised outcomes of oral corticosteroids treatment for preschool wheeze**
Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Damian Roland, Steff Lewis, Steve Cunningham

**PA3264**
**Childhood asthma monitoring frequency and duration**
Alexander Mathioudakis (Stockport, United Kingdom), Nikolaos Papadopoulos, Adnan Custovic, Antoine Deschildre, Wanda Phipatanakul, Gary Wong, Paraskei Xepapadaki, . For The Pearl Group

**PA3265**
**Advanced in-vitro test setup for valved holding chambers with pediatric facemasks**
Andrea Winzen (Gräfelfing, Germany), Eva-Maria Popp, Karin Steinfuehrer, Rosina Ledermueller

**PA3266**
**Study Of The Correlation Between rs242941 polymorphism in CRHR1 Gene With The Responsiveness of Inhaled Corticosteroid Therapy in Children with Asthma**
Sy Duong-Quy (Dalat, Vietnam), Hanh Nguyen-Bich, Le Nguyen-Ngo-Quynh, Huang Le-Thi-Minh, Sy Duong-Quy

**PA3267**
**Differentiation of severe versus mild/moderate asthma in children, using a new pilot registry**
Alexander Mathioudakis (Stockport, United Kingdom), Eleni Statha, Paraskevi Xepapadaki, Alexandra Kothra, Sophia Botskariova, Maria Kritikou, Celine Goh, David Price, Nikos Papadopoulos

**PA3268**
**Medication use in uncontrolled pediatric asthma: results from the syspharmmedia study**
Amir Hossein Alizadeh Bahmani (Amsterdam, Netherlands), Elise M.A. Slōb, Anne H. Neerincx, Susanne J.H. Vijverberg, Simone Hashimoto, Mahmoud I. Abdel-Aziz, Mario Gorenjak, Catarina Almqvist, Anna Hedman, Olaia Sardón Prado, Paula Corcueria, Javier Korta, Maria Pino-Yanes, Uroš Potočnik, Christine Wolff, Susanne Brandstetter, Susanne Harner, Michael Kabesch, Aletta D. Kraneveld, Marielle W. Pijnenburg, Gerard H. Koppelman, Anke H. Maitland-Van Der Zee

**PA3269**
**Impact of asthma on the quality of life of asthmatic children: prospective study of 126 cases**
Nadia MEBROUK (Rabat, Morocco), Naima El Hafidi, Fadoua Benbrahim, Soumia Benchekroun, Chafiq Mahraoui

**PA3270**
**Efficacy of oral corticosteroids in treating preschool wheeze: A systematic review and meta-analysis**
Bohee Lee (Edinburgh, United Kingdom), Jonathan Twynam-Perkins, Steve Turner, Steff Lewis, Steve Cunningham

**PA3271**
**The interest of magnesium sulfate nebulization in asthma exacerbation**
Nadia MEBROUK (Rabat, Morocco), Naima El Hafidi, Fadoua Benbrahim, Chafiq Mahraoui
PA3272  Secondary adrenal insufficiency with long-term inhaled corticosteroids therapy in asthmatic children
Lekshmi Sambhu Hema (Trivandrum, India), Prawin Kumar, Jagdish Goyal, Varuna Vyas, Kuldeep Singh

PA3273  Implement of long-term usage of inhaled corticosteroids on physical development of children with bronchial asthma
Yevehniya Ortemenka (Chernivtci, Ukraine)

PA3274  Does Omalizumab lead to sustained improvement in Asthma Control?
Elizabeth Gregson (Harrogate, United Kingdom), Angela Tang, Sarah Brookman, James Tarr, Aziz Amin, Anil Shenoy, Sonal Kansra, Clare Murray, Atul Gupta

PA3275  How pediatrician manage asthma in tertiary care hospitals of Multan, Pakistan- A cross sectional study.
Ghulam Mustafà (Riyadh, Saudi Arabia)

TP-16 in thematic poster  Session 386  08:30 - 09:30

Thematic poster: Respiratory care in neonatal and paediatric intensive care units

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

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

Chairs: Anna Lavizzari (Milano (MI), Italy), Emanuela Zannin (Milano (MI), Italy)

PA3276  Bedside lung function monitoring in preterm infants by oscillatory mechanics and lung ultrasound
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Cattaneo Federico, Abedulrhman Abdelfattah, Maria Luisa Ventura

PA3277  Non-invasive low-frequency oscillatory mechanics in newborn infants
Sotrios Fouzas (Patras, Greece), Panorama - Maria Iliopoulou, Gabriel Dimitriou

PA3278  Telomere length in preterm-born children with bronchopulmonary dysplasia (BPD)
Ella Kotecha (Cardiff, United Kingdom), Lei Zhang, Ali Aboklaish, Michael Cousins, Kylie Hart, Sarah Kotecha, W John Watkins, Sailesh Kotecha

PA3279  Azithromycin resistance in the stool of preterm infants at risk of chronic lung disease of prematurity (CLD)
Chris Course (Cardiff, United Kingdom), David Gallacher, Ali Aboklaish, Lei Zhang, Julian Marchesi, Sailesh Kotecha

PA3280  Lung clearance index using a novel washout device is elevated in premature infants
Claire Nissenbaum (Manchester, United Kingdom), Anna Shawcross, Catherine Fullwood, Ajit Mahaveer, Clare S Murray, Alexander Horsley

PA3281  Oscillometry and mean airway pressure (MAP) titration in extremely preterm infants
Beatrice Bonomi (Milan, Italy), Tobias Werther, Chiara Veneroni, Erik Kueng, Raffaele Dellacà

PA3282  Non-invasive Neurally Adjust Ventilatory Assist (NIV-NAVA) versus Nasal Intermittent Positive Ventilation (NIPPV) at equivalent Peak Inspiratory Pressure (PIP) in preterm infants: a randomized cross-over trial.
Anna Lavizzari (Milano (MI), Italy), Chiara Veneroni, Nicole Siriani, Beatrice Bonomi, Chakib Boudjellal, Mariarosa Colnaghi, Fabio Mosca, Raffaele L Dellacà

PA3283  Estimation of the alveolar surface area using functional morphometry in extremely preterm infants
Emma Williams (London, United Kingdom), Mahesh Nanjundappa, Grace Okoye, Raghu Subba-Rao, Anne Greenough, Theodore Dassios

PA3284  National survey of closed-loop automated oxygen control systems in neonatal intensive care units.
Ourania Kaltsogianni (London, United Kingdom), Theodore Dassios, Rayhan Belbal, Anne Greenough

PA3285  Response to added deadspace in infants exposed to second-hand smoke in pregnancy
Ourania Kaltsogianni (London, United Kingdom), Nadja Bednarczuk, Emma Williams, Rebecca Lee, Ravindra Bhat, Theodore Dassios, Anne Greenough

PA3286  Lung biopsy in neonates needing extracorporeal membrane oxygenation for undiagnosed recalcitrant pulmonary hypertension: survey of current practice
John King (London, United Kingdom), Maura O'Callaghan, Timothy Thruchelvam, Ajay Desai, Andrew Bush, Samatha Sonnappa

PA3287  Use it or lose it! A multidisciplinary protocol for early speaking valve use in children with tracheostomy
Sammy Reed (London, United Kingdom), Brenda Carty, Suren Thavagnanam, Muna Dahabreh, Nara Orban, Tincy Abraham, Emma Bould, Sarah Brown, Caroline Pao, Chinedu Nwokoro, Tash Roberts
Effect of skin-to-skin contact (SSC) on respiratory parameters in premature infants with bronchopulmonary dysplasia (BPD)

Ana Serrano-Llop (LONDON, United Kingdom), Laura De-Rooy, Peter Cornuaud, Donovan Duffy, Anay Kulkarni, Sandeep Shetty

PA3289

Early Mobilization Program in a Pediatric Intensive Care Unit


PA3290

Pulmonary complications after liver transplantation in children

Gizem Özcan (Ankara, Turkey), Ceyda Tuna Kırşağıloğlu, Fazilcan Zirek, Merve Nur Tekin, Hasan Ozen, Tanil Kendirli, Meltem Kologlu, Zartif Kılığlu, Nazan Cobanoglu

PA3291

The influence of sex on the outcomes of premature infants receiving postnatal corticosteroids

Ourania Kaltsogianni (London, United Kingdom), Rebecca Lee, Emily Kostina, Christopher Harris, Theodore Dassios, Anne Greenough

PA3293

Late Breaking Abstract - Effect of cannula size on oxygen saturation during nasal high flow therapy in newborns

Pavel Mazmanyan (Yerevan, Armenia), Ella Mirzoyan, Maximilian Pinkham, Stanislav Tatkov

PA3294

Late Breaking Abstract - COVID-19 in patients diagnosed with persistent tachypnea of infancy

Honorata Mareczak (Warszawa, Poland), Katarzyna Krenke, Joanna Lange, Stanisław Bogułowski

TP-17 in thematic poster Session 387

Thematic poster: Fantastic beasts: where to find them and how to treat

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

Method(s): Transplantation, Cell and molecular biology, General respiratory patient care, Endoscopy and interventional pulmonology, Epidemiology, Public health, Respiratory intensive care, Surgery, Pulmonary function testing

Points to consider:

- Serological response following second and third SARS-CoV-2 vaccines in lung transplant recipients
  - By Enikő Bárczi (Budapest, Hungary), Viktória Varga, Alexandra Nagy, Noemi Eszes, Zsuzsanna Jáky-Kováts, Veronika Müller, Aniko Bohacs

- Covid-19 in lung allograft recipients - better outcomes after vaccination?
  - By Mário Alexandre Oliveira Pinto (Amadora, Portugal), João Rodrigues, Ana Sofia Santos, Luisa Semedo

- Sotrovimab: a new therapeutic option in lung transplant
  - By Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Silvia Aguado Ibáñez, Marta Erro Iribarren, Guillermo Padín Pico, Adriana Carolina Amaral Corgo, Brais Baamonde Veiga, Marta Lopez Pando, Sonia Salinas Castillo, Myriam Aguilar Pérez, Rosalía Laporta Hernández, Piedad Ussetti Gil, Beatriz Jara Chinarro

- Can SARS-CoV2 infection drive in an acute rejection in lung transplant recipients?
  - By Thais Beauperthuy Levy (Valencia, Spain), Maria Nieves Balaguer Cartagena, Desamparados Pastor, Juan Pablo Reig Mezquida, Laura Feced, Gabriel Anguera De Francisco, Alberto Garcia-Ortega, Isabel Amara, Amparo Solé Jover

- NK and T cells responses to CMV in patients awaiting for lung transplantation
  - By Laura Bergantini (Siena, Italy), Dalila Cavallaro, Miriana D'Alessandro, Sara Gangi, Luca Luzzi, Antonella Fossi, Piero Paladini, Élena Bargagli, David Bennett

- Alteration of Immune-checkpoint after specific stimulation with CMV antigens in pre-LTx patients
  - By Laura Bergantini (Siena, Italy), David Bennett, Dalila Cavallaro, Ambra Otranto, Miriana D'Alessandro, Sara Gangi, Luca Luzzi, Piero Paladini, Antonella Fossi, Élena Bargagli

- Impact of Candida spp. contamination of preservation solutions in lung transplantation: a national experience over a 10-year period
  - By Clara Noret (Nantes, France), Cédric Bretonnière, Florent Morio, Tristan Degot, Valérie Bru, Clément Picard, Emilie Cardot, Benjamin Coiffard, Stéphane Ranque, Loic Falque, Murielle Cornet, Pierre Gazengel, Anne Gigandon, Agathe Senechal, Jean Menotti, Vincent Bunel, Christine Bonnal, Aurélie Leborgne, Sophie Cassaing, Xavier Demant, Frederic Gabriel, Eric Dannaoui, F-Xavier Blanc, Adrien Tissot

- Fungal colonisation in lung transplant recipients: A retrospective study from India
  - By Owais Tisekar (Bangalore, India), Md Moiz Lalani, Vijil Rahul, Srinivasa K Ravidati, Unmil Shah, Prabhat Dutta, Sandeep Attawar

TUESDAY 06 SEPTEMBER, 2022
Clinical outcome following lung transplantation in patients with CF colonized with Burkholderia cepacia complex: results from Mater Hospital lung transplant center Dublin.
Amel Alameeri (Dublin 4, Ireland), Michelle Murray

Tuberculosis while on Lung transplant wait list & on ECMO as bridge to transplant- an ethical and clinical challenge
Apar Jindal (Chennai (Tamil Nadu), India), Shubham Sharma, Srirachan Goda, Rakesh Mamilla, Kamran Ali, Sri RaviKanth Vanguri, Jnanesh Thacker

Late Breaking Abstract - dd-cfDNA and DSA in the occurrence of acute rejection in lung transplant recipients
Silvia Casas (Stockholm, Sweden), Pascal PEDINI, Benjamin Coiffard, Jacques Chiaroni, Coralie Frassati, Martine Reynaud-Gaubert, Christophe Picard

Late Breaking Abstract - Characterization of chronic lung allograft dysfunction phenotypes using oscillometry
Anne Fu (Toronto, Canada), Anastasia Vasileva, Nour Hanafi, Natalia Belousova, Joyce Wu, Sarada Sriya Rajyam, Zoltan Hantos, Chung-Wai Chow

Late Breaking Abstract - Safety of oral Nirmatrelvir plus Ritonavir in Lung transplant recipients
Osnat Straichman (Petach Tikva, Israel), Lev Fridkin, Ilana Bakal, Dorit Shitenberg, Yael Shostak, Moshe Heching, Shai Amor, Dror Rosengarten, Yaron Barac, Yuri Peysakhovich, Ala Atamma, Barak Pertzov, Mordechai Kramer

Late Breaking Abstract - Lung transplant and COVID-19: A single centre experience in Ireland
Helen O Brien (Ratoath, Ireland), Suzanne Carter, Breda Lynch, Margaret Hannan, Sara Winward, Patricia Ging, Jana Kleinerova, Peter Riddell, Michelle Murray

Thematic poster: Novelities in respiratory muscle testing, training and airway clearance

Disease(s) : Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s) : Public health, Pulmonary rehabilitation, Respiratory intensive care, General respiratory patient care, Imaging, Physiology, Pulmonary function testing

Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany), Andre Nyberg (Umeå, Sweden)

AGE OF CLIMATERIC SYMPTOMS IS ASSOCIATED TO LOWER MAXIMAL INSPIRATORY PRESSURE
Ingrid Guerra Azevedo, Karina Hunter, Viviana Perez, Mayra Quintana, Kimberly Gavilán, Catherine Llancaleo, Maria Do Socorro Luna Cruz, Saionara Da Câmara, Alvaro Maciel

Determinants of respiratory muscle strength in adult bronchiectasis
Aylin Tanriverdi (Izmir, Turkey), Melike Mese, Buse Ozcan Kahraman, Can Sevinc, Sema Savci

Eccentric diaphragmatic contractions during mechanical ventilation in critically ill patients
Antenor Rodrigues (Toronto, Canada), Michael C Sklar, L. Felipe Damiani, Irene Telias, Thomas Piraino, Laurent Brochard

Reference values for maximal dynamic inspiratory pressure in a healthy population
Vitor Souza (São Paulo, Brazil), José Neder, Luiz Nery, Priscila Sperandio

Can you learn to cough after having a stroke?
Natalia Dominguez Sanz (Burgos, Spain)

The comparison of the effects of inspiratory muscle training and diaphragmatic neuromuscular electrical stimulation on inspiratory muscle strength in mechanically ventilated patients.
Ali Yalman (Denizli, Turkey), Orcin Telli Atalay, Hulya Sungurtekin, Cansu Ozgen, Harun Taskin

The effects of inspiratory muscle training on respiratory muscle strength and diaphragm motion in patients with mechanical ventilator
Harun Taskin (Denizli, Turkey), Orçin Telli Atalay, Furkan Ufuk, Hulya Sungurtekin, Ali Yalman

Effects of counterpressure breathing with steam inhalation on lung function in stable asthma
Ilpo Kuronen (Tampere, Finland), Jukka Heinijoki, Anssi Sovijärvi

Timing of inspiratory muscle activity in patients with unilateral diaphragm dysfunction
Antenor Rodrigues (Toronto, Canada), Luc Janssens, Sauwaluk Dacha, Zafeiris Louvaris, Tin Gojevic, Wim Janssens, Laurent Brochard, Rik Gosselink, W. Darlene Reid, Daniel Langer

The accuracy of the Cuff Leak Test in neurocritical patients
RENATA CORREIA (Rio de Janeiro, Brazil), Iana Paes d' Assumpção Vital, Alexandre Rosa Da Silva, Clara Harazim Gaspari, Camila Afonso Badarô Marques
The experiences and perceptions of mechanical insufflation-exsufflation in people with amyotrophic lateral sclerosis
Shauna Sheridan (London, United Kingdom), Joerg Steier, Phillip Marino, Shelley Srivastava, Eui-Sik Suh, Nicholas Hart, Patrick Murphy, Harriet Shannon, Leyla Osman, Georgios Kaltsakas, Michelle Ramsay

Community Non-Invasive Ventilation practitioner service utilisation for Motor Neurone Disease patients following the Covid-19 pandemic
Emily Johnstone (Bristol (Avon), United Kingdom), Gemma Cox, Dinesh Shrikrishna

A bench study to investigate the safety and performance of Simeox® for secretion clearance
Neeraj Shah (New Malden (Surrey), United Kingdom), Emeline Fresnel, Adrien Kerfourn, Laurent Morin, Patrick Murphy, Maxime Patout

Personalising airway clearance in PCD, exploring expert physiotherapist decision making.
Lynne Schofield (Leeds, United Kingdom), Sally Singh, Jim Wild, Daniel Hind

The use of nasopharyngeal and oropharyngeal suctioning in physiotherapy practice in the United Kingdom
Agnieszka Lewko (Coventry, United Kingdom), Stefan Tino Kulnik, Riyaz Koheeallee, Jack Whiteside

Effects of the intermittent intrapulmonary deflation technique on airway clearance in patients with cystic fibrosis
William Poncin (Bruxelles, Belgium), Juliana Macedo, Gregory Reychler, Giuseppe Liistro

Effects of a physiotherapy intervention including frequent changes of the body position and stimulation of physical activity for infants with acute respiratory infections in hospital – a randomised controlled trial
Sonja Andersson Marforio (Hjärup, Sweden), Eva Ekvall Hansson, Annika Lundkvist Josenby, Christine Hansen

Late Breaking Abstract - Exercise Oscillatory Breathing in Heart Failure: clinical and prognostic implications
Renata Mendes (Sao Carlos (SP), Brazil), Cássia Goulart, Piergiuseppe Agostoni, Elisabetta Salvioni, Rebeca Nunes Silva, Leonard A. Kaminsky, Jonathan Myers, Ross Arena, Renata Gonçalves Mendes, Audrey Borghi-Silva

Pulmonary function outcomes one year after moderate to critical COVID-19 pneumonia
Simone van der Sar (Teteringen, Netherlands), Antine Flikweert, Ingrid De Backer

Persistent symptoms after Covid 19- 6 months follow-up after discharge
Andreea Mihai (Staicu) (craiova, Romania), Cristina Calarasu, Floarea Mimi Nitu, Costin Teodor Streba, Ramona Cioboata

Follow up outcome in COVID-19 patients with persistent symptoms from central India
Abhishek Anil Faye (Bhandara (Maharashtra), India), Rajesh Swarnakar, Shruti Gudhane, Charu Singh

Pre-COVID-19 lung function in a general adult population between COVID-19 and non-COVID-19 cases
Hannu Kankaanrantta (Seinäjoki, Finland), Daniil Lisik, Bright I Nwaru

Post covid-19 manifestations in the omicron wave
Aboubeik Imzil (Agadir, Morocco), Youness Essaid, Houda Moubachir, Hind Serhane

Identifying patients who require respiratory follow up after hospital admission with COVID-19
Jennifer Martinovic (LONDON, United Kingdom), Katherine Myall, Deepan Sivakumar, Johan Meurling, Diana Roque, David Jackson, Andrew Hearn, Ahmed Seedat, Andrew Robbins, Panagis Drakatos, Alex West

Reasons for post-covid hospitalization- one year experience from Serbia
Ana Milenkovic (Novi Sad, Republic of Serbia), Siniša Maksimović, Miroslav Ilić, Jovan Javorac, Dragica Kovačević, Miloš Cveković, Nevena Savić

Fatigue in Long Covid-19 is associated to short hospitalization time and normal lung function
Søren Sperling (Aarhus N, Denmark), Andreas Floe, Steffen Leth, Tina Gissel, Ayfer Topcu, Lars Kristensen, Charlotte Hyldgaard, Lene Dahl Sønderskov, Søren Jensen-Fangel, Johannes Martin Schmid, Hans Jürgen Hoffmann, Elisabeth Bendstrup

Self-reported cognitive complaints in post-Covid-19 patients and its association to cognitive performance
Zjala Ebadi (Groesbeek, Netherlands), Jeannette B. Peters, Brin Van Den Borst, Roy Kessels, Jan H. Vercoulen
Evaluation of respiratory muscle function using ultrasound in post Covid-19 patients with unexplained dyspnea

Evolution of pulmonary function, CT changes and respiratory symptoms 6-8 months after hospital admission with COVID-19 infection
James Kent Bramer (London, United Kingdom), Yee-Ean Ong, Adrian Draper, Saeed Akbar, Raminder Aul

One-year kinetics of the humoral response following SARS-CoV-2 vaccination Among Maintenance Hemodialysis Patients
Ori Wand (Kfar Sava, Israel), Naomi Nacasch, Sydney Benchetrit, Amir Bar-Shai, Keren Cohen-Hagai

Alfa-1 antitrypsin after one year COVID-19 infection
Julian Andres Ceballos Gutierrez (Vera, Spain), Beatriz M Jimenez Rodriguez, Eva Maria Triviño Ibañez, José Gutiérrez Fernández, Ana Dolores Romero Ortiz, Concepción Morales García

Relation of pulmonary diffusing capacity decline to HRCT and VQ SPECT/CT findings at early follow-up after COVID-19. A prospective cohort study (The SECURE study)
Thomas Kromann Lund (Copenhagen NV, Denmark), Terese Katzenstein, Jan Christensen, Anna Kalhauge, Frederikke Rønsholt, Daria Podlekavera, Elisabeth Arndal, Ronan Berg, Thora Kjaer, Anne-Mette Lebech, Jann Mortensen

Oxygen home therapy after discharge of hospitalized patients with COVID-19
Donia Belkhir (Tunis, Tunisia), Hana Blibech, Houda Snene, Sirine Daoud, Line Kaabi, Soumaya Debbiche, Nadia Mehiri, Saoussen Miladi, Ahmed Laatar, Nozha Ben Salah, Bechir Louzir

Post discharge persistent dyspnea after covid-19 pneumonia
Mohamed aymen Jебali (tunis, Tunisia), Hana Blibech, Houda Snene, Sirine Daoud, Donia Belkhir, Line Kaabi, Soumaya Debbiche, Nadia Mehiri, Nozha Bensalah, Bechir Louzir

Predictive factors of persistent dyspnea after COVID-19 pneumonia
Hela Cherif (Tunis, Tunisia), Nouha Guediri, Slim Kalboussi, Mariem Triki, Fadous Yangui, Med Ridha Charfi

Trajectories of respiratory recovery after severe SARS-CoV-2 infection (RECOVERI): a pragmatic, longitudinal cohort study.
Frédéric Schlemmer (Créteil Cedex, France), Simon Valentim, Laurent Boyer, Valentine Bonnefoy, Clairelyne Dupin, Anne Bergeron, François Chabot, Maeva Zysman, Elodie Blanchard, Mehdi Roumila, Charlotte Colin, Violaine Giraud, Etienne Giroux-Leprévost, Thomas Gilles, Yurdagul Uzunhan, Pierre-Yves Brillet, Isabelle Honoré, Nicolas Roche, Morgane Faure, Maxime Patout, Capucine Morelot-Panzini, Sven Gunther, Olivier Sanchez, Anne-Marie Ruppert, Jacques Cadranel, Claire Andrejag, Camille Jung, Emmanuelle Bugnet, Florence Canoui-Poitrine, Bernard Maître

Circulating calprotectin correlates with DLCO in patients four months after COVID-19
Carlos Esteban Machahu Huamani (Bern, Switzerland), Nebal Abu Hussein, Michael P. Horn, Thomas Geiser, Manuela Funke-Chambour

Bronchoalveolar lavage fluid characteristics in patients with persistent symptoms following COVID-19 infection
Maximilian Gysan (Wien, Austria), Antje Lehmann, Dominik Bernitzky, Milacek Christopher, Andreas Zech, Helmut Prosch, Marco Idzko, Daniela Gompelmann

Thematic poster: Accessibility and personalised approach to pulmonary rehabilitation
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Pulmonary rehabilitation, Physiology, General respiratory patient care, Palliative care, Epidemiology, Public health
Chairs: Anouk W. Vaes (Horn, Netherlands), Anja Frei (Zürich, Switzerland)

Late Breaking Abstract - Health economic implications of the use of erdosteine in patients with chronic obstructive lung disease.
Alberto Papi (Cona, Ferrara, Italy), Daniela Paola Roggeri, Alessandro Roggeri

Impact of the COVID-19 pandemic on COPD exacerbations during inpatient pulmonary rehabilitation
Kiikki Waejen-Smit (Horn, Netherlands), Martijn A. Spruit, Rein Posthuma, Fenne De Jong, Daisy J. A. Janssen, Nicole P. H. Van Loon, Bita Hajian, Sandra L. Everts-Snijders, Sami O. Simons, Sarah Houben-Wilke, Frits M. E. Franssen

"You can’t feel what we feel": Multifaceted dyspnea invisibility in advanced chronic obstructive pulmonary disease: A qualitative study
Laurence Serresse (Paris, France), Antoine Guerder, Jonathan Dedonder, Nathalie Nion, Sophie Lavault, Capucine Morelot-Panzini, Jesus Gonzalez, Laelia Benoit, Thomas Similowski
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<th>Paper No.</th>
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<td>PA3351</td>
<td>Home-based pulmonary rehabilitation for adult with difficult-to-control asthma exposed to violence.</td>
<td>Sarah Gephine (Pérenchies, France), Emilie Margoline, Stéphanie Fry, Cécile Chenivesse, Jean-Marie Grosbois</td>
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<td>PA3352</td>
<td>Predictors of poor pulmonary rehabilitation program (PRP) attendance in COPD patients</td>
<td>Huiying Xu (Singapore, Singapore), Calvin You Jia Chen, Shi Tien Heng, Min Sen Yew</td>
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<td>Respiratory Sensation Assessment in COPD and healthy ageing</td>
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<td>Is Virtual Pulmonary Rehabilitation (PR) a feasible and effective alternative to Face to Face?</td>
<td>Laura Moth (London, United Kingdom), Vijay Padmanaban, Crisp Phillip, Lound Adam, Maguire Michelle, Moloney Clare, De Luca Brendan, Kenneth Zoe, Klinge Helena, Elkin Sarah</td>
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<td>PA3355</td>
<td>Predicting those that require rehabilitation following hospitalisation of COVID19.</td>
<td>Enya Daynes (Leicester, United Kingdom), Urvee Karsanji, Nikki Gardiner, Sally J Singh</td>
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<td>PA3356</td>
<td>Pain characteristics in long COVID syndrome patients one year after infection</td>
<td>Javier Martin Núñez (Granada, Spain), Andrés Calvache Mateo, Alba Navas Otero, Irene Torres Sánchez, Ángela Benítez Felipe, Irene Cabrera Martos, Marie Carmen Valenza</td>
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<td>PA3357</td>
<td>Investigating adherence to pulmonary rehabilitation and long-term sequelae in patients with Long COVID.</td>
<td>Megan Clark (Liverpool, United Kingdom), Hafsa Shams-Khan, Gurinder Tack, Laura Watkins, Nneka Nwosu</td>
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<td>PA3358</td>
<td>Activity levels and quality of life in long COVID patients</td>
<td>Javier Martin Núñez (Granada, Spain), Andrés Calvache Mateo, Alberto Rodriguez López, Irene Calles Plata, Araceli Ortiz Rubio, Irene Torres Sánchez, Marie Carmen Valenza</td>
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<td>PA3359</td>
<td>Multidimensional assessment of pulmonary rehabilitation programs in COPD patients</td>
<td>Ana Casal (vigo, Spain), Malena Toubes, Luis Sanz, Carlota Rodriguez, Carlos Rábade, Vanessa Riveiro, Tamara Lourido, Romina Abelleira, Lucia Ferreiro, Adriana Lama, Nuria Rodriguez, Luis Valdés</td>
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<td>PA3360</td>
<td>“When I am breathless now, I don’t have the fear that’s linked to it.” A qualitative case series analysis on the potential of EMDR to break the dyspnea-anxiety cycle in patients with COPD</td>
<td>Kris J.M. Mooren (Haarlem, Netherlands), Kirsten Smit, Yvonne Engels, Daisy Janssen, Judith Godschalx</td>
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<td>PA3361</td>
<td>Bone health in patients with chronic respiratory disease, are we doing enough?</td>
<td>Joseph McHugh (Limerick, Ireland), Caroline Tan, Niamh Logan, Catriona Reddin, Jude Ryan</td>
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<td>PA3362</td>
<td>Pulmonary rehabilitation interventions in COVID-19 patients</td>
<td>Leila Douik El Gharbi (Ariana, Tunisia), Imen Sahnoun, Tasnim Znegui, Ines Moussa, Siwar Rejeb, Salma Mkaddem, Asma Allouch, Rafik Guerfalah, Chiraz Ksouri, Saloua Jameedidine</td>
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<td>PA3363</td>
<td>Needs and perceptions of patients and healthcare providers about Pulmonary Rehabilitation in India</td>
<td>Shruti Sahasarabudhe (Pune (Maharashtra), India), Dipali Dhamhhere, Suryakant Borade, Meenakshi Bhakare, Mahavir Modi, Mark W Orme, Ilaria Pina, Rashmi Rohan, Zahira Ahmed, Andy Barton, Michael C Steiner, Sundeeb Salvi, Sally J Singh</td>
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<td>Development of a Communication instrument about Sexuality in COPD: COSY</td>
<td>Kaba dalla Lana (Wetzikon, Switzerland), Claudia Steurer-Stey, Stefanie Gonin-Saphni, Michèle Borgmann, Ursina Brun Del Re, Sebastian Haas, Eliane Sarasin, Andrea Burri, Alexandra Strassmann, Anja Frei, Milo Puhang</td>
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<td>Mapping UK rehabilitation provision for adults after hospital admission with COVID-19</td>
<td>Sarah Ward (Leicester, United Kingdom), Charlotte Overton, Archie Walters, Andrew Ibbetson, Sally Singh, Rachael Evans, Andrew Briggs, Linzy Houchen-Wollof</td>
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<td>PA3366</td>
<td>Home-based pulmonary rehabilitation for patients with chronic respiratory diseases in Malaysia: A feasibility study</td>
<td>Yong-Kek Pang (Kuala Lumpur (Wilayah Persekutuan), Malaysia), soo chin chan, Julia Patrick Engkasan, Jaspreet Kaur Sekhon, Jayakayatri Jeevajothi Nathan, Norita Hussein, Nik Sherina Hanafi, Anwar Suhaimi, Yong Kek Pang, Saari Yatim, Monsur Habib, Hilary Pinnock, Ee Ming Khoo</td>
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<td>PA3367</td>
<td>Post-COVID pulmonary rehabilitation at primary hospital in Nepal: Preliminary experience from LMIC</td>
<td>Aishana Joshi (Kathmandu, Nepal), Pankaj Pant</td>
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**TP-20 in thematic poster area**

**Session 391**

**08:30 - 09:30**

**Thematic poster: COVID infections prognosis: risk factors and treatment**
Disease(s): Airway diseases, Interstitial lung diseases

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

Chairs: Josje Altenburg (Amsterdam (NH), Netherlands), Rosanel Amaro Rodriguez (Premia de Dalt (Barcelona), Spain)

PA3368 Tocilizumab administration and monitoring in Covid-19
Avinash Aujayeb (Newcastle, United Kingdom), Nathaniel Keidan

PA3369 Risk factors and mortality rate in hospitalized patients with COVID-19: Data from a respiratory medicine department in a reference Hospital for COVID-19
Andreas Photiades (Athens, Greece), Lykourgos Kolilekas, Anastasia Levounets, Konstantinos Loverdos, Lamprini Vlassi, Polixeni Nontsii, Theoni Agapitou, Chrysoula Kontogianni, Romina Chatzipetrou, Stella Giannakaki, Zafiris Sardelis, Theoplisti Grigoratou, Erasmia Ekonomidou, Konstantinos Samitas, Eleftherios Zervas, Mina Gaga

PA3370 Mortality prediction using a modified R2CHA2DS2-VASc score among hospitalized COVID-19 patients
Ori Wand (Kfar Sava, Israel), David Levy, Guy Topaz, Sydney Benchetrit, Keren Cohen-Hagai

PA3371 Multiple-flows exhaled nitric oxide for the detection and severity assessment of post-COVID19 lung sequelae
Paulo Cameli (Siena (SI), Italy), Elena Bargagli, Laura Bergantini, Miriana D'Alessandro, Bruna Maria Giugno, Francesco Gentili, Piersante Sestini

PA3372 Post Coronavirus Disease 2019 (COVID-19) pulmonary fibrosis: a 12 months follow-up study
Matteo Daverio (Padova, Italy), Elisabetta Cocconcelli, Nicol Bernardinello, Simone Petrarulo, Matteo Bovo, Cristina Dartora, Elena De Zorzi, Silvia Tonin, Annamaria Cattelan, Chiara Giraudo, Marina Saetta, Paolo Spagnolo, Elisabetta Balestro

PA3373 COVID-19 Pneumonia Virtual Follow-up Service in Greater Glasgow and Clyde: Effectiveness and Outcomes
Erin McGarry (Glasgow, United Kingdom), Kathryn Scott, Katie Levin, Fadilla Refin, Angela Wright, George Chalmers, David Anderson, Brian Choo-Kang, Hannah Bayes

PA3374 Lingering COVID-19 symptoms in non-hospitalized (NH) patients: Results from a Tunisian prospective cohort
Amany Touil (Tunis, Tunisia), Ella Nemi, Sarra Maazaoui, Tassim Znegui, Mariem Chaabane, Sabrine Maddeh, Sonia Habibech, Hajer Racil, Nawel Chaouch

PA3375 Critical patients with COVID-19: are there any clinical peculiarities?
Kateryna Gashynova (Dnipro, Ukraine), Vladyslav Rudakova, Yelyzaveta Skubchenko, Volodymyr Mykhailov

PA3376 CRP, ferritin, IL-6 and D-dimer: how significant are they in the prediction of disease severity in COVID-19 - A retrospective study
Borislav Božanić (Niš, Republic of Serbia), Marija Topalović, Tatjana Pejčić, Aleksandra Ignjatović, Desa Nastasijević Borovac, Vuk Pejčić, Ana Srbovljević Božanić, Miodrag Vrbić, Marko Bjelaković, Marija Marinković, Milan Radović, Milan Rančić, Ivana Stanković, Lidija Ristić

PA3377 Non-interventional, retrospective, multi-center, follow-up study evaluating the effect of the angiotensin II type 2 receptor agonist C21 on lung pathology in subjects previously hospitalised with COVID-19
Cecilia Ganslandt (Stockholm, Sweden), Rohit Bhalani, Reema Kashiva, Anand Devaraj, Atul Rajkondawar, Kartikeya Parmar, Nirav Bhalani, Al Bohra, Anne-Katrine Cohrt

PA3378 CLINICAL PHENOTYPES OF COVID-19 PNEUMONIA: different phases of viral process or really different states?
Yuliia Huba (Dniproprovitsk, Ukraine), Kseniya Bielosludtseva, Lyudmyla Konopkina, Tetyana Pertseva

PA3379 Developing a Long-COVID follow-up protocol in a Portuguese tertiary hospital
Mariana Gomes (Porto, Portugal), Gabriela Canelas, Cláudio Nunes Silva, António Sarmento, Margarida Tavares

PA3380 Interleukin-6 in SARS-CoV2 risk stratification
Fernando Pereira da Silva (Penafiel, Portugal), Filomena Luís, Filipa Jesus, Élina Almeida, Sara Braga, Joana Ribeiro, Rebeca Natal, João Costa, Mariana Tavares, Luís Ferreira

PA3381 Pulmonary function evaluation after hospital discharge of patients with severe COVID-19
Fernando Carlos Guillén Ortega (Tuxtla Gutierrez Chiapas, Mexico), Carlos Palomeque, Jorge Pola

PA3382 Automated cough detection in COVID-19 and non-COVID-19 pneumonia using machine learning-based technology
Frank Rassouli (Speicher, Switzerland), Maximilian Boesch, Florent Baty, Filipa Barata, David Cleres, Peter Tinschert, Iris Shih, Elgar Fleisch, Martin H. Brutsche

PA3383 The characteristics of patients with pulmonary post covid fibrosis
Imen Kharrat (Kairouan, Tunisia), Amani Kacem, Hajar Hannechi, Rahma Benjazia, Hend Zorgati, Salam Mefteh, Dhoula Benbraiek, Jihen Ayachi, Anis Maatalla, Latifa Merzougui
Association between serum IgG levels and time to first antibiotic prescription in COPD patients
Anna Vanoverschelde (Ghent, Belgium), Samer R. Khan, Virgil A.S.H. Dalm, Layal Chaker, Guy Brusselle, Bruno H. Stricker, Lies Lahousse

Clinical, radiological, and respiratory functional assessment three months after SARS-CoV-2 hypoxic pneumonia
Soumaya Debeche (Le Kram, Tunisia), Houda Snène, Blibeche Hana, Kaabi Line, Sirine Daoud, Souhir Ouali, Jalloul Daghfoos, Nadia Mehiri, Nozha Ben Salah, Bechir Louziz

Long COVID risk factors in a Portuguese cohort
Márcia Araújo (Porto (Porto), Portugal), Sara Dias, Joana Lourenço, Ana Luísa Fernandes, Bruno Cabrita, Joana Amado, Ana Paula Vaz, Inês Neves, Paula Simão, Bárbara Seabra

Microbiological profile of post covid patients admitted in tertiary care center with pulmonary infections.
Deepak Muthreja (Nagpur (Maharashtra), India)

TP-21 in thematic poster
Session 392 08:30 - 09:30

Thematic poster: Bronchiectasis: 2

Disease(s) : Airway diseases

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

Chairs : Michal Shteinberg (Haifa, Israel), Zina Alfahl (Galway, Ireland)

Etiology of Bronchiectasis in Adults in Ukraine
Katernitya Gasjynova (Donipro, Ukraine), Ksenia Suska, Valeriia Dmytrychenko

Mortality related risk factors in patients with non-cystic fibrosis bronchiectasis
Oxana Munteanu (Chișinău (Chișinău), Republic of Moldova), Dumitru Chesov, Doina Rusu, Leonid Onea, Victor Botnaru

Particularities of post-tuberculosis bronchiectasis
Sarra Ben Sassi (ariana, Tunisia), Houda Rouis, Chirine Moussa, Marwa Bougacha, Amel Khattab, Ibthel Khouaja, Leila Bayahi, Ines Zendah, Sonia Maalej

Determinants of Quality of Life using the bronchiectasis impact measure (BIM)
Megan Crichton (Dundee (Angus), United Kingdom), Amelia Shoemark, James Chalmers

Risk factors for Pseudomonas aeruginosa colonization bronchiectasis and clinical implications
Leila Douik El Gharbi (Ariana, Tunisia), Rihab Jebali, Ines Moussa, Imen Sahnoun, Siwar Rejeb, Marwa Bougacha

Effect of COVID-19 on non-cystic fibrosis bronchiectasis exacerbation rates: a retrospective claims study
Ioannis Psallidas (London, United Kingdom), Annika Åstrand, Steven J. Kiddle, Rohith Siva Ganesh Mudedla, Sanchita Porwal, Kaushik Chafekar, Carlos Seminario, James D. Chalmers

Association between the viscoelastic characteristics and sputum colour in patients with bronchiectasis
Leticia Bueno Freire (Barcelona, Spain), Leticia Bueno-Freire, Nona Rovira, Victoria Alcaraz-Serrano, Héctor Sanz-Fraile, Nil Vázquez-Burgos, Rosanel Amaro-Rodríguez, Patricia Oscanoa, Ruben López-Aladid, Andrea Palomeque, Ramon Farré, Jorge Otero, Laia Fernández-Barat *, Antoni Torres*

Bacteriological profile of bronchiectasis superinfections
Hajar Bamha (Casablanca, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam El Khattabi, Moulay Hicham Afif

Do adults with Primary Ciliary Dyskinesia (PCD) have a positive experience of home spirometry?
Stevie Peake (London, United Kingdom), Felicity Dickens, Tanjila Khan, Rachel Dexter-Spooncer, Anand Shah, Janet Stowell, Michael Loebinger, Ari Manuel, Sriram Iyer, Michael Polkey, Ricardo José

Clinical outcomes of bronchiectasis rheumatoid overlap syndrome in Taiwan
Hung Yu Huang (Taipei, Taiwan), Meng Heng Hsieh, Jhen Ling Huang, Fu-Tsai Chung, Chun-Hua Wang, Horng-Chyuan Lin

Assessment of a self-administered home intravenous antimicrobial therapy service for patients with chronic suppurrative lung disease
Georgia Lamb (London, United Kingdom), Sarah Stoll, Ricardo Jose, Michael Loebinger, Anand Shah, Janet Stowell

Improving Physiotherapy Care of Bronchiectasis Inpatients
Jennifer Kilduff (London, United Kingdom), Afra Asadi Ahmad, Lizzie Grillo, Janet Stowell
Regional features of Pseudomonas aeruginosa antibiotic (AB) resistance (R) in patients (pts) with bronchiectasis (Bx)
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriia Dmytrychenko

Filipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Toni Zapata Comas, Laura Rodriguez Pons, Sara Quero Blanca, Esther Barreiro Portela, Liyun Quin, Annie Navarro Rolon, Javier Pomares Amigó, Concepción Montón Soler, Montserrat Vendrell Relat, Gerard Muñoz Castro, Eva Polverino, Antonia Llunell Casanoves, Guillermo Suarez Cuartín, Carmen Calero Acuña, Jorge Abad Capa, Antoni Rosell Gratacós, Alicia Marín Tapia

Late Breaking Abstract - Optimizing the diagnostic approach for Primary Ciliary Dyskinesia with normal ultrastructure
Johanna Raidt (Münster, Germany), Henrik Krenz, Johannes Tebbe, Jörg Große-Onnebrink, Heike Olbrich, Niki Tomas Loges, Luisa Biebach, Christian Schmalstieg, Christina Keßler, Julia Wallmeier, Bernd Dworniczak, Petra Pennekamp, Martin Dugas, Claudia Werner, Heymut Omran

Thematic poster: Bridging lung cancer screening with early diagnostics

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

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

**Chairs:** Andrew Creamer (Bristol (Avon), United Kingdom), Armin Frille (Leipzig, Germany)

Lung Cancer Screening Program via Primary Care Clinics
Greg Holt (Miami, United States), Dave Cuvi, Robert Flowers, Lisa Hue, Elizabeth Balbin

Evaluating the effectivity of deploying a deep learning-based algorithm to aid clinicians and radiologists in diagnosing pulmonary nodules on chest radiographs

Characteristics of resolving pulmonary nodules at three months surveillance computerized tomography thorax.
Shahbaz Nazir (London, United Kingdom), Faizan Haris, Gavin Anderson, Kanwal Tariq

Implementation of the International Lung Screen Trial (ILST) in Catalonia: A Cost Analysis study
Antoni Rosell Gratacos (Badalona (Barcelona), Spain), Sonia Baeza, Francisco López-Seguí, Rocío Mourino, María Saigi, Marta Mumé, Jordi Bechini, Adela Gonzalez, Ester Cervera, Marina Compte, Anna Nuñez, Samuel García-Reina, Jordi Ara

Association of COPD and/or emphysema in the lung cancer screening program in Fundación Jiménez Díaz Hospital
Maria de Los Angeles Zambrano Chacon (Madrid, Spain), Carolina Maria Gotera Rivera, Germán Peces-Barba Romero, Javier Alfayate Sánchez, Maria Fernanda Troncoso Acevedo, Marcel José Rodriguez Guzmán, Abdulkader El Hachem Debek, Elena Cabezas Pastor, Erwin Javier Pinillos Robles, Diana Sánchez Mellado, Francisco José Lasso Del Hierro, María Jesús Rodríguez Nieto, José Joaquín Salvatore Amorim Sortino

Lung Cancer Screening Programme and Pandemic Influences on the Pattern of Referrals to a Thoracic Oncology Service
Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Sabrina Habib

Design and monitoring of the Czech population pilot programme for lung cancer early detection
Karel Hejdík (Ořechov u Brna, Czech Republic), Martina Koziar Vašáková, Ivana Círná Peterová, Hynek Mirka, Bohumil Seifert, Jana Škříčková, Vladimir Koblížek, Marcela Koudelková, Ondřej Ngo, Ladislav Dušek, Ondrej Mäjek

Diagnostic and Prognostic utility of eNOSE for Lung Cancer in a TB-endemic setting: A Pilot Study
Rohit Vadala (New Delhi, India), Bijay Pattnaik, Naveen Bhatraju, Divyanchali Rai, Jaya Tak, Seetu Kashyap, Umashankar Verma, Geetika Yadav, R.S. Dhalwaliwal, Randeep Guleria, Anurag Agrawal, Anant Mohan

Nordic Lung Cancer Registries
Anja Gouliaev (Viby J, Denmark), Torben Riis Rasmussen, Niels Lyhne Christensen
Thematic poster: New tools for the diagnosis of interstitial lung diseases

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

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

**Chairs:** Yet Hong Khor (Melbourne (VIC), Australia), Stéphane Jouneau (Rennes Cedex, France)

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**PA3415**

6-minute walk test in fibrotic interstitial lung disease (ILD)
Yet Hong Khor (Melbourne (VIC), Australia), Kerri A Johansson, Veronica Marcoux, Jolene H Fisher, Deborah Assayag, Nasreen Khallif, Julie Morisset, Martin Kolb, Christopher J Ryerson

**PA3416**

A modified blood cell GAP (eGAP) to prognosticate outcomes in IPF
Michael Kreuter (Heidelberg, Germany), Joyce S Lee, Argyrios Tzouveleakis, Justin M Oldham, Philip I Molyneaux, Derek Weycker, Mark Atwood, Klaus-Uwe Kirchgässler, Toby M Maher

**PA3417**

Evaluation of home monitoring for patients with interstitial lung disease during the COVID-19 pandemic
Gizal Nakshbandi (Barendrecht, Netherlands), Karen Moor, Adrianne D.M. Vorselaars, Marlies S. Wijsenbeek

**PA3418**

Digital device usage for home-monitoring in interstitial lung disease (ILD): mixed-method survey
Rebecca Shuttleworth (Exeter, United Kingdom), Malik Althobiani, Anna Duckworth, John Conway, Johnathan Dainton, Sarah Lines, Jessica Mandizha, Ana Jorge Da Ponte, Chris Scottion, Michael Gibbons, Anne-Marie Russell

**PA3419**

Remote Early Identification of Disease Progression in Connective Tissue Disease related Interstitial Lung Disease (CTD-ILD) using Digital Empowered Monitoring
Wan Lin Ng (Dublin, Ireland), Rebecca O'Farrell, Anja Schweikert, Donough Howard, Laura Durcan, Killian Hurley

**PA3420**

Interstitial Lung Diseases Virtual Clinics: a novel medical education method during pandemic times
Brenda Elena Varela (Ciudad Autónoma Buenos Aires, Argentina), Gabriela Claudia Tabaj, Lucas Sheridan

**PA3421**

The Brainomix automated e-ILD CT algorithm outperforms forced vital capacity in predicting outcomes for patients with idiopathic pulmonary fibrosis
Peter George (London, United Kingdom), Christian Rennison-Jones, Stephen Gerry, Gauri Gupta, Olivier Joly, Eric Greveson, George Harston, Anand Anand

**PA3422**

Reticulation is associated with the risk of disease progression in interstitial lung diseases
Minna Mononen (Kuopio, Finland), Eeva Saari, Hannele Hasala, Hannu-Pekka Kettunen, Sanna Suoranta, Hanna Nurmi, Jukka Randell, Jari Laurikka, Toomas Uibu, Mia Kärkkäinen, Tuomas Seland, Helikki Koskela, Riitta Kaarteenaho, Minna Purokivi

**PA3423**

Characterization of Idiopathic Pulmonary Fibrosis (IPF) and Combined Pulmonary Fibrosis and Emphysema (CPFE) using Respiratory Oscillometry
Joyce Wu (Toronto, Canada), Jessica Jia-Ni Xu, Cynthia Nohra, Anastasiia Vasileva, William Matthew Binnie, Shane Shapera, Jolene Fisher, Clodagh Ryan, Micheal Mcinnis, Zoltan Hantos, Chung-Wai Chow

**PA3424**

Preliminary data of the risk stratification score (RISE) prospective, multi-centre, 3-year, validation trial in idiopathic pulmonary fibrosis.
Gian Marco Manzetti (Marino, Italy), Karishma Hosein, Matthew J Cecchini, Keith Kwan, Mohamed Abdelrazek, Maurizio Zompatori, Paola Rogliani, Marco Mura

**PA3425**

Can FDG-PET/CT imaging be used to prognosticate in Interstitial Lung Disease? A prospective study of the relationship between FDG-PET/CT measurements and quality of life.
Ifitkhar Nadeem (BEDFORD, United Kingdom), Louise Jordon, Balaji Ganeshan, Luke Hoy, Noor Mahdi, Joanna Porter, Ashley Groves, Thida Win

**PA3426**

Interstitial lung abnormality evaluated by automated quantification system: prevalence and progression rate
Ju hyun Oh, Grace Hyun J. Kim, Jin Woo Song

**PA3427**

Pleuroparenchymal Fibroelastosis impact in Idiopathic Pulmonary Fibrosis outcomes
Nuno Faria (Porto, Portugal), Sara Dias, Miguel Silva, Diogo Carvalho, André Carvalho, Patrícia Caetano Mota, Natália Melo, Hélder Novais Bastos, André Terras Alexandre, Conceição Souto Moura, Susana Guimarães, Oksana Sokhatska, Rui Cunha, José Miguel Pereira, António Morais

**PA3428**

Coexistence of pleuroparenchymal fibroelastosis and hypersensitivity pneumonitis – analysis of prognostic impact
Sara Catarina Dias (Braga, Portugal), Nuno Faria, Miguel Silva, Diogo Carvalho, André Carvalho, Patrícia Caetano Mota, Natália Melo, Hélder Novais-Bastos, André Terras Alexandre, Conceição Souto Moura, Susana Guimarães, Oksana Sokhatska, Rui Cunha, José Miguel Pereira, António Morais
| PA3429 | Microbiology profile of BAL in interstitial lung disease patients | Erik Palmer (Eger, Hungary), Alexandra Nagy, Tamas Nagy, Nora Toth, Lorinc Polivka, Krisztina Vincze, Noemi Eszes, Aniko Bohacs, Veronika Müller |
| PA3430 | Cardiopulmonary Exercise Test Could Provide Prognostic Value of 1-year Mortality in Patients with Newly Diagnosed Idiopathic Pulmonary Fibrosis: A Real-World Experience | Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng |
| PA3431 | Fibroblast activation protein and disease severity, progression and survival in IPF | Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Jesper Rømhild Davidsen, Saher Burhan Shaker, Bent Winding Deleuran, Elisabeth Bendstrup, Tue Wenzel Kragstrup |
| PA3432 | Late Breaking Abstract - Transcriptomic differences in lung apices and bases in idiopathic pulmonary fibrosis (IPF) | Nick Wilson (Parkville, Australia), Mae Wong, Cristina Gamell, Monther Alhamdoosh, Laura Mcmillan, Yong Kiat Wee, Martin Staempfli, Glen Westall, Jade Jaffar |
| PA3433 | Late Breaking Abstract - Blood neutrophil levels in IPF patients are significantly associated with quantitative radiological progression | Andrew Achaiah (Oxford, United Kingdom), Emily Fraser, Peter Saunders, Rachel Hoyles, Rachel Benamore, Ling-Pei Ho |
| PA3434 | Late Breaking Abstract - Data-driven multivariate cohort selection and automated CT scan lung volume measurement identifies disease progression in Idiopathic Pulmonary Fibrosis (IPF) | Harry Manners, Tom Mclellan, Kiril Kirov, Mike Roberts, Fahdi Kanavati, Gordon Mckenzie, Darren Gallagher, James Hainsworth, Davinder Dosanjh, Phil Molyneaux, Alessandro Ruggiero, Muhunthan Thillai |

TP-24 in thematic poster  Session 395  08:30 - 09:30

Thematic poster: Sarcoidosis: challenges in the assessment and management of disease complications

Disease(s): Interstitial lung diseases
Method(s): Pulmonary function testing  Epidemiology  Imaging  General respiratory patient care  Cell and molecular biology
Chairs: Marcel Veltkamp (De Meern, Netherlands), Adrianne D.M. Vorselaars (Nieuwegein, Netherlands)

| PA3435 | Corticosteroid-induced remission, and mycophenolate maintenance therapy in GLILD: long-term, longitudinal change in lung function in a single centre cohort | John R Hurst (London, United Kingdom), Heba M Bintalib, David M Lowe, Gaia Mancuso, Georgia Gkrepo, Suranjith L Seneviratne, Siobhan O Burns |
| PA3436 | Modifiable lifestyle factors for sarcoidosis: a nested case-control study | Marina Dehara (Stockholm, Sweden), Michael C. Sacks, Johan Grunewald, Anders Blomberg, Elizabeth V. Arkema |
| PA3437 | Cardiac involvement in sarcoidosis patients: which patients should be screened? | Ecem Naz Ertürk (Mersin, Turkey), Bahar Ulubaş, Kaan Esen, Ahmet Çelik, Şenay Balci, Lülüfer Tamer |
| PA3438 | Diagnosing Small Fiber Neuropathy in Sarcoidosis remains challenging | Lisette Raasing (Nieuwegein, Netherlands), Marcel Veltkamp, Oscar J M Vogels, Jan C Grutters |
| PA3439 | Long-term outcomes of combination therapy with methotrexate and methylprednisolone in patients with pulmonary sarcoidosis | Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavryssyuk, Yaroslav Dziublyk, Galyna Gumeniuk, Nataliia Pandalchuk |
| PA3440 | Sarcoid-like reaction with mediastinal lymphadenopathy in patients after breast cancer surgery | Ryosuke Imai (Tokyo, Japan), Yasue Tsuchida, Torahiko Jinta |
| PA3441 | Bone mineral density in Danish patients with sarcoidosis | Janne Møller (Skanderborg, Denmark), Lars Rejnmark, Elisabeth Bendstrup |
| PA3442 | Vasoactive intestinal peptide for granulomatous diseases – a case series. | Bjoern Frye (Freiburg, Germany), Charlotte Gutzier, Gernot Zissel, Kerstin Höhn, Joachim Müller-Quernehmen |
| PA3443 | Doppler resistive index is informative for assessment lymph nodes on EBUS for predictive diagnosis of sarcoidosis | Rostyslav Bubnov (Kyiv, Ukraine), Anatoli Serhiienko |
| PA3444 | The association between respiratory muscles and physical functioning in patients with ILD: Preliminary results | Martin Dvořáček (Bouzov, Czech Republic), Tamara Zlámalová, Sofie Breuls, Heleen Demeyer, Thierry Troosters, Monika Zurkova, Katerina Neumannova |
### PA3445
**Polymorphisms in immune related genes are associated with Sarcoidosis in Korean Population**
Kateřina Sikorová (Olomouc, Czech Republic), Hee-Young Yoon, Adam Strnad, Lenka Kocourková, Su-Jin Moon, Jin Woo Song, Martin Petrek

### PA3446
**Sarcoidosis, from bioinformatics to bench work**
Thomas El Jammal (Strasbourg, France), Fabien Chevalier, Pascal Sève, Yves Pachéco, Alain Calender

### PA3447
**Covid-19 infection in patients with sarcoidosis: clinical course and outcome – single center experience**
Martina Batarilo Hadar (Zagreb, Croatia), Mateja Janković Makek, Fedža Džubur, Dina Mihelčić Korte, Dina Rnjak, Gordana Pavliša, Andrea Vukić Dugac, Miroslav Samaržija, Ana Hečimović

### PA3448
**ANXA11 rs1049550 associates with Löfgren’s syndrome and chronic sarcoidosis patients**
Bekir Karakaya (Nieuwegein, Netherlands), J.J. Van Der Vis, M. Veltkamp, D. Biesma, J.C. Grutters, C.H.M. Van Moorsel

### PA3449
**Features of the course of COVID-19 in patients with sarcoidosis**
Olena Semendyayeva (Mariupol, Ukraine), Nadiya Monogarova, Kseniya Borodiy, Denis Stupachenko, Dmitriy Shevchenko

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### Thematic poster
**TP-25 in thematic poster**

**Session 396**

**08:30 - 09:30**

**area**

**Thematic poster: Non-PAH pulmonary hypertension**

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<th>Disease(s)</th>
<th>Pulmonary vascular diseases</th>
<th>Sleep and breathing disorders</th>
<th>Airway diseases</th>
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<td>Method(s)</td>
<td>General respiratory patient care</td>
<td>Pulmonary function testing</td>
<td>Imaging</td>
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<td>Physiology</td>
<td>Cell and molecular biology</td>
<td>Epidemiology</td>
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**Chairs**: Stéphanie Saxer (Zürich, Switzerland), Gabor Kovacs (Graz, Austria)

| PA3450 | Study of a novel hypoxia system to evaluate endothelial cell dysfunction in chronic thromboembolic pulmonary hypertension (CTEPH) |
| PA3451 | MicroRNA expression in Chronic Thromboembolic Pulmonary Hypertension |
| PA3452 | Pulmonary Hypertension (PH) due to Pulmonary Embolism (PE) secondary to COVID19 – A District General Hospital (DGH) experience from the UK |
| PA3453 | Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension improves sleep-disordered breathing |
| PA3454 | Right atrial pressure to pulmonary artery wedge pressure ratio in chronic thromboembolic pulmonary hypertension |
| PA3455 | Carbon dioxide and alveolar dead space as prognostic markers for pulmonary endarterectomy patients |
| PA3456 | Pulmonary thromboendarterectomy after COVID-19 infection: USA single center experience |
| PA3457 | Medical bridging therapy before pulmonary endarterectomy? |
| PA3458 | Evaluation of chronic thromboembolic pulmonary hypertension: a pilot-study |

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ERS International Congress 2022
DETAILED PROGRAMME
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19.08.2022
Remodeling of small airways and their associated vasculature is a hallmark of Idiopathic Pulmonary Fibrosis.
Andres Moran-MacDonald (Vancouver, Canada), Keith Wu, Kohei Ikezoe, Stacey Ledoux, Joel Cooper, Jim Hogg, Dragos Vasilescu, Tillie Hackett

Acute vasoreactivity in WSPH Group-3 pulmonary hypertension and relation to inhaled treprostinil response
Eileen Harder (Boston, United States), David Systrom, Aaron Waxman

Clinical phenotypes and outcomes of severe pulmonary hypertension with chronic obstructive pulmonary disease
Alexandre Diaz (Saint Etienne, France), David Montani, Samy Chelabi, Xavier Jais, Laurent Savale, Marios Froudarakis, Souad Bezzeghoud, Athénaïs Boucly, Mitja Jevnikar, Olivier Stirbon, Laurent Bertolletti, Marc Humbert

Recognition of early pulmonary structural changes with real-time high fidelity expiratory CO2 analysis
Teresa Sassmann (Graz, Austria), Michael Pienn, Gabor Kovacs, Philipp Douschan, Vasile Foris, Nikolaus John, Katarina Zeder, Andreas Zirlik, Horst Olschewski

Efficacy of Digoxin in isolated Right ventricular Dysfunction due to Chronic Pulmonary Diseases
Sudarsan Pothal (Puri, India), Narendra Tengli, Nayan Patel, Aurobindo Behera

Hemodynamic mechanisms in patients with pulmonary hypertension and chronic obstructive pulmonary disease: a retrospective monocentric cohort study
Pierre Thoré (Nancy, France), Jean Staenzel, Simon Valentin, Anne Guillaumot, Christine Selton-Suty, Emmanuel Gomez, François Chabot, Ari Chauvat

Pulmonary Vascular Calcification As A Pathomechanism In Pulmonary Hypertension Due To Left Heart Disease
Shao-Fei Liu (Berlin, Germany), Mariya M. Kucherenko, Pengchao Sang, Qiuhua Li, Juquan Yao, Netra Nambiar Veetil, Tara Gransar, Ioana Alesutan, Jakob Voelk, Christoph Nosalla, Wolfgang M. Kuebler

Right ventricle – pulmonary artery coupling is a risk factor for mortality in patients with pulmonary hypertension associated with heart failure and preserved ejection fraction
Saleh Nazzal (Nahef, Israel), Shemy Carasso, Claudia Simsolo, Marwan Amara, Yochai Adir

The effect of parenchymal lung disease on patient characteristics and outcome in SSc-PH: Insights from the ASPIRE registry
Robin Condiffe (Sheffield (South Yorkshire), United Kingdom), Ashraful Haque, Krit Divvedi, Robert Lewis, Athanasios Charalampopoulos, Charlie Elliot, Abdul Hameed, Neil Hamilton, Sheila Ramjug, Alex Rothman, Andy Swift, Roger Thompson, David Kiely

Pulmonary hypertension and ECG synchronized CT scan for pulmonary artery pulsatility calculation in pre-TAVI patients and prognostic significance
Yochai Adir (Haifa, Israel), Johad Khoury, Ibrahim Naoum, Yuval Shachaf, Magdi Qdah, Ronin Yaffi

Right ventricular myocardial dysfunction in patients (pts) after severe coronavirus disease (COVID-19)
Oleksandr Fesenko (Slobozhanske, Ukraine), Lada Siabro, Ksenia Bielosludtseva

Value of functional MRI in long term patient care after lung transplantation.
Jens Vogel-Claussen (Hannover, Germany), Till Kaireit, Andreas Voskrebenzev, Filip Klimes, Lea Behrendt, Marcel Gutberlet, Christopher Korz, Milan Speth, Tobias Welte, Frank Wacker, Jens Gottlieb

First-in-human evaluation of 18F-BMS-986327 as a novel PET tracer to assess lysophosphatidic acid receptor 1 (LPA1) target engagement in the lung
Ralph Smith (Princeton, United States), David Donnelly, Jean-Dominique Gallezot, Yihuan Lu, Brian Murphy, Peter Cheng, Joonyoung Kim, Edgar Charles, Shuyan Du, Daniel Holden, Soheila Najafzadeh, Hong Gao, Michael Kapinos, Jim Ropchan, Nabeel Nabulsi, Henry Huang, Aryeh Fischer, Richard Carson

PET/MR to study lung morphology and inflammation in children and adolescents with Primary Ciliary Dyskinesia
Valentina Agnese Ferraro (Rosa’ (VI), Italy), Chiara Giraudo, Pietro Zucchetta, Stefania Zanconato, Diego Cecchin, Silvia Carraro

Thematic poster: Multimodality respiratory imaging research: what is novel in 2022

Disease(s) : Interstitial lung diseases  Airway diseases  Pulmonary vascular diseases  Thoracic oncology
Method(s) : Imaging  Cell and molecular biology  Public health  Pulmonary function testing  Epidemiology  Transplantation  Endoscopy and interventional pulmonology

Chairs : Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Helmut Prosch (Wien, Austria)
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<th>PA3473</th>
<th>Feasibility of Hyperpolarized 129Xe MRI in Primary Ciliary Dyskinesia</th>
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<td>Wallace Wee (Toronto (ON), Canada), Brandon Zanette, Samal Munidasa, Sharon Braganza, Daniel Li, Felix Ratjen, Giles Santyr, Sharon Dell</td>
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<th>PA3474</th>
<th>Hyperpolarised 129Xe MR imaging of lung ventilation in neonates with bronchopulmonary dysplasia: initial experience</th>
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<td>Neil James Stewart (Sheffield (South Yorkshire), United Kingdom), Nara S Higano, Shannukha S Mukthapuram, Matthew M Willmering, Anita Arnsperger, Wolfgang Loew, Rolf F Schulte, Jim M Wild, Jason C Woods</td>
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<tr>
<th>PA3475</th>
<th>Feasibility of Specific Ventilation Imaging on a 3T MRI scanner</th>
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<tr>
<td>Claire O'Sullivan (Melbourne, Australia), G. Kim Prisk, Kris Nilsen, Richard McIntyre, Beau Pontre, David Dubowitz, Bruce Thompson</td>
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<tr>
<th>PA3476</th>
<th>Correlation between radiological subtypes and histopathology in restrictive allograft syndrome after lung transplantation</th>
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<td>Adriana Dubbeldam (Nieuwroede, Belgium), Robin Vos, Arno Vastapael, Walter De Wever, Stijn E. Verleden, Emanuele Muscogiuri, Johan Coolen, Birgit Weynand, Johny A. Verschakelen</td>
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<tr>
<th>PA3477</th>
<th>Multimodal 4D imaging and deep learning unveil acinar migration of tissue-resident, nanoparticle-laden macrophages in the lung</th>
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<td>Lin Yang (Oberschleißheim, Germany), Qiongliang Liu, Pramod Kumar, Arunima Sengupta, Ali Farnoud, Ruolin Shen, Darya Trefimova, David Kutschke, Marie Piraud, Fabian Isensee, Gerald Burgstaller, Markus Rehberg, Tobias Stoeger, Omnar Schmid</td>
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<th>PA3478</th>
<th>Reflux micro-aspiration associated with oesophageal dysmotility but not delayed liquid gastric emptying</th>
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<td>Laura Van Huizen (Amsterdam, Netherlands), Johannes Daniels, Teodora Radonic, Jan Von Der Thüsen, Danielle Cohen, Marloes Groot, Jouke Annema</td>
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<th>PA3479</th>
<th>Radiological aspects of thoracic involvement in hematological malignancies</th>
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<td>Zakaria Laklai (casablanca, Morocco), Khadia Channoune, Nahid Zaghba, Hanane Benjelloune, Najiba Yassine</td>
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<th>PA3480</th>
<th>Assessment of lung disorders in patients with rheumatoid arthritis (RA)</th>
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<tr>
<td>Yuliia Huba (Dnipropetrovsk, Ukraine), Larisa Botvinikova, Lyudmyla Konopkina, Oxana Plekanova</td>
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<th>PA3481</th>
<th>Bronchial arterial embolization for management of hemoptysis: are there factors influencing the successful treatment?</th>
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<td>Diogo André Barroso Ferreira (Vila Nova De Famalicão, Portugal), Marta Castro, Ana Rita Gigante, Ana Raquel Marçôa, Diogo Rocha, Eloisa Silva, Carla Ribeiro, Teresa Shiang, Manuela Vanzeller</td>
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<tr>
<th>PA3482</th>
<th>Predictors of short term mortality in acute pulmonary embolism</th>
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<td>Ali Abdelaziz (Minia, Egypt), Yosra M Ali, Mohamed Abdelaziz, Ahmed H Mohamed, Hany T Asklany, Noha M M Abdullah, Rasha A Abdelfattah</td>
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<th>PA3483</th>
<th>Assessing clinicians' detection rate of Pulmonary Embolism (PE) with use of CT Pulmonary Angiogram (CTPA) imaging in an Acute Hospital Trust</th>
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<td>Roisin O’Neill (Birmingham, United Kingdom), Jessamy Reece, Bethany Jones, Muhammad Bilal Niazi, See Ling Tan, Abhi Lal</td>
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<th>PA3484</th>
<th>Mounier-Kuhn syndrome: about 4 cases</th>
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<td>Manelle Rjimati (Fès, Morocco), Zineb Biaz, Mounia Serraj, Mohammed Elbize, Mohamed Chakib Benjelloun, Bouchra Amara</td>
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<th>PA3485</th>
<th>Meta-analysis of mean transit time and pulmonary blood flow in the lung</th>
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<tr>
<td>Marta Tibiletti (Manchester, United Kingdom), Lucy Edwards, Jo Naish, Geoff J M Parker, John C Waterton</td>
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**TP-3 in thematic poster**

**Session 398**

**8:30 - 9:30**

**Area**

Thematic poster: Remote monitoring and self-management of respiratory patients

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

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

**Chairs:** Esther I. Metting (Groningen, Netherlands), Paula Maria Gonçalves Pinto (Lisboa, Portugal)
Feasibility of an asthma app to monitor inhaler adherence in primary care: a 4-month prospective multicentre study
Rita Amaral (Porto, Portugal), Cristina Isabel Oliveira Jäcome, Sara Rocha, Francisca Cardia, Rui Lobo, Tania Ferreira, Cristina Guimarães, Ana Margarida Cruz, Daniela Morais, Rosâlia Páscoa, Inês Vieira, Sofia Silva, Carlos Santos, Luís Monteiro, Rosário Monteiro, Natalina Rodrigues, Margarida Cepa, Maria João Faria, Ana Monteiro Penas, Ângela Neves, Inês Rosendo, Carlos Seiça Cardoso, Rui Oliveira, Daniela Sousa Coelho, José Varanda Marques, Bruno Reis, Sara Fernandes, Patricia Vieites, Filipe Pimenta, Luis Salgueiro, Margarida Abreu Aguilar, Ana Rita Mourão, Ana Margarida Pereira, Rute Almeida, Magda Alves-Correia, Jaime Correia De Sousa, João Almeida Fonseca

Experiences of home-monitoring in patients with Interstitial Lung Disease (ILD): An exploratory, qualitative study
Jessica Mandizha (Exeter, United Kingdom), Michael Gibbons, Sarah Lines, Graham Brown, Ana Jorge Da Ponte, Anna Duckworth, Rebecca Shuttleworth, Matthew Stewart, Chris Scotton, Maureen Cosby, Alexander Berry, Anne-Marie Russell

Improved outcomes with use of the LenusCOPD digital service in the DYNAMIC-SCOT study
Anna Taylor (Glasgow, United Kingdom), Morgan Dow, Andrew Cushing, David Lowe, Paul Meginness, Chris Carlin

Daily heart rate characteristics, allergy symptom severity and mood in adults with allergic rhinitis
Jorn Buekers (Barcelona, Spain), Michiel Stas, Raf Aerts, Nicolas Bruffaerts, Sebastien Dujardin, An Van Nieuwenhuyse, Jos Van Orshoven,Guillaume Chevance, Ben Somers, Jean-Marie Aerts, Judith Garcia-Aymerich

The interest of telemonitoring on treatment abandonment in patients with home noninvasive ventilation: the O’telo observation study.
Raphaël Le Mao (Brest, France), Joelle Texereau, Frederique Kremener, Mathieu Rose, Christophe Gut Gobert

Effectiveness of a reliever-based Digital System on asthma control
Flavia Hoyte (Denver, United States), Giselle Mosnaim, Linda Rogers, Guilherme Safioti, Randall Brown, Thomas Li, Michael Depietro, Michael Reich, Tanisha Hill, Michael Wechsler

Data from a reliever-based Digital System supports patient-clinician interactions in asthma
Flavia Hoyte (Denver, United States), Giselle Mosnaim, Linda Rogers, Guilherme Safioti, Randall Brown, Thomas Li, Michael Depietro, Michael Reich, Tanisha Hill, Michael Wechsler

Is daily home spirometry feasible in remote monitoring of interstitial lung disease?
Colin Edwards (Dublin, Ireland), Sarah Barth, Gauri Saini, Yussef Haider, Nicholas Williams, William Storrar, Iain Stewart, Gisli Jenkins, Melissa Wickremasinghe

Using digital technology for home monitoring in children and adolescents with cystic fibrosis
Daniela Savi (Rome, Italy), Valeria Raia, Antonella Tosco, Angela Sepe, Raffaele Cerchione, Giulia Borgia, Camilla Romano, Antonio Di Pasqua, Paolo Buonpensiero

Health status progression measured using weekly COPD Assessment Test (CAT) scores over 1 year and its association with COPD exacerbations
Paul Jones (London, United Kingdom), Toru Soutome, Taizo Matsuki, Masahiro Shinoda, Osamu Hataji, Motohiko Miura, Masaharu Kinoshita, Akira Mizou, Kazunori Tobino, Takanobu Nishi, Takeo Ishii, Yoko Shibata

Views on features of an ‘app’ to support asthma self-management among Malaysian adults with limited health literacy: a feasibility study
Ee Ming Khoo (Kuala Lumpur, Malaysia), Ai Theng Cheong, Shariff Ghazali Sazling, Ping Yein Lee, Hani Salim, Noor Harzana Harrun, Bee Kiu The, Sahliaia Mohamad Isa, Norita Hussein, Nik Sherina Hanafi, Hilary Pinnock

Accuracy of a wearable device for assessing sedentary behavior in Chronic Obstructive Pulmonary Disease
Wade Michaelchuk (Toronto, Canada), Roger Goldstein, Dina Brooks

Improving symptom perception in asthmatic children: a pilot study using feedback on home-monitoring measurements
Ingrid de Bekker ( Enschede, Netherlands), Mattiènne Van Der Kamp, Job Van Der Palen, Anke Lenferink, Boony Thio

Results from a test of change project using the MyCOPD app with pulmonary rehabilitation patients
Nicola J. Roberts (Edinburgh, United Kingdom), Susan Mcnarry, Elizabeth Payne, Gourab Choudhury

Wearable lung monitoring device with integrated non-invasive chest imaging and sound recording: a clinical validation study
Inez Frerichs (Kiel, Germany), Josias Wacker, Rita Paradiso, Vassilis Kilintzis, Bruno M. Rocha, Fabian Braun, Michaël Rapin, Laura Caldani, Nikolaos Beredimas, Romanos Trechlis, Claas Strothoff, Rui P. Paiva, Nikolaos Maglaveras, Norbert Weiler
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<th>PA3503</th>
<th>Measuring adherence to inhaled control medication in patients with asthma: comparison among an asthma app, patient self-report and physician assessment</th>
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<td>Afonso Cachim, Ana Margarida Pereira, Rute Almeida, Rita Amaral, Magna Alves-Correia, Pedro Vieira-Marques, João Almeida Fonseca, Cristina Isabel Oliveira Jácome</td>
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<th>PA3504</th>
<th>Mobile application to prepare the ALS patient and clinical specialist for the first consultation on home mechanical ventilation</th>
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<td>Sander Steijns (Margraten, Netherlands), Marijke Rutten</td>
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<th>PA3505</th>
<th>Late Breaking Abstract - Validation of a novel wearable monitoring patch for continuous respiratory monitoring</th>
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<td>Morales John (Heverlee, Netherlands), Roberto Garcia Van Der Westen, Gabriela Yordanova, Willemijn Groenendaal, Carlos Agell</td>
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**TP-4 in thematic poster**

**Session 399**

**08:30 - 09:30**

**Thematic poster: Assessment of respiratory physiology**

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

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

**Chairs:** Camille Rolland-Debord (clermont-ferrand, France), André Luis Pereira De Albuquerque (São Paulo (SP), Brazil)

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<th>PA3506</th>
<th>Investigation of the relationship between breathing motor adaptation and agency: a physiological &amp; VR-based study</th>
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<td>Sophie Betka (Genève, Switzerland), Antoine De Comite, Florent Jeanpetit, Sunho Lee, Claire Meuwly, Oliver Kanappe, Florian Lance, Sixto Alcoba, Olaf Blanke</td>
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<th>PA3507</th>
<th>Fluctuations of respiratory frequency in infants according to the state of activity in a 24-hour time frame</th>
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<td>Marita Antoniadi (Athens, Greece), Konstantinos Douros, Michael Anthracopoulos, Ourania Magoni, Konstantinos Priftis</td>
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<th>PA3508</th>
<th>Risk factors for respiratory depression in Opioid Use Disorder</th>
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<td>Caroline Jolley (London, United Kingdom), Basak Tas, Nicola J Kalk, Manuel Lozano- García, Gerrard F Rafferty, Peter S P Cho, Michael Kelleher, John Moxham, John Strang</td>
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<th>PA3509</th>
<th>Impact of continuous pulse oximetry recording on 6-minute walking distance in patients with chronic respiratory diseases</th>
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<td>Anna Carolina Azevedo (Porto Alegre, Brazil), Anna Carolina Campos De Azevedo, Litlie Evelin Wagner, Gustavo Hauenstein Rosa, Amanda Becker Da Silva, Ravena Maya Cardoso Da Silva, Kassio Padilha Goulart, Franciele Plachi, Igor Gorski Benedetto, Marcelo Basso Gazzana, José Alberto Neder, Danilo C Berton</td>
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<th>PA3510</th>
<th>Evaluation of the clinical impact of the revised Bronchodilator responsiveness of the ATS/ERS 2021 on asthmatic children</th>
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<td>FATMA ELLEUCH (Sfax, Tunisia), Rim Kammoun, Sana Sellami, Sana Ben Jemaa, Farah Gargour, Ines Kammoun, Kaouthar Masmoudi</td>
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<th>PA3511</th>
<th>Bronchodilator response for oscillometry in severe eosinophilic asthma</th>
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<td>Rory Chan (Glasgow, United Kingdom), Chris Rui Wen Kuo, Brian Lipworth</td>
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<th>PA3512</th>
<th>Interactions between spirometry and oscillometry in patients with moderate to severe asthma</th>
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<td>Rory Chan (Glasgow, United Kingdom), Brian Lipworth</td>
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<th>PA3513</th>
<th>Comparison of lung function measured by spirometry, plethysmography and impulse oscillometry in hospitalized adults</th>
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<td></td>
<td>Eyal Kleinhendler (Tel Aviv-Yafo, Israel), Rosman Maya, Elisabeth Fireman, Irena Fomin, Inbal Friedman Regev, Evgeny Gershman, Noa Ofir, Tal Perluk, Boaz Tiran, Avraham Unterman, Amir Bar-Shai</td>
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<th>PA3514</th>
<th>Reliability and clinical relevance of impulse oscillometry in smokers with and without airflow obstruction</th>
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<td>Matthew D. James (Kingston (ON), Canada), Sandra G. Vincent, Devin B. Phillips, Michael K. Stickland, Jordan A. Guenette, J. Alberto Neder, Denis E. O'Donnell</td>
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<th>PA3515</th>
<th>Effects of implementing GLI-2012 reference equations on pulmonary function test (PFT) interpretations</th>
</tr>
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<td></td>
<td>Haruna Kitazawa (Toronto, Canada), Annie Jiang, Joyce K.Y. Wu, Cynthia Nohra, Honami Ota, Clodagh Ryan, Chung-Wai Chow</td>
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<th>PA3516</th>
<th>Volumetric capnography to assess changes in respiratory mechanics during methacholine challenge in rats</th>
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<td>Petra Somogyi (Hódmezővásárhely, Hungary), Ibolya Tóth, Szilvia Kecskés, József Tölőai, Ferene Petők, Gergely H. Fodor</td>
</tr>
</tbody>
</table>
Retrospective accuracy evaluation of a long-term, large number spirometry dataset of a health check-up clinic of Japan.
Tetsuo Kimura (Saku, Japan), Satoru Yanagisawa, Satoshi Wasamoto, Nariaki Ohura, Nobutoshi Morozumi

What is the clinical relevance of reference values in the 6MWT?
Juan Fco. Nieves Salceda (Oviedo, Spain), Marta Iscar Urrutia, Ramón Fernández Álvarez, Gema Rubinos Cuadrado, Maria José Vázquez López, Laura Abad Chamorro, Patricia Álvarez Álvarez, Eduardo Sánchez Vázquez, Angela Lanza Martínez, Laura Martínez Vega, Alejandro Fernández Fernández, Covadonga De La Escosura Muñoz, Maria Marta García Clemente

The adding value of continuous monitoring of pulse oximetry during the 6-minute walk test for prognosis estimation in interstitial lung disease
Franciele Plachi (Porto Alegre, Brazil), Fernanda Machado Balzan, Anna Carolina Campos De Azevedo, Kimberli Dantas Käfer, Litiele Evelin Wagner, Marcelo Basso Gazzana, José Alberto Neder, Danilo Cortozi Berton

Standardisation of specific airway resistance measurements in COPD.
James Dean (Holmes Chapel, United Kingdom), Leanne Archer, Natalie Jackson, Dave Singh

Assessment of the relation between the severity of the deformity and spirometric values of children with pectus deformity.
Dilara Doghan (Ankara, Turkey), Gizem Ozcan, Fazılcan Zirek, Merve Nur Tekin, Secahattin Bayav, Nazan Cobanoglu

Respiratory effects of commonly used anesthesia regimes in rats
Gergely H. Fodor (Szeged, Hungary), Álmos Schranc, Bence Ballók, Ibolya Tóth, József Tolnai, Ferenc Peták

Fractional exhaled nitric oxide in the assessment of exercise-induced bronchoconstriction: a multicentre retrospective analysis of UK-based athletes
Oliver Price (Leeds, United Kingdom), John Dickinson, William Gowers, Savannah Sturridge, Neil Williams, Pascale Kippelen, Andrew Simpson, Anna Jackson, James Hull

The role of n-of-1 single-blinded crossover ambulatory oxygen test (AOT) in fibrotic interstitial lung disease (fILD)
Hazel Wilkie (Glasgow, United Kingdom), Jill Macleod, Alex Przybylski, Nik Hiranı

Comparison of different reference values for lung function, and implications of inconsistent use nationwide
Henrik Mangseth (Oslo, Norway), Liv Ingunn Bjoner Sikkeland, Ole Henrik Myrdal, Mariann Ulvestad, Johnny Kongerud, Michael Thomas Durheim, May Brit Lund

Serum markers of endothelial dysfunction and invasive mechanical ventilation in COVID-19
Laura Cornejo-Cornejo (Mexico City, Mexico), Arturo Orea-Tejada, Dulce Gonzalez-Islas, Juan Marquez-Cordero, Alejandra Rios-Peada, Jorge Aguilar-Meza, Mariana Salvatierra-Escobar, Iris Lopez-Vazquez, Carlos Sanchez-Moreno, Luis Hernandez-Urieta, Alejandra Loaeza-Roman, Juan Carlos Garcia-Hernandez, Yasmin Debray-Garcia, Maria Patricia Sierra-Vargas, Gamaliel Aztati-Aguilar

PSP kinetics in the prediction of VAP diagnosis
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Marta Camprubi, Lieuwe Bos, Pedro Povoa, Ignacio Martin-Loeches, Aina Areyn, Elena Campaña, Luis Morales, Paula Ramirez, Mariano Esperatti, Antoni Torres, Antonio Artigas

C3a and C5b-9 levels differentially predict COVID-19 severity and mortality.
Maria Detsika (Athens, Greece), Elpida Diamanti, Kleio Ampelakiotou, Edison Jahaj, Stamatiou Tsipilis, Nikolaos Athanasiou, Alexandros Zacharis, Ioanna Dimopoulou, Stylianos Orfanos, Alexandra Tsiriogianni, Anastasia Kotanidou

Calcium-sensing receptor signalling and neutrophil dysfunction: implications in critical illness
Polina Yarova (Newcastle upon Tyne, United Kingdom), Jonathan Scott, Vsevolod Telezhkin, Emma Turnbull, Benjamin J. Patchett, Christopher Merrill, Marie-Helene Ruchaud-Sparagano, Kate Musgrave, Daniela Riccardi, Anthony J. Rostron, Thomas P. Hellery, John A. Simpson

A pilot trial for ozanimod therapy in hospitalized COVID-19 patients
David Marsolais (Quebec, Canada), Nathalie Chateauvert, Pascale Blais-Lecours, Philippe Rola, Tuyen Nguyen, Françoise Lellouche

Thematic poster: COVID-19: from bench to bedside

Disease(s): General respiratory patient care, Respiratory intensive care, Cell and molecular biology, Surgery
Method(s): General respiratory patient care, Respiratory intensive care, Cell and molecular biology, Surgery
Chairs: Christoph Fisser (Regensburg, Germany), João Carlos Winck (Vila Nova de Gaia, Portugal)

Serum markers of endothelial dysfunction and invasive mechanical ventilation in COVID-19
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A pilot trial for ozanimod therapy in hospitalized COVID-19 patients
David Marsolais, Nathalie Chateauvert, Pascale Blais-Lecours, Philippe Rola, Tuyen Nguyen, Francois Lellouche
Towards a better diagnostic and treatment of ventilator-associated respiratory infections.

Andrea Palomeque Flores (BARCELONA, Spain), Rubén López, Alba Soler, Leticia Bueno, Nona Rovira, Enric Barbeta, Ana Motos, Miriam Villanueva, Nil Vázques, Roberto Cabrera, Antonio Torres*, Laia Fernández-Barat*

Importance of alveolo-arterial oxygen gradient in monitoring moderate/severe forms of COVID-19

Cristina Maria Tusa (cluj-napoca, Romania), Andreea Daniela Prodisteanu, Diana Laura Moldovan, Loreana Cardos-Rosca

Outcome of patients admitted in Covid ICU during first wave and second wave in Mumbai Tertiary Hospital

ROHIT SUHAS BHINGARDEVE (SANGLI, India), Sudarshan Ramdas Mante, Naman Shamsunder Ajwani, Swapnil Manaji Thorve, Siddharth Ravindranath Wayghmare, Jairaj Parameswaran Nair

The Utility of Estimating the Shunt Fraction of Critical Patients with COVID-19 in determining the outcome of High Flow Nasal Cannula at Lung Center of the Philippines, a pilot study.

Marvic Raymond Gabitan (Quezon City, Philippines), Shiela Ganangan

Clinical Profile and Outcomes of COVID19 confirmed cases with Acute Respiratory Distress Syndrome Undergoing Protocol directed assisted Prone Positioning at Lung Center of the Philippines (LCP) from May 1, 2020 to April 30, 2021

Krizelle Acibal (San Jose del Monte Bulacan, Philippines), Noel Gomez, Portia Tanyag

Predictive indexes in prolonged weaning of mechanical ventilation due to tracheostomy in patients with COVID-19 pneumonia

Carlos Maria Franceschini (Ciudad Autónoma Buenos Aires, Argentina), Jorge Rodriguez, Mariano Wysocki, Mercedes Kleinert, Carlos Cozzani, Margarita Torres Boden, Julio Giorgini, Orlando Sique, Amada Sanchez Andia, Andrea Olmos, Mariana Finadeso, Elizabeth Santilli, Daniel Nahmias, Barbara Fries, Maria Lucrecia Olave, Ludmila Ciaponi, Merjay
Henriquez Salazar

Ventilator associated pneumonia surveillance in critically ill patients with COVID-19 in a tertiary care hospital

Damla Karadeniz Güven (Ankara, Turkey), Gülçin Telli Dizman, Gökhan Metan, Ganize Durhan, Arzu Topeli, Ahmet Uğur Demir

Impact of combined non-invasive support strategies use during acute respiratory failure due to COVID-19.

Sergi Pascual Guardia (Barcelona, Spain), Judith Marin Corral, Francisco Parrilla, Marcos I Restrepo, Alejandro Rodriguez, Juan Carlos Ballesteros, Susana Sancho, Lorenzo Socies, Emili Diaz, Antonio Albaya-Moreno, Joan Ramon Masclans

The successful use of Pezzer Catheter in Covid-19 patients

Kalliopi Athanassiadi (Athens, Greece), Symeon Mitrou, Eleni Ischaki, Maria Kazantz, Ilias Galanis, Evangelia Liverakou, Aikaterini Sarri, Stylianos Kokkoris, Zafeiria Mastora

Delay of intensive care admission of severe COVID-19 patients : what impact on mortality ?

Fatma Essafi (Zaghouan, Tunisia), Imen Tatik, Khoulia Khazal, Ben Ismail, Malek Kharrat, Najla Ben Slimene, Aida Bayoudh, Ilhem Fessi, Moez Kaddour, Takoua Merhabene

Relationship between blood gases and inflammatory markers with clinical outcomes in critically ill patients with COVID-19

Nickson Morais (Mossoró, Brazil), Carla Candice Costa De Morais, Valéria Duarte De Almeida, Micássio Fernandes De Andrade, Ellany Gurgel Cosme Do Nascimento, José Verissimo Fernandes, Christiane Medeiros Bezerra, Thales Allyrio Araújo Do Medeiros Fernandes

Utilization of corticosteroids among patients died with COVID 19: A single center experience from a resource poor setting

Dapanaduwage Amila Vindana Rathnapala (Minuwangoda, Sri Lanka), Buddhini Impulhipitiya, Prabuddha Attanayake, Prasanna Liyanage, Anoma Siribaddana

Clinical and laboratory characteristics of patients who succumbed to COVID-19: a single center experience from a resource poor setting

Dapanaduwage Amila Vindana Rathnapala (Minuwangoda, Sri Lanka), Buddhini Impulhipitiya, Prabuddha Attanayake, Prasanna Liyanage, Anoma Siribaddana

Comparing the effect of strict versus routine awake prone positioning among patients hospitalised with COVID-19

Hamza Asif (Peshawar, Pakistan), Saadia Ashraf, Amber Ashraf

Clinical effects and mortality of farility in geriatric COVID-19 patients

Zeynep Sofia Şahin Eröksüz (Istanbul, Turkey), Şehnaz Olgun Yıldızeli
**Disease(s):** Airway diseases, Respiratory critical care, Pulmonary vascular diseases

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

**Chairs:** Stefan Marciniak (Cambridge (Cambridgeshire), United Kingdom), Maha Zohra Ladjemi (Paris, France)

**PA3546**
Inhaled corticosteroids induce DNA methylation changes in nasal cells of asthma patients
Alen Faiz (Ultimo (NSW), Australia), Rashad Mahbub, Karosham D. Reddy, Ilse Boudewijn, Gerard H. Koppelman, Maarten Van Den Berge

**PA3547**
ER22/23EK and TTH111I polymorphisms in the glucocorticoid receptor gene among asthma patients with regard to the age of onset
Vladyslava Kachkovska (Sumy, Ukraine), Anna Kovichun, Lyudmyla Prystupa

**PA3548**
Association of DNA methylation with fractional exhaled nitric oxide levels in pediatric asthma

**PA3549**
Inflammatory cellular changes in the large airway of asthma COPD overlap (ACO) patients
Surajit Dey (Launceston, Australia), Wenying Lu, Archana Vijay Gaikwad, Prem Bhattachar, Josie Larby, Collin Chia, Greg Haug, Heinrich C. Weber, Sally Young, Pabuddha S. Pathinayake, Peter A.B. Wark, Mathew Suji Eapen, Sukhwinder Singh Sohal

**PA3550**
IL-33 signal impairment attenuates experimental pulmonary hypertension and fibroblast proliferation in mice
Kathryn Wilson (Glasgow, United Kingdom), Saad Wali, Milton Kodom, David Welsh

**PA3551**
Genome-wide association analysis identifies variants in the chromosome 21 associated with asthma exacerbations in Brazilian adults
Maria Santana (Salvador, Brazil), Helena Teixeira, Hatilla Silva, Mahmoud Abdel-Aziz, Susanne Vijverberg, Simone Hashimoto, Anke Maitland-Van Der Zee, Camilla Figueiredo, Álvaro Cruz, Ryan Costa

**PA3552**
The upper airway microbiome composition is associated with inhaled corticosteroid response in asthma
Javier Perez-Garcia (San Cristóbal de La Laguna, Spain), Mario González Carracedo, Antonio Espuella-Ortiz, José M Hernández-Pérez, Ruperto González-Pérez, Olala Sardon, Elena Martin-González, Elena Mederos-Luis, Paula Corcuera, Inmaculada Sánchez-Machín, Paloma Pozo-Guesdes, Ariel Callero, Javier Korta-Murua, José Antonio Pérez Pérez, Jesús Villar, Maria Pino-Yanes, Fabian Lorenzo-Diaz

**PA3553**
KYNU gene variants and lifestyle factors associated with Asthma in Singapore Chinese.
Praneeth Malipedi (Singapore, Singapore), Fook Tim Chew

**PA3554**
Epigenome-wide association study of paediatric asthma in African Americans
Esther Herrera Luis (La Laguna, Spain), Carlos de la Rosa Báez, Javier Perez-Garcia, Mario Martin-Almeida, Kenneth B. Beckman, Michael A. Lenoir, Luisa N. Borell, Esteban G. Burchard, María Pino-Yanes

**PA3555**
The association of asthma genetic variants with asthma-associated traits reveals molecular networks of eosinophilic asthma
Zaid Elhusseini (Groningen, Netherlands), Judith Vonk, Maarten Van Den Berge, Reinoud Gosens, Gerard Koppelman

**PA3556**
Metagenome-wide cis-expression-Quantitative Trait Loci (eQTL) in association with asthma.
Zachary Chua (Singapore, Singapore), Yang Yie Sio, Fook Tim Chew

**PA3557**
Sputum metagenomics of U-BIOPRED asthma cohort: link to severity and granulocytic inflammation
ALI VERSI (London, United Kingdom), Ivan Fransiskus Xaverius, Mahmoud Abdel-Aziz, Stewart Bates, John Riley, Take Ogawa, Sven-Erik Dahlen, Ratko Djkovanovic, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Sanjay H Chotirmal, Peter Howarth, Ian M Adcock, Kian Fan Chung
PA3561  
**Altered airway epithelial cell landscape in U-BIOPRED severe asthma**
Ian M. Adcock (London, United Kingdom), Ying Shi, Nazanin Zounemat Kermani, Alen Faiz, Kian Fan Chung, Philip M. Hansbro, Xin Yao, Maarten Van Den Berge, Martijn Navijn

PA3562  
**Nasal airway epithelium differentiates between asthma and healthy subjects and identifies clinically relevant asthma endotypes**

PA3563  
**Expression of eosinophil-associated gene signatures in U-BIOPRED severe asthma**
Janice Koranteng (London, United Kingdom), Nazanin Zounemat-Kermani, Yusef Badi, Ian M. Adcock, Charalampos Michaeloudes, Kian Fan Chung, Pankaj Bhavsar

PA3564  
**GSVA analysis of steroid insensitive signatures in severe asthma.**
Piers Dixey (London, United Kingdom), Nazanin Zounemat-Kermani, Katie Raby, Ian Adock, Pankaj Bhavsar, Kian Chung

PA3565  
**Translating host–respiratory virus genetic susceptibility signals to candidate casual genes and pathways to provide therapeutic opportunities**
Christina Shrees (Nottingham, United Kingdom), Kamini Rakkar, Michael Portelli, Nicholas Hannan, Alexander Tarr, Ian Sayers

TP-7 in thematic poster session 402 08:30 - 09:30

Thematic poster: Emerging therapeutic targets, biomarkers and mechanisms of chronic lung disease

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

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

**Chairs:**  
Arlene Glasgow (Dublin 9, Ireland), Killian Hurley (Co. Meath, Ireland)

**PA3566**  
**Elucidation of a novel mechanism of Benralizumab on human immune cells using humanized hIL-3/hGM-CSF/hIL-5 Tg NOG mice**
Satoshi Nunomura (Saga, Japan), Ryoji Ito, Yasuhiro Nanri, Kenji Izuhara

**PA3567**  
**A transcriptomic, metabolic and phenotypic study of the anti-fibrotic effects of PGE2 in IPF lung fibroblasts and macrophages**
Melker Göransson (Mölndal, Sweden), Kristin Wiqvist, Madeleine Ingelsten, Zala Jevnikar, Orsolya Bilkei-Gorzo, Tomas Ottosson, Thomaiss Markou, Julia Lindgren, Toby M Maher, Philip L Molyneaux

**PA3568**  
**Development of PRS-400, an inhaled Jagged-1 Anticalin protein for the treatment of muco-obstructive lung diseases**
Matthias Hagner (Hallbergmoos, Germany), Claudia Wrzuzemberger, Janet Peper-Gabriel, Diana Jaquin, Nicolas Quilitz, Christina Hechinger, Thomas Jaquin, Kristina Heinig, Eva-Maria Hansbauer, Stefan Grüner, Josef Prassler, Rachida Siham Bel Aïba, Jan-Peter Mayer, Richa Bharti, Joe Alexander Wrennall, Robert Terran, Anuradha Ray, Sally Wenzel, Christine Rothe, Shane A. Olwill, Gabriele Matschiner, Athanasios Fysikopoulos

**PA3569**  
**No effect of lidocaine on ciliary beating frequency and pattern of human nasal epithelial cells in vitro**
Sibel T Savas (Bern, Switzerland), Stefan A Tschanz, Philipp Latzlin, Carmen Casaulata, Loretta Müller

**PA3570**  
**Fluorescent PLGA nanocarriers for pulmonary administration**
Aina Areny Balagüeró (Sabadell, Spain), Tanya Tacheva, Donika Ivanova, Tatyana Vlaykova

**PA3571**  
**Involvement of miRNAs as a response to extracorporeal photopheresis in the control of bronchiolitis obliterans syndrome**
Sara Bozzini (Pavia, Italy), Claudia Del Fante, Monica Morosini, Cecilia Bagnara, Hatice Oya Berezhinskii, Sophia Auner, Laura Pandolfi, Matteo Della Zoppa, Cesare Perotti, Konrad Hoetzenecker, Peter Jaksch, Alberto Benazzo, Federica Meloni

**PA3572**  
**ADAM-33 and MMP-8 in bronchial asthma.**
Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Donika Ivanova, Kahan Celik, Anelia Bivolarska, Tatyana Vlaykova

**PA3573**  
**Airway eosinophilic inflammation indicates small airway dysfunction (SAD) in patients with mild stable or at risk for COPD – results from CAPTO-COPD**
Mustafa Abdo (Grosshansdorf, Germany), Frauke Pedersen, Frederik Trinkmann, Felix J.F. Herth, Klaus F. Rabe, Anne Kirsten, Henrik Watz
MUC5AC and MUC5B expression in goblet cells of large airway epithelium in never-smokers, smokers, and COPD patients
Terezia Pincikova (Solna, Sweden), Heta Merikallio, Ioanna Kotortsi, Reza Karimi, Chuan-Xing Li, Elisa Lappi-Blanco, Sara Lindén, Médéa Padra, Åsa Wheelock, Riitta Kaarteenaho, Magnus Sköld

Increased luminal narrowing but reduced wall thickness in the small airways of severe COPD patients
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Dave Singh

COPD-associated changes in lung extracellular matrix

Olfactory Receptors Reduce Inflammation of Lung Epithelial Cells
Daniel Weidinger (Bochum, Germany), Julian Jacobsen, Kaschin Jamal Jameel, Desiree Alisch, Hendrik Uebn, Juliane Kronsbein, Marcus Peters, Sebastian Reuter, Hanns Hoff, Jurgen Knobloch

Basal airway epithelial cells from PCD have distinct proliferative and inflammatory responses
Zofia Varényiová (Prague, Czech Republic), Laura Rojas, Jacquelyn Spano, Václav Capek, Tyson Holmes, Carlos Milla

Cell death and proliferation-related transcripts in lung allograft airway epithelial cells
Olivia Mekhael (Toronto, Canada), Allen Duong, Benjamin Renaud-Picard, Tina Daugaigneault, Ankita Burman, Sajad Mohshelgosha, Stephen Juvet, Tereza Martini

Dynamic microscopic imaging and molecular characterisation of alveolar macrophage drug effects of a labelled inflammasome inhibitor in the human lung
Tom Quinn (Edinburgh (Edinburgh), United Kingdom), Antonella Pellicoro, Charles Lochenie, Emma Duffy, Richard O'Connor, Anruddika Fernando, Hazel Stewart, Erin Gaughan, Ashley Mansell, Christopher Murphy, Adriano Rossi, Kevin Dhalliwal

Prevalence and predictors of airway hyperresponsiveness in asthma, COPD, and overlap-findings from a large real-life population
Marie Lykke Felby (Copenhagen, Denmark), Ditte Klein, Laurits Frøssing, Morten Hvidtfeldt, Uffe Bodtger, Kerstin Romberg, Leif Bjørmer, Ellen Tufvesson, Celeste Porsbjerg

Effect of Bronchial Thermoplasty on Alarmin (S100A7/A8/A9) Expression in Severe Asthma.
Pierre-Alexandre Gagnon (Québec, Canada), Said Assou, Mabrouka Salem, Sabrina Biardel, John De Vos, Noel Lampron, Simon Martel, Louis-Philippe Boulet, Michel Laviolette, Catherine Laprise, Jamila Chakir

Role of urokinase-type plasminogen activator receptor (uPAR) in senescent lung cells
Shyreen Hassibi (London, United Kingdom), Jonathan Baker, Peter Barnes, Louise Donnelly

Effectiveness of an integrated hospital-primary care lifestyle change program in the treatment of obstructive sleep apnea syndrome and obesity
Neus Salord Oleo (Barcelona, Spain), Carolina Alves, Eliseo Prado, Sandra Pérez, Maria Calvo, Roser Torta, M Carmen González, Lidia Rubio, Ana Comabell, Raquel Suárez, Mónica Montserrat, Núria Vilarrasa, Carmen Monasterio

Adherence to Positive Airways Pressure therapy in patients with sleep apnea and comorbid psychiatric diseases.
Anastasios Kallianos (Athens, Greece), Pantelis T. Nikolaidis, Dionyssios Stamatakis, Christina Klamenakou, Nicholas-Tiberio Economou, Paschalis Steiropoulos, Georgia Trakada
PA3588 Association of positive airway pressure adherence with clinical outcomes in patients with type 2 diabetes and obstructive sleep apnea
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, George Stathakis, Christina Ermiidou, Konstantina Lyroni, Eleni Mavroudi, Violeta Moniaki, Ioanna Tsiligiani, Sophia Schiza

PA3589 Outcomes of CPAP therapy in Down syndrome – the population-based DISCOVERY study
Andreas Palm (Uppsala, Sweden), Malin Svensson, Magnus Ekström, Josefien Sundh, Mirjam Ljunggren, Ludger Grote

PA3590 The effect of 2 years of CPAP therapy on metabolic comorbidities in OSAS
Manel Loukil Ben Ali (Nabeul, Tunisia), Hemissi Khaoula, Narjes Abid, Mechaal Ben Ali, Hedia Ghairai

PA3591 Short-term continuous positive air pressure treatment: effects on quality of life and sleep in patients with obstructive sleep apnea
Laima Kondrataviciene (Kaunas, Lithuania), Skaidrius Miliauskas

PA3592 Long term outcomes in CPAP-treated sleep apnea patients: Impact of blood pressure responses after CPAP initiation and treatment adherence
Jean-Louis Pépin (Grenoble, France), Ami-Marie Bocoum, Sébastien Bailly, Marie Joyeux-Faure, Sébastien Baillieux, François Arbib, Clara-Lou Kang, Thi Hong Van Ngo, Pierre Boutouyrie, Renaud Tamisier

PA3593 Nasal polyposis is a risk factor for non-adherence to CPAP – the DISCOVERY study
Caroline Bengtsson (Uppsala, Sweden), Ludger Grote, Mirjam Ljunggren, Magnus Ekström, Andreas Palm

PA3594 A prospective study of factors that predict compliance with Continuous Positive Airway Pressure (CPAP) in patients with Obstructive Sleep Apnoea (OSA)
Qandeel Khan (Nottingham, United Kingdom), Abdisamad Ali, Amy Hough, Manoj Marathe, Imran Hamigi, Andrew Bain, Ajit Thomas

PA3595 Predicting adherence to continuous positive airway pressure in patients with obstructive sleep apnea syndrome through machine learning
Marco António Pacheco Pereira (Paio Pires, Portugal), Ricardo Ribeiro

PA3596 Persistent inspiratory flow limitation during positive airway pressure therapy
Neil Skjodt (Lethbridge (AB), Canada), Ronald S. Platt

PA3597 Telemedicine home CPAP titration and follow-up in the COVID-19 scenario
Jaume Bordas Martinez (barcelona, Spain), Eva Fontanilles Arbones, Neus Salord, Eliseo Prado Gala, María D. Calvo Sánchez, Salud Santos, Carmen Monasterio

PA3598 Efficacy of VAUTO ventilation in OSA patients resistant to CPAP
Pasquale Tondo (Foggia, Italy), Caterina Pronzato, Simona Arcovio, Francesco Fanfulla

PA3599 Auto-BiPAP switch in OSA patients: can it be done successfully?
Pasquale Tondo (Foggia, Italy), Caterina Pronzato, Irene Risi, Nadia D’Artavilla Lupo, Francesco Fanfulla

PA3600 Reboxetine improves pharyngeal collapsibility and respiratory control in obstructive sleep apnoea.
Thomas Altree (Adelaide, Australia), Atqiya Aishah, Kelly Loffler, Ronald Grunstein, Danny Eckert

PA3601 Effect of 5 mg of Oxybutynin and 6 mg of Reboxetine on obstructive sleep apnea severity
Mathieu Berger (Saint Etienne, France), Romane Dussez, Nicola Marchi, Geoffroy Solelhac, Brian Bradley, Gianpaolo Leceiso, José Habu-Rubio, Francesca Siclari, Raphael Heinzer

PA3602 Effectiveness of acetazolamide in patients with moderate obstructive sleep apnea and obesity
Iana Andreieva (Zaporizhia, Ukraine)

PA3603 Effect of sulthiame on cardiopulmonary coupling assessed sleep quality in OSA patients – a RCT
Ding Zou (Gothenburg, Sweden), Karl Theilander, Jan Hedner, Christian Strassberger, Kaj Stenlöf, Ludger Grote

PA3604 Robotic beds for the treatment of positional obstructive sleep apnoea – a randomised cross-over pilot trial
Martina Meszaros (Zurich, Switzerland), Alexander Breuss, Elisabeth Wilhelm, Robert Riener, Malcolm Kohler, Esther I Schwarz

PA3605 Late Breaking Abstract - Sulthiame induced carbonic anhydrase inhibition is associated with improvement of nocturnal oxygenation in OSA patients
Ali M. Komai, Saliha Musovic, Ludger Grote, Kaj Stenlöf, Erik Hoff, Ding Zou, Jan Hedner

TP-9 in thematic poster area
Session 404 08:30 - 09:30
Thematic poster: COPD clinical studies and exacerbations
**Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care, Sleep and breathing disorders

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

**Chairs:** Alexander Mathioudakis (Stockport, United Kingdom), Chair to be confirmed

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**PA3606**
**Digital spacer informed inhaler adherence education: the OUTERSPACE proof-of-concept study in COPD**
Boudewijn Dierick (Groningen, Netherlands), Sandra Been Buck, Titia Klemmeier, Paul Hagedoorn, Susanne Van De Hei, Huib Kerstjens, Janwillem Kocks, Tanja Zijp, Daan Touw, Job Van Boven

**PA3607**
**Mortality outcomes associated with oral corticosteroid use in patients with COPD**
Gary Tse (Singapore, Singapore), David Price, Mona Bafadhel, Alberto Papi, Victoria Carter, Con Ariti, Jiandong Zhou, Derek Skinner, Xiao Xu, Hana Müllerová, Benjamin Emmanuel

**PA3608**
**Ventilation and tissue oxygenation patterns induced by LABA in COPD patients**
Silvia Perez Bogerd (Bruxelles, Belgium), Alain Van Muylem, Emilie Maufroy, Yasmina El.Khloufi, Selim Zengin, Vitalize Faoro, Andrei Malinovschi, Alain Michils

**PA3609**
**Maintenance and reliever therapy with budesonide/formoterol versus fixed dose fluticasone/salmeterol in patients with COPD**
Susan Muiser (Groningen, Netherlands), Kai Imkamp, Dianne Seigers, Nynke Halbersma, Judith Vonk, Bart Luijk, Gert-Jan Braunstahl, Jan Willem Van Den Berg, Bart-Jan Kroesen, Janwillem Kocks, Irene Heijink, Helen Reddel, Huib Kerstjens, Maarten Van Den Berge

**PA3610**
**Effect of benralizumab on recurrent COPD exacerbations**
Dave Singh (Manchester, United Kingdom), Gerard J Criner, Alvar Agusti, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saravia, Yue Song, Idilir Licaj, Maria Jison, Ubaldio J Martin, Ioannis Psallidas

**PA3611**
**Lack of Association between Inhaled Corticosteroid Use and the Risk of Future Exacerbation in Patients with GOLD Group A Chronic Obstructive Pulmonary Disease**
Seong Yong Lim (Seoul, Republic of Korea), Hye Yun Park, Sun Hye Shin, Deog Kyeom Kim, Sang-Heon Kim, Tae Rim Shin, Ki-Suck Jung, Kwang Ha Yoo, Ki-Eun Hwang, Yong Suk Jo

**PA3612**
**Inhaled corticosteroids and the risk of new-onset arterial hypertension in patients with chronic obstructive pulmonary disease**
Howraman Meteran (VALBY, Denmark), Pradeesh Sivapalan, Josefín Eklöf, Mohamad Isam Saeed, Alexander Jordan, Jens-Ulrik Jensen

**PA3613**
**Sufficient inspiratory effort for a Dry Powder Inhaler - do we have to measure it, or can we observe it? Post hoc analysis of the PIFotal study**
Lars Dijk (Groningen, Netherlands), Marika Leving, Sinthia Bosnie-Anticevich, Joyce Van Cooten, Jaime Correia De Sousa, Biljana Cvetkovski, Richard Dekhuijzen, Marina Garcia Pardo, Asparuh Gardev, Radoslaw Gawlik, Iris Van Der Ham, Ymke Jansen, Federico Lavorini, Tiago Maricoto, Kirsten Schuttel, Niloouq Stoker, Ioanna Tsiligianni, Omar Usmani, Janwillem Kocks

**PA3614**
**Risk for exacerbation, hospitalization and mortality in Global Initiative for Chronic Obstructive Lung Disease group B patients with and without exacerbations: a cohort study**
Lowie E.G.W. Vanfleteren (Gothenburg, Sweden), Linnea Holmstrand, Anne Lindberg, Caddie Zhou, Fredrik Nyberg, Caroline Stridsman

**PA3615**
**Recombinant AAT-Fc fusion protein INBRX-101 achieves normal serum AAT levels in patients with alpha-1 antitrypsin deficiency (AA TD)**
Andrew Veale (Auckland, New Zealand), Humam Farah, Ravi Mahadeva, Michelle Baker, Brooks Kuhn, Alexandra Cole, Catharina Chang, Cynthia Brown, Michael Campos, James Kalabas, Terri Boyea, Carson Veldstra, Vasily Andrianov, Sharvari Bhagwat, Brendan P Eckelman, Jorge Loscano, Mark Brantly

**PA3616**
**Efficacy and safety of ICS/LABA/LAMA FDCs in COPD: a network meta-analysis**
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Mario Cazzola, Stefano Verri, Francesca Camardelli

**PA3617**
**Blood, nasal and airway immune responses to SARS-COV-2 vaccination in COPD patients and healthy subjects**
Thomas Southworth (Manchester, United Kingdom), Natalie Jackson, Dave Singh

**PA3618**
**TriOptimize IX: Real-world improvement in COPD symptoms and lung function by extrafine single-inhaler triple therapy (efSITT)**
Frederik Trinkmann (Heidelberg, Germany), Sanaz Bahari Javan, Carl-Peter Créée, Valentina Bogoevska, Christian Gessner

**PA3619**
**Adherence to umeclidinium/vilanterol versus inhaled corticosteroids/long-acting β2-agonist in patients with chronic obstructive pulmonary disease in England**
Alexandrosz Czira (Brentford, United Kingdom), Gema Requena, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila
SHORT-TERM OXYGEN THERAPY OUTCOMES IN COPD
Thibaud Soumagne (Paris, France), François Maltais, François Corbeil, Bruno Paradis, Marc Balzan, Paula Simao, Araceli Abad Fernandez, Richard Lecours, Sarah Bernard, Yves Lacasse

COPD clinical course in patient with Gln27Glu polymorphism of ADRB2 gene
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytriiev

How does Arg16Gly polymorphism affect pulmonary function and treatment response in COPD patients?
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytriiev

EVELUT: dyspnoea and symptom burden in COPD patients switching from LABA/ICS to LAMA/LABA or LAMA/LABA/ICS
Roland Buhl (Mainz, Germany), Michael Dreher, Muriel Mattiucci-Guehlke, Sebastian Eckhardt, Christian Taube, Claus Vogelmeier

Relationship between severity of airflow obstruction and GOLD classification in COPD patients
Nataša Karamarković Lazarušić (Zagreb, Croatia), Bojana Butorac Petanjek, Latinka Basara, Melita Jerić, Gordana Pavliša

Late Breaking Abstract - Evaluating multiple eosinophil measurements when stepping up to ICS/LAMA/LABA triple therapy in patients with COPD: a post-hoc analysis of ETHOS
Dave Singh (Manchester, United Kingdom), Mona Bafadhel, John R Hurst, Patrick Darken, Mehul Patel

Studio - online Session 405 08:45 - 09:15
News from the Studio: Day 3 highlights not to miss
Chairs: Pierantonio Laveneziana (Paris, France), Emer Kelly (Dublin 4, Ireland)
08:45 Discussion and Q&A
All Speakers

Studio - online Session 406 09:30 - 11:00
Language session: Chinese Programme 2022
A joint ERS/CTS session
Aims: To present and discuss the new advances in respiratory medicine presented by experienced speakers from the European Respiratory Society leadership and Chinese leaders in respiratory medicine; to present an overview of hot respiratory disease topics in Europe and China.
This session will be delivered in English and will not be translated in Chinese.
Method(s): Epidemiology Public health Respiratory intensive care
Tag(s): COVID
Chairs: Jieming Qu (Shanghai, China), Tobias Welte (Hannover, Germany), Georgia Hardavella (Athens, Greece)
09:30 Early interventions of lung cancer
Nanshan Zhong (Guangzhou (Guangdong), China)
09:45 Status and future perspective of biomarkers in early detection of lung cancer
Torsten Gerriet Blum (Berlin, Germany)
10:00 Clinical progress in critical care of pulmonary medicine in China
Li-xin Xie (Beijing, China)
10:15 New insights in the pathophysiology of ARDS
Lieuwe D.J. Bos (Amsterdam, Netherlands)
10:30 Discussion and Q&A
All Speakers

8A - live streamed Session 407 09:30 - 11:00
State of the art session: Sleep and breathing disorders
Myth or reality: is obstructive sleep apnoea really critical for cardiovascular complications? Current evidence about pathophysiology, clinical implications and future perspectives
Aims: to summarise the current knowledge of the impact of obstructive sleep apnoea (OSA) on cardiovascular complications; to explain the link between the hypoxic burden, associated intracellular mechanisms and cardiovascular comorbidities; to describe critical endpoints of OSA including cardiovascular morbidity, mortality and patient-related outcome measures; to summarise current evidence of the effects of positive airway pressure (PAP) treatment on cardiovascular endpoints; to critically discuss the limitations and strengths of current trials; to define future research needs.

Disease(s): Sleep and breathing disorders

Method(s): General respiratory patient care, Physiology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Scientist (basic, translational)

Chairs: Sophia E. Schiza (Heraklion, Greece), Winfried J. Randerath (Solingen, Germany)

09:30 The hypoxic burden and intracellular mechanisms
Silke Ryan (Dublin, Ireland) 3632

09:45 What endpoints really matter? The clinical relevance of morbidity, mortality and patient-related outcome measures
G. Parati (Milano (MI), Italy) 3633

10:00 Appraisal and critical review of the effects of PAP treatment on cardiovascular endpoints
Anita Simonds (London, United Kingdom) 3634

10:15 The future of sleep science: what are the correct targets, outcome parameters, innovative studies and methodologies?
Raphael Heinzer (Lausanne, Switzerland) 3635

10:30 Discussion and Q&A
All Speakers 3636

8B - live streamed Session 408 09:30 - 11:00

Journal session: Respiratory strategies for COVID-19, diagnostic strategies for venous thromboembolism and screening for COPD

Highlights from JAMA

Aims: to provide an update on noninvasive respiratory strategies for acute hypoxemia in COVID-19; to provide an update on screening for COPD; to provide an update on diagnostic strategies for venous thromboembolism.

Disease(s): Airway diseases, Respiratory critical care

Method(s): Epidemiology, General respiratory patient care, Respiratory intensive care

Tag(s): Clinical

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

Chairs: Olivier Sitbon (Le Kremlin-Bicêtre, France), Kristin Walter (Chicago, United States)

09:30 Noninvasive diagnostic strategies for acute hypoxemia in COVID-19
Gavin D Perkins (Birmingham (West Midlands), United Kingdom) 3637

09:45 Screening for COPD
John R Hurst (London, United Kingdom) 3638

10:00 Diagnostic strategies for venous thromboembolism
Yonathan Freund (Paris, France) 3639

10:15 Discussion and Q&A
All Speakers 3640

8C - live streamed Session 409 09:30 - 11:00

Clinical cases: Lungs on fire: Paediatric respiratory diseases

Aims: To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.
**Disease(s):** Paediatric respiratory diseases  
**Tag(s):** Clinical  
**Target audience:** Paediatrician, General practitioner, Physician in Pulmonary Training, Clinical researcher, Nurse, Thoracic oncologist, Radiologist, Respiratory physiotherapist, Respiratory therapist  
**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)  
**Discussants:** Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)  

**8G - live streamed**  
Session 410  
**09:30 - 11:00**  
Hot topics: Thoracic surgery and COVID-19 pandemic: an unexpected intimate relationship  
**Aims:** to report the incidence and outcome of the complications of COVID-19 that require thoracic surgery.  
**Disease(s):** Respiratory critical care, Respiratory infections, Thoracic oncology  
**Method(s):** Pulmonary rehabilitation, Surgery, Transplantation  
**Tag(s):** COVID  
**Target audience:** Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist  
**Chairs:** Carlos Robalo Cordeiro (Coimbra, Portugal), Federica Meloni (Pavia (PV), Italy)  

**09:30**  
Defining appropriate surgical management of thoracic complications  
Isabelle Opitz (Zurich, Switzerland)  

**09:45**  
Tracheal complications after prolonged intubation: risk factors, surgical indications and outcome  
Marco Lucchi (Pisa (PI), Italy)  

**10:00**  
Peter Jaksch (Wien, Austria)  

**10:15**  
The positive downside: unveiling of unknown chest malignancies.  
Stefano Elia (Roma (RM), Italy)  

**10:30**  
Discussion and Q&A  
All Speakers  

**8H - live streamed**  
Session 411  
**09:30 - 11:00**  
Primary care session: Asthma diagnosis: new and old approaches to increase primary care capability  
**Aims:** to discuss the latest approaches for the difficult task of diagnosing asthma in clinical practice.  
**Disease(s):** Airway diseases  
**Method(s):** General respiratory patient care, Pulmonary function testing  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, General practitioner, Nurse, Physician in Pulmonary Training  
**Chairs:** Thierry Troosters (Leuven, Belgium), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Monica Kraft (New York, United States)  

**09:30**  
The clues for asthma diagnosis in primary care  
Janwillem W. H. Kocks (Groningen, Netherlands)  

**09:45**  
New and old tests for asthma diagnosis in primary care: from peak-flow to FeNO  
David Lo (Leicester, United Kingdom)
Session 412  09:45 - 11:00
Oral presentation: Cellular involvement in lung diseases

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

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

**Chairs:**  Agnes Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)

**OA3655**  Extracellular vesicles propagate cellular senescence by transferring miR34a in airway epithelial cells
Justine Devulder (London, United Kingdom), Jonathan R. Baker, Lina Odyvist, Louise E. Donnelly, Peter J. Barnes

**OA3656**  SFRP1-linked to extracellular vesicles promotes pulmonary fibrosis
Olivier Burgy (Dijon, France), Christoph H. Mayr, Beatrix Ballester Llobell, Arunima Sengupta, Sabrina Loriod, Ali Önder Yıldırım, Mareike Lehmann, Herbert B. Schiller, Gerald Burgstaller, Melanie Königshoff

**OA3657**  Potential prothrombotic role of extracellular vesicles during exacerbation of chronic obstructive pulmonary disease
Erica Bazzan (Padova (PD), Italy), Tommaso Neri, Dario Nieri, Federica Ceriegi, Camilla Morani, Alessandro Celi

**OA3658**  MSC extracellular vesicles ameliorate ARDS via activation of mitochondrial biogenesis
Catherine McClintock (Bangor, United Kingdom), Johnatas Silva, Declan Doherty, Cecilia O’Kane, Daniel Mc Auley, Anna Krasnodembskaya

**OA3659**  Characterization of Mesenchymal Cell from BAL of post COVID-19 patient with fibrosis
Matteo Della Zoppa (Pavia, Italy), Maria Antonietta Avanzini, Sara Bozzini, Stefania Croce, Cecilia Bagnera, Chiara Valsecchi, Laura Pandolfi, Elisa Lenta, Sara Lettieri, Valentina Vertui, Laura Saracino, Federica Meloni

**OA3660**  Mitochondrial dysfunction features in lung resident mesenchymal stem cells from patients with Idiopathic Pulmonary Fibrosis
Aina Martín Medina (Palma, Spain), Joan Truyols-Vives, Linda Elowson, Andreas Jahn, Carlos Rio, Amanda Iglesias, Ana Montes, Julio Velasco, Maria Molina-Molina, Gunilla Westergren-Thorsson, Josep Mercader-Barceló, Ernest Sala-Llinas

**OA3661**  LSC - 2022 - Biomarker identification to assess effects of bone-marrow derived mesenchymal stromal cell-therapy in emphysema through immune profiling
Padmini P. S. J. Khedoe (Den Haag, Netherlands), Li Jia, Na Li, Pieter S. Hiemstra, Frits Koning, Jan Stolk

**OA3662**  Mesenchymal Stem Cells derived Biospheres (BS) as potential therapeutic agent in lung disease like Idiopathic Pulmonary Fibrosis (IPF)
Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Iglesias, Javier Pierola, Orokia Clara Traore Diaby, Ernest Sala Llinas

**OA3663**  Combined Cell Therapy and Anticoagulants as a treatment for an in vivo model of Acute Lung Injury
Marta Camprubi-Rimblas (Molins de Rei, Spain), Aina Areyne-Balagueró, Elena Campaña-Duel, Luis Morales-Quinteros, Adrián Ceccato, Lluís Blanch, Antonio Artigas

**OA3664**  Late Breaking Abstract - Human induced pluripotent stem cell-derived alveolar type 2 cells mature at air-liquid interface and respond to airborne stimuli
Kristine Abo (Cambridge, United States), Andrew Wilson

Session 413  09:45 - 11:00
Mini symposium: State-of-the-art in the home mechanical ventilation

**Aims:** to state main components orienting new developments in the field of home mechanical ventilation (including hypoxia, hypercapnia, secondary symptoms such as weak cough and stagnation of airway secretion leading to diminished health related quality of life (HRQL) and increased risk of pneumonia).
Disease(s) : Sleep and breathing disorders
Method(s) : Epidemiology  General respiratory patient care  Pulmonary function testing
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Respiratory therapist
Chairs : Jellien Makonga-Braaksma (Woudenberg, Netherlands), Peter J. Wijkstra (Groningen, Netherlands)

8L Session 414  09:45 - 11:00
Oral presentation: Recent advances in biological treatments for asthma

Disease(s) : Airway diseases
Method(s) : General respiratory patient care  Physiology  Epidemiology

Chairs : Manali Mukherjee (Hamilton (ON), Canada), Apostolos Bossios (Stockholm, Sweden)

OA3670 Efficacy of tezepelumab in patients with severe, uncontrolled asthma and low blood eosinophil counts not receiving maintenance oral corticosteroids
Andrew Menzies-Gow (London, United Kingdom), Bill Cook, Gene Colice, Åsa Hellqvist, Jean Pierre Llanos-Ackert, Christopher S. Ambrose

OA3671 Prevalence and impact of hypereosinophilia in severe asthma treated by dupilumab: an observational analysis
Stephanie Everaerts (Leuven, Belgium), Bart Hilvering, Elis Weersink

OA3672 Dupilumab improved lung function and reduces exacerbations in patients with 1, 2, or 3 prior exacerbations: TRAVERSE
Jorge Fernando Maspéro (Ciudad Autónoma Buenos Aires, Argentina), Jonathan Corren, Mario Castro, Jorge F Maspéro, Marc Humbert, David M G Halpin, Arman Altincatal, Nami Pandit-Abid, Xavier Soler, Shahid Siddiqui, Juby A Jacob-Nara, Yamo Deniz, Paul J Rowe

OA3673 Benralizumab attenuates blood and airway eosinophilia in severe asthmatics with inadequate response to anti-IL-5 neutralizing antibodies
Manali Mukherjee (Hamilton (ON), Canada), Anurag Bhalla, Carmen Venegas-Garrido, Chymna Huang, Katherine Radford, Melanie Kjarsgaard, Sylvina Lauks, Kiho Son, Nicola Lavigne, Roma Sehmi, Paul O'Byrne, Parameswaran Nair

OA3674 Past smoking does not influence response to biologic therapy in patients with severe asthma
Mohammed Rahman (Portsmouth, United Kingdom), Paddy Dennison, Adnan Azim, Anna Freeman, Hans Michael Haitchi, Ramesh Kurukulaaratchy, Hitasha Rupani

OA3675 Relation between reduction in fractional exhaled nitric oxide and efficacy in asthma patients treated with dupilumab
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Yamo Deniz, Thomas Casale, Jonathan Corren, Mark Fitzgerald, Nadia Daizadeh, Alexandre Jagerschmidt, Myles Dillon, Rebecca Gall, Nami Pandit-Abid, Shahid Siddiqui, Juby A Jacob-Nara, Paul J Rowe, William W. Busse

OA3676 On-treatment clinical remission with tezepelumab among patients with severe, uncontrolled asthma in the phase 3 NAVIGATOR study
Mario Castro (Kansas City, United States), Christopher S Ambrose, Gene Colice, Stephanie L Roseti, Kamil Kmita, Bill Cook, Neil Martin, Jean-Pierre Llanos-Ackert, Andrew Menzies-Gow

OA3677 Clinical response and remission in patients with severe asthma treated with biologic treatment: Findings from the nationwide Danish Severe Asthma Registry
Celeste Michala Porsbjerg (Copenhagen, Denmark), Susanne Hansen, Anna Von Buelow, Marianne Baastrup Soendergaard, Linda Makowska Rasmussen, Claus Rikard Johnsen, Truls Sylven Ingebrigtsen, Kjell Erik Julius Haakansson, Karin Dahl Assing, Sofie Lock Johansson, Johannes Schmid, Anne-Sofie Bjerrum, Ole Hilberg, Charlotte Ulrik
Effect of tezepelumab on a composite of severe asthma exacerbations and acute worsening events, CompEx, in the phase 3 NAVIGATOR study
Guy Brusselle (Ghent, Belgium), Neil Martin, Sandhia Ponnarambil, Gillian Hunter, Åsa Hellqvist, Malin Fagerås, Carla A Da Silva

Late Breaking Abstract - Mepolizumab effectiveness in severe asthma supported by federated analysis of European SHARP data

Discussion
All Speakers

8M  Session 415  09:45 - 11:00
Mini symposium: Diagnosis and management of pneumonitis in lung cancer systemic therapy
Immune-related and targeted therapy toxicities
Aims: to provide an overview of the incidence and specific patterns of lung toxicity associated with immune-checkpoint inhibitors, molecular targeted agents and radiation used for lung cancer therapy; to cover a general discussion of the clinical presentation, pathogenesis, diagnosis, differential diagnosis and treatment of pulmonary toxicity associated with the use of antineoplastic agents; to provide a review of potential biomarkers that could guide our clinical reasoning in immune-related toxicities.

Disease(s): Thoracic oncology
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist
Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

09:45  Immune-checkpoint inhibitors: diagnosis and management of pneumonitis in lung cancer patients
Jacques Cadranel (Paris Cedex 20, France)

10:00  Pulmonary toxicity associated with antineoplastic therapy: Molecular targeted agents
Maria Gabriela Oliveira Fernandes (Matosinhos, Portugal)

10:15  Pneumonitis and radiotherapy: diagnosis and management
Katherina Bernadette Sreter (Zagreb, Croatia)

10:30  Discussion and Q&A
All Speakers

10:30-11:15
INDUSTRY SKILLS LAB WORKSHOP  SEE PAGE 1

8D  Session 418  10:40 - 13:00
Skills workshop: SW8 Thoracic ultrasound
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: Najib M. Rahman (Oxford, United Kingdom)

10:40  The normal thoracic cavity
Rachelle Asciak (SIGGIEWI, Malta), Beenish Iqbal (London, United Kingdom)

11:10  Pleural effusion and/or pleural thickening
Giovanni Volpicelli (Torno (TO), Italy), Morten Bendixen (Skejby, Denmark)
**Guidelines session: ERS clinical practice guidelines for the diagnosis of asthma in adults**

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Physician in Pulmonary Training, Clinical researcher

**Chairs:** Andrew Bush (London, United Kingdom)

**11:15 Discussion and Q&A**

Omar S. Usmani (London, United Kingdom), Renaud Louis (Liège, Belgium)

**Symposium: The many faces of central sleep apnoea and hypoventilation syndromes**

**Aims:** to discuss the phenotypes of central sleep apnoea and the impact of biomarkers on outcomes, new pathophysiological insights and consecutive therapeutic options for obesity hypoventilation, the strengths and limitations of positive airway pressure during the lifetime and the relevance of comitant pulmonary disease with not only obstructive, but also central, sleep apnoea.

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

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

**Tag(s):** Clinical

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

**Chairs:** Sophia E. Schiza (Heraklion, Greece), Winfried J. Randerath (Solingen, Germany)

**11:15 Phenotyping and prognostic markers of central sleep apnoea: is treatment of central sleep apnoea necessary?**

Winfried J. Randerath (Solingen, Germany)

**11:30 Opioid-induced central sleep apnoea: exceptional or epidemic?**

Shahrokh Javaheri (Cincinnati, United States)

**11:45 New perspectives in obesity hypoventilation: from pathophysiology to treatment**

Jean-Louis Pépin (Grenoble, France)

**12:00 Continuous positive airway pressure and non-invasive ventilation in hypoventilation syndromes from childhood to adulthood**

Marieke L. Duiverman (Groningen, Netherlands)

**Discussion and Q&A**

All Speakers

**Clinical cases: Clinical challenges beyond guidelines**

**Aims:** to describe the controversial aspects of the current guidelines for the management of adults with COVID-19 in the intensive care unit, clinical standards for tuberculosis infection, optimal follow-up after acute pulmonary embolism and imaging of pulmonary embolism in pregnancy; 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):** Respiratory critical care, Respiratory infections, Pulmonary vascular diseases

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

**Tag(s):** Clinical

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

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), Kristin Walter (Chicago, United States)
### State of the art session: Paediatric respiratory diseases

**Aims:** to provide clinicians with practical take-home messages regarding the key management and health policy issues related to the respiratory health of children and young people; to provide an update on four important topics in paediatric respiratory medicine.

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

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

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<td>Kuluma Faila (France)</td>
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<td>Diagnosis and management of respiratory infections in children and young adults with neurological impairment</td>
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<td>11:35</td>
<td>Paediatric long-term noninvasive ventilation</td>
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<td>Paediatric interventional bronchoscopy</td>
<td>Dirk Schramm (Düsseldorf, Germany)</td>
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<td>12:05</td>
<td>Respiratory function monitoring in neonatal and paediatric intensive care units</td>
<td>David Tingay (Melbourne (VIC), Australia)</td>
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<td>12:20</td>
<td>Discussion and Q&amp;A</td>
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Primary care session: Forgotten issues in chronic obstructive pulmonary disease: a primary care perspective

**Aims:** to increase the knowledge and motivation of healthcare professionals in relation to issues and interventions besides pharmacological treatment from a primary care perspective; to discuss best approaches of assessment and treatment of mental disorders that are common in patients with COPD; to raise awareness on a need of rehabilitation programmes that currently are very scarce and inaccessible for many COPD patients, especially in low resource settings where telerehabilitation approaches may be unreliable, and remote options need to be realistic; to discuss the effect of COPD on sexual satisfaction that is often underappreciated in clinical practice, and improved information and communication regarding sexual health is needed; to start a discussion on early integrated palliative care for COPD patients that should be developed in primary care.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient, Respiratory physiotherapist

**Chairs:** Thierry Troosters (Leuven, Belgium), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)
**OA3726**
Development of an international curriculum for respiratory nurses (ICRN): A global needs survey
Georgia Narsavage (PUNTA GORDA, United States), Andreja Šajnić, Carol Kelly, Sheree Smith, Nicola Roberts, Karen Heslop-Marshall, Malin Axelsson, Miguel Padilha, Carme Hernández, Bridget Murray, Betty Poot

**OA3727**
Steps in the development of an international curriculum for respiratory nurses (ICRN): A Delphi Process plan to standardise levels of respiratory nursing education
Andreja Sajnic (Zagreb, Croatia), Georgia Narsavage, Carol Kelly, Karen Heslop-Marshall, José Miguel Padilha, Bridget Murray, Malin Axelsson, Carme Hernández, Betty Poot, Nicola Roberts, Helle Marie Christensen, Marco Clari, Sheree Smith

**OA3728**
The International Coalition of Respiratory Nurses (ICRN): development of a curriculum towards advanced nursing education and improvements in care. Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Joanne King, Iain Wheatley, Maria Parsonage, Sarah Kearney, Alison Hughes

**OA3729**
INTERNATIONAL CURRICULUM FOR NURSES WORKING WITH RESPIRATORY PATIENTS - WHY DO WE NEED IT? A PORTUGUESE PERSPECTIVE
José Miguel Dos Santos Castro Padilha (Porto, Portugal), Rui Pedro Silva, Fernando Macedo, Luís Gaspar, Belmiro Rocha

**OA3730**
Developing an International Curriculum for respiratory nurses and the need for a curriculum in Turkey
Merve Kıymaç Sarı (Şişli, Turkey), Raşşan Çevik Akyıl, Gamze Oğuz, Zehra Durna

**OA3731**
An International Curriculum for Respiratory Nurses (ICRN): Supporting standardized respiratory nursing education in Croatia
Andreja Sajnic (Zagreb, Croatia), Georgia Narsavage, Sandra Karabatic, Tanja Zovko, Irena Godic, Aleksandra Trupkovic, Tihana Odobasic Palkovic, Maja Majeric, Azra Hodzic, Ivana Lalic Cickovic, Romana Palić, Nikolina Dodlek, Jasminka Milicevic, Mario Gazic, Ana Ljubas, Marko Jakopović

**OA3732**
Nurses specialized through higher education in asthma, allergy and COPD. Experiences from a Swedish perspective - A winning concept for the clinic
Caroline Stridsman (Luleå, Sweden), Ann-Britt Zakrisson, Therese Sterner

**OA3733**
An exploration of the experiences of respiratory clinical nurse specialists (CNS) and advance nurse practitioners (ANP) in Irish healthcare settings
Bridget Murray (DUBLIN, Ireland)

**OA3734**
How confident are nursing students about their respiratory knowledge and assessment skills?
Nicola J. Roberts (Edinburgh, United Kingdom), Maria Renwick, Lindsay Welch, Kate Lippiett, Carol Kelly

**OA3735**
Discussion
All Speakers
Frequency and severity of respiratory infections prior to COPD diagnosis and risk of subsequent post-diagnosis COPD exacerbations and mortality: a UK routine health care data study
Hannah Whittaker (London, United Kingdom), Clementine Nordon, Annalisa Rubino, Tamsin Morris, Yang Xu, Enrico De Negris, Hana Müllerová, Jennifer Quint

COVID-19 real-world data (RWD) insights regarding exacerbations and serum Eosinophil levels in Asthma and Chronic Obstructive Pulmonary Disease (COPD).
Michael Cushion (Biggleswade, United Kingdom)

Lung development genes, adult lung function and cardiovascular comorbidities
Mohammad Talaei Pashiri (London, United Kingdom), Laura Portas, Nay Aung, Matthew Hind, Charlotte Dean, Cosetta Minelli, Seif O. Shaheen

Factors associated with specific causes of death in a primary care COPD population in England
Hannah Whittaker (London, United Kingdom), Kieran Rothnie, Jennifer Quint

Late Breaking Abstract - Beyond direct costs: Individual and societal burden of asthma in young adults
Kjell Erik Julius Håkansson (København N, Denmark), Anders Løkke, Rikke Ibsen, Ole Hilberg, Vibeke Backer, Charlotte Suppli Ulrik

The antimicrobial resistome in bronchiectasis: an international multicentre study
Michéal Mac Aogáin (Dublin, Ireland), Fransiskus Xaverius Ivan, Tavleen Jaggi, Holly R. Keir, Alison J. Dicker, Albert Lim Yick Hou, Mao Em Poh, Mariko Siyue Koh, Ong Thun How, Augustine Tee, Teck Boon Low, John Arputhan Abisheganaden, Francesco Blasi, Stefano Aliberti, James D. Chalmers, Sanjay H. Chotirmall

The role of the NLRP3 inflammasome in mucociliary clearance in bronchiectasis: The EMBARC-BRIDGE study
Lidia Perea Soriano (Barcelona, Spain), Mathieu Bottier, Erin Cant, Hollian Richardson, Alison J Dicker, Morven Shuttleworth, Holly R Keir, Yan Hui Giam, Simon Finch, Jeffrey T J Huang, Michal Shteinberg, Pieter C Goeminne, Eva Polverino, Josje Altenburg, Francesco Blasi, Tobias Welte, Stefano Aliberti, Oriol Sibila, James D Chalmers, Amelia Shoemark

Characteristics of frequent exacerbators in the US Bronchiectasis and NTM Research Registry (BRR)
Nicole Lapinel (New Orleans, United States), Radmila Choate, Timothy Aksamit, Joseph Feliciano, Kevin Winthrop, Andreas Schmid, Jasmanda Wu, Mariam Hassan, Sebastian Fucile, Mark Metersky

Neisseria species as pathobionts in bronchiectasis.

Genome sequencing reveals underdiagnosis of primary ciliary dyskinesia in bronchiectasis
Amelia Shoemark (Dundee (Angus), United Kingdom), Helen Griffin, Gabrielle Wheway, Claire Hogg, Jane S Lucas, Carme Camps, Jenny Taylor, Mary Carroll, Micheal R Loebinger, James D Chalmers, Deborah Morris-Rosendahl, Hannah M Mitchison, Anthony De Soyza

Implementing tablet-based ototoxicity screening in adult respiratory patients
Jamie Cheong (London, United Kingdom), Shereen Boreland, Barbara Belkarty, Andrew Jones, Imogen Felton, Emer-Fong Ukor, Janet Stowell, Ricardo Jose, Susan Madge, Julie Wilkins, Emily Frost, Presanna Premachandra, Michael Loebinger, Francis Drobniakiewski, Nicholas Simmonds, Anand Shah

Dysregulation of the microbial 'gut-lung' axis in bronchiectasis
**OA3754**

**Longitudinal analysis of bronchiectasis exacerbations (BEx) in patients from the US Bronchiectasis and NTM Research Registry (BRR)**

Timothy Aksamit (Rochester, United States), Nicole Lapinel, Radmila Choate, Joseph Feliciano, Kevin Winthrop, Andreas Schmid, Jasmanda Wu, Mariam Hassan, Sebastian Fucile, Mark Metersky

**OA3755**

**The ROSE criteria for coexistent COPD-bronchiectasis: association with future exacerbations and death**

Wojciech Dolliver (BROOKLINE, United States), Wei Wang, Jose Orejas, Diego Maselli, Andrew Yen, Kendra Young, Gregory Kinney, Michael Cho, Raul San José Estépar, , Alejandro Diaz

**OA3756**

**Late Breaking Abstract - Bronchiectasis in AATD: initial report of EARCO**

Robert Andrew Stockley (Birmingham (West Midlands), United Kingdom), Anita Pye, Alice Turner

**OA3757**

**Discussion**

All Speakers

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**Session 433 11:15 - 12:30**

**Oral presentation: Innovation in thoracic surgery**

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

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

**Chairs:** Marcello Migliore (Catania (CT), Italy), Marco Nardini (Uxbridge, United Kingdom)

**OA3758**

**The risk of postoperative pulmonary complications in lung resection candidates with normal values of FEV1 and DLCO – a subgroup analysis from a prospective multicenter study.**

Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Michal Svoboda, Monika Bratova, Ladislav Mitas, Zdenek Merta, Andrej Mazur, Pavel Homolka, Zdenek Chovanec, Lyle J. Olson

**OA3759**

**Prognostic significance of N1 nodal metastasis patterns in surgically treated patients with pT1-2 non-small cell lung cancer**

Güntüg Batihan (Izmir, Turkey), Kenan Can Ceylan, Ahmet Üçvet, Seyda Örs Kaya, Serkan Yazgan

**OA3760**

**Analysis of Flow and Pressure with an in-vitro model of a lung while a drainage system delivers a varying suction pressure**

Frans H.C. De Jongh (Enschede, Netherlands), Rejiar Asad, Pacal Steenvoorde, Ron Speekenbrink, Kees Venner, Michiel Wagenaar

**OA3761**

**Extended Pleurectomy/Decortication in Malignant Pleural Mesothelioma: preceding or following chemotherapy? Perioperative data and short-term outcomes of a single Institution**

Giulia Maria Stella (Pavia (PV), Italy), Francesco Falanga, Chandra Bortolotto, Olga Oneta, Francesco Agustoni, Patrizia Morbini, Laura Saracino, Stefano Tomaselli, Pietro Rinaldi, Cristiano Primicieri

**OA3762**

**Electromagnetic navigation bronchoscopy localization of small lung nodules previous to thoracoscopic resection**

Alessio Vincenzo Mariolo (Paris, France), Guillaume Boddart, Emmanuel Brian, Madalina Grigoriou, Dominique Gossot, Agathe Seguin-Givelet

**OA3763**

**Comparison of survival after extrapleural pneumonectomy versus pleurectomy/decortication for malignant pleural mesothelioma in the era of macroscopic complete resection: A meta-analysis**

Kalliopi Athanassiadi (Athens, Greece), Anna Karamolegkou, Evangelos Tatsios, Prokopis-Andreas Zotos, Kyriakos Spiliopoulos, Thanos Athanasiou, Dimitrios Magouliotis

**OA3764**

**Influence of the Surgeons’ Seniority in the Quality of Life of Patients with Prolonged Air Leaks (PAL) after Lobectomy for Lung Cancer**

Luca Bertolaccini (Milan, Italy), Oriana Ciani, Elena Prisciandaro, Marco Lucchi, Francesco Zaraca, Roberto Crisci, Rosanna Tarricone, Lorenzo Spaggiari

**OA3765**

**Local experience of surgical management of tracheal stenosis**

Joana Borges (Coimbra, Portugal), Luis Graça, Sara Cunha, António Jorge Ferreira, João José Bernardo

**OA3766**

**Evaluation of prognostic factors for patients who underwent pneumonectomy for non-small cell lung cancer**

Güntüg Batihan (Izmir, Turkey), Kenan Can Ceylan, Seyda Örs Kaya

**OA3767**

**Discussion**

All Speakers

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**Session 434 12:45 - 14:00**

**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), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

12:45 Introduction
Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands) 3768

12:50 Spirometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Rachel Ong-Salvador (Amsterdam, Netherlands) 3769

13:00 Oscillometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom) 3770

13:20 Case discussion (Spirometry paediatric, adult, oscillometry, and teaching/coaching perspectives)
Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico), Chung-Wai Chow (Toronto (ON), Canada), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands) 3771

8N Session 440 12:45 - 14:00

Oral presentation: Lung or long COVID: emerging insights into COVID-19 mechanisms

Disease(s): Airway diseases Interstitial lung diseases

Method(s): Cell and molecular biology Imaging Public health General respiratory patient care Respiratory intensive care

Chairs: Gwenda Vasse (Groningen, Netherlands), Chair to be confirmed

OA3772 Blood monocyte subsets to characterize and differentiate active SARS-CoV-2 infection from convalescent patients
Elżbieta Rutkowska (Warsaw, Poland), Iwona Kwiecień, Agata Raniszewska, Piotr Rzepecki, Krzysztof Klos, Andrzej Chciałowski

OA3773 LSC - 2022 - Alveolar macrophages from people with severe eosinophilic asthma show differential antiviral responses to human rhinovirus 16 and SARS-CoV-2.
Andrew Hearne (London, United Kingdom), Paniz Khooshemehari, Varsha Kanabar-Raivadera, Kate Poulton, Rocio Martinez Nunez, David Jackson

OA3774 Increased CD14+ monocytes and OPN+ positive airway macrophages in the BAL are associated with Post-COVID-19 induced altered respiratory function.
Eliza Tsitoura (Heraklion (Crete), Greece), Eirini Lambiri, Semeli Mastrodemou, Dimitra Maria Zevla, Eleni Bibaki, Nikolta Bizymi, Nikos Tzanakis, Katerina Antoniou

OA3775 The role of reactive nitrogen species as biomarkers of disease severity in COVID-19
Nur Konyalilar (Istanbul, Turkey), Özgecan Kayalar, Deniz Mortazavi, Hadi Rajabi, Seval Korkunç, Sinem Erkan, Tuşu Aksoy, Mehmet Gökhan Gönenli, Fatma Tokgöz Akyil, Sedat Altun, Hasan Bayram

OA3776 Covid-19 and NETs
Salvador Bello Dronda (Zaragoza, Spain), Pablo Ruiz De Gopegui, Lucia López Vergara, Laura Torralba Garcia, Cristina De Diego Ramos, Claudia Abadia Molina, Raquel Lahoz Alonso, Ana Lasierra Monclus, Alberto Cebollada Solanas, Javier Godino, Beatriz Jimeno Beltran

OA3777 To estimate oxidative stress and DNA damage in post-COVID patients.
Nandini Dikshit (Lucknow, India), Surya Kant, Ajay Kumar Verma, Kausar Mahmood Ansari, Jyoti Bajpai, Chamanpreet Kaur, Ishrat Jahan

OA3778 COVID-19 neutrophils show elevated migration and NETosis, which is reduced by PI3K inhibition
Shaun Thein (Birmingham (West Midlands), United Kingdom), Kylie Belchamber, Jon Hazeldine, Frances Grudzinska, Michael Hughes, Alice Jasper, Kay Por Yip, Louise Crowley, Sebastian Lugg, Elizabeth Sapey, Dhruv Parekh, David Thickett, Aaron Scott

OA3779 Insights into the lung microenvironment after severe COVID-19
Valentina Vaira (Milan, Italy), Alessandra Maria Storaci, Mattia Pitasi, Francesco Gentile, Francesco Blasi, Letizia Corinna Morlacchi, Antonio Pesenti, Giacomo Grasselli, Paola Tagliabue, Mario S. Clerici, Francesco Malvestiti, Luca Valentini, Stefano Aliberti, Roberta Gualtierotti, Stefano Ferrero, Mario Nosotti, Alessandra Bandera, Andrea Gori, Flora Peyvandi, Silvano Bosari, Alessandro Palleschi
OA3780 Molecular signatures of SARS-CoV2 in vitro infection of bronchial epithelium from CF, COPD and healthy subjects
Loïc Guillot (Paris, France), Justine Oliva, Manon Ruffin, Claire Calmel, Harriet Corvol, Olivier Terrier

OA3781 Late Breaking Abstract - mRNA vaccine boosts the SARS-CoV-2 specific mucosal antibody in recipients of inactivated and mRNA vaccines
Shaojun Liu (HONG KONG, China), Kathy Yy Chan, Yuanyuan Wei, Renee Wy Chan

OA3782 Discussion
All Speakers

8F Session 441 12:45 - 14:00
Oral presentation: Sarcoidosis: from disease pathogenesis to prediction of disease behaviour

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care Imaging Epidemiology Cell and molecular biology Endoscopy and interventional pulmonology Physiology Public health
Chairs: Karen Moor (Rotterdam, Netherlands)

OA3783 Imbalance between Th17 and Tregs in the EBUS/TBNA lymph nodes in patients with pulmonary sarcoidosis.
Agata Raniszewska (Warszawa, Poland), Elżbieta Rutkowska, Iwona Kwiecien, Joanna Bednarek, Rafal Sokolowski, Karina Jahnz-Rozyk, Piotr Rzepecki

OA3784 Bronchoscopy in sarcoidosis – EBUS-TBNA, transbronchial biopsy or cryobiopsy?
Charlott Terschluse (Freiburg, Germany), Martin Feineis, Wolfram Meschede, Thomas Köhler, Daniel Soriano, Sebastian Fähndrich, Joachim Müller-Quernehim, Daiana Stolz, Bjoern Frye

OA3785 Risk factor of pulmonary embolism in sarcoidosis patients: a pilot study
Barbara Ruaro (Trieste, Italy), Paola Confalonieri, Chiara Torregiani, Silvia Pichieri, Marco Confalonieri, Francesco Salton

OA3786 Changes in forced vital capacity over time in pulmonary fibrosing sarcoidosis: application of group-based trajectory modelling
Florence Jeny (bobigny, France), Marina Cumin, Philippe Khafagy, Pierre-Yves Brillet, Diane Bouvry, Thomas Gille, Nanthara Sritharan, Marouane Boubaya, Dominique Valeyre, Hilario Nunes

OA3787 Strain echocardiography for the prognostic estimation of patients with sarcoidosis
Paolo Cameli (Siena (SI), Italy), Maria Concetta Pastore, Giulia Elena Mandoli, Mariangela Vigna, Giuseppe De Carli, Laura Bergantini, Miriana D'Alessandro, Nicolò Ghionzoli, Elena Bargagli, Matteo Cameli

OA3788 Effect of hydroxychloroquine in cutaneous sarcoidosis or musculoskeletal-related pain
Britney Vermeer (Nieuwegein, Netherlands), Marcel Veltkamp, Adriane D.M. Vorselaars

OA3789 Online mindfulness-based cognitive therapy reduces anxiety and depression in patients with sarcoidosis
Vivienne Kahlmann (Rotterdam, Netherlands), Catharina C Moor, Sanne J Van Helmondt, Rémy L Mostard, Marije L Van Der Lee, Jan C Grutters, Marlies S Wijsenbeek, Marcel Veltkamp

OA3790 Chronic hypersensitivity pneumonitis - how to predict the treatment success?
Katarzyna B. Lewandowska (Warszawa, Poland), Inga Baranska, Małgorzata Sobiecka, Piotr Radwan-Rohrensche, Małgorzata Dybowska, Monika Franczuk, Adriana Rozy, Agnieszka Łękczynska, Iwona Bestry, Jan Kus, Witold Tomkowsk, Monika Szturmowicz

OA3791 Home environmental fungal exposure in patients with Hypersensitivity Pneumonitis – pilot analysis
David Jorge Araújo Barros Coelho (Braga, Portugal), Joao Cavaleiro Rufo, Rita F Santos, Natalia Melo, Patricia Caetano Mota, Andre Terras Alexandre, Helder Novais Bastos, Antonio Morais

OA3792 Discussion
All Speakers

8L Session 442 12:45 - 14:00
Oral presentation: What's new in COVID

Disease(s): Airway diseases Interstitial lung diseases
Method(s): General respiratory patient care Respiratory intensive care Public health Epidemiology Pulmonary function testing Cell and molecular biology Imaging Physiology
Chairs: Eva Van Braeckel (Ghent, Belgium), Iñigo Ojanguren Arranz (Barcelona, Spain)
Airway remodeling in COVID-19 lungs

Airway microbiota profiles associated with total lung capacity after severe COVID-19
Sabine Stadler (Lausanne, Switzerland), Eric Bernasconi, Niki Ubags, Louis Erkoser, Manuela Funke-Chambour, Christophe Von Garnier

Vitamin D to prevent COVID-19 or other acute respiratory infections: phase 3 randomised controlled trial (CORONAVIT)
Adrian R Martineau (London, United Kingdom), David A Jolliffe, Hayley Holt, Mohammad Talaei, Aziz Sheikh, Christopher J Griffiths, Seif O Shaheen, Clare Relton

Faster clinical recovery with ensolvip compared to placebo in patients with mild-to-moderate COVID-19: interim results from the EMPATHY Phase 2 trial
Andreas Tietz (Basel, Switzerland), Richa Chandra, Luis Abrishamian, Marc Bonten, Pierre Fustier, Kinfe Michael Gedif, Susana Goncalves, Awawu Igbinadolor, Jeff Kingsley, Charles Knutson, Nagalingeswaran Kumarasamy, Philippe Legenne, Martha Mekebe- Reuter, Krishnan Ramanathan, Evgeniya Resthetnyak, Jennifer Rosa, Marianne Soergel, Damodaran Solai Elango, Vaia Stavropoulou, Nina Stojcheva, Michael Stump

Major candidate variables to guide personalized treatment with corticosteroids in critically ill patients with COVID-19: CIBERESUCICOVID study
Ana Motos Galera (Barcelona, Spain), Catia Cillóniz, Adrian Ceccato, Laia Fernández-Barat, Antoni Torres

Longitudinal profiling of the peripheral blood transcriptome identifies risk of Major Cardiac Events after Hospitalization for COVID-19
Chloe Hughes (Dundee, United Kingdom), Merete B Long, Holly R Keir, Yan Hui Giam, Thomas Pembidge, Lila Delgado, Hani Abo Leyah, Rebecca Hull, Amy Gilmour, Dune Cassidy, Hollian Richardson, Amelia Shoemark, Faisal Khan, James D Chalmers

THE IMPACT OF BIOLOGICAL AGEING ON CLINICAL SEVERITY IN HOSPITALIZED COVID-19 PATIENTS.
Elien De Waele (Sint-Niklaas, Belgium), Dries Martens, Stijn Vos, Esmée Bijns, Geert Mistiaen, Geert Dewyspelaere, Tim Nawrot, Pieter Goeminne

Characteristics and risk factors for persistent breathlessness after hospitalisation for COVID-19

The role of surfactant lipid composition in the aftermath of covid-19 infection among patients treated in intensive care
Alexander Holm (Gothenburg, Sweden), Sanna Kjellberg, Bengt Nellgard, Ketil Dalla, Per Larsson, Anna-Carin Olin

Late Breaking Abstract - Real-world effectiveness of sotrovimab for the early treatment of COVID-19 in the US
Carolina Reyes (San Francisco, United States), Mindy Cheng, Daniel Gibbons, Helen Birch, Vishal Patel, Christopher Bell, Myriam Drysdale, Sacha Satrah

Discussion
All Speakers

13:00-14:00
INDUSTRY LUNCHETIME SYMPOSIUM


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

Chairs: Thomas Bahmer (Kiel, Germany), Sachin Ananth (London, United Kingdom)
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<tr>
<th>ID</th>
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<th>Authors</th>
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<tr>
<td>PA3834</td>
<td>Post COVID-19 recovery personalised care</td>
<td>Rachael Moses (North Shields, United Kingdom), Jenny Ceolta-Smith, Aimee Robson, Kate Jackson, Mohanpal Singh Chandan</td>
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<tr>
<td>PA3835</td>
<td>Eight clusters of long-covid symptoms</td>
<td>Michal Kopecký (Byšť, Czech Republic), Vladimir Koblizek, Mikulas Skala, Vratislav Sedlak, Jiri Mares, Hynek Cigler</td>
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<tr>
<td>PA3836</td>
<td>Professional burnout in a COVID-19 pandemic</td>
<td>Kseniia Bielsoshutseva (Dnepropetrovsk, Ukraine), Karyna Fuhol, Larysa Botvinikova, Olena Myronenko, Oksana Pliekhanova</td>
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<tr>
<td>PA3837</td>
<td>Impact of endothelial function on the prognosis of COVID-19 patients</td>
<td>Laura Cornejo-Cornejo (México City, Mexico), Carlos Sanchez-Moreno, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Iris Lopez-Vazquez, Mariana Salvatierra-Escobar, Jorge Aguilar-Meza, Juan Marquez-Cordero, Alejandro Rios-Pereda, Luis Hernandez-Urquieita, Roxanne Robles-Hernandez, Susana Galicia-Amor, Esperanza Trejo-Mellado, Juan Carlos Garcia-Hernandez, Norma Camacho-Mendoza</td>
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<td>PA3838</td>
<td>Heart involvement in patients shortly after COVID-19 infection – easy detectable risk factors.</td>
<td>Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros, Marcin Paciorek, Dorota Piotrowska-Kownacka</td>
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<td>PA3839</td>
<td>Major cardiovascular events in patients with severe chronic obstructive pulmonary disease with and without asthma: a nationwide cohort study</td>
<td>Josef Eklöf (København N, Denmark), Barbara Bonnesen, Pradeesh Sivapalan, Anna Kjær Kristensen, Ema Rastoder, Rikke Sorensen, Tor Biering Sorensen, Jens-Ulrik Jensen</td>
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<td>PA3840</td>
<td>Depressive outcomes of coronavirus pneumonia at a glance of gender factor</td>
<td>Kiarina Chichirelo-Konstantynowych (Vinnitsya, Ukraine), Olena Koval, Maksym Marunkevych, Tetyana Konstantynowych, Larysa Moroz</td>
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<td>PA3841</td>
<td>The long-COVID in the Czech Republic - interim analysis of population based survey</td>
<td>Vladimir Koblizek (Hradec Králové, Czech Republic), Jiří Jarkovsky, Iva Cierna Peterová, Pavla Petr Dostalova, Margit Horackova, Milada Sipkova, Jiri Posker, Zuzana Antusova, Marianna Stefankova, Irena Opletalová, Michal Kopecký, Mikulas Skala, Klara Benesova, Ondrej Sanca, Hana Zelinkova, Libor Nevoranek, Larisa Solichova</td>
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<td>PA3842</td>
<td>Anxiety and depression in COVID-19 survivors</td>
<td>Soumaya Bouchareb (Ksar Hellal, Tunisia), Bouthayna Ben Rejeb, Ameni Ben Salem, Aya Zaara, Soumaya Boujnah, Imen Touil, Jihen Ayeb, Leila Boussoffara, Jelal Knani, Nadia Boudawara</td>
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<td>PA3844</td>
<td>Short-term impact of COVID-19 on health-related physical fitness in hospitalized and home-treated patients</td>
<td>Aniello Arianna (Naples, Italy), Luca Scalfi, Ludovica Capitelli, Anna Buonocore, Rosalba Donizzetti, Lorena Gallotti, Paola Rebecca Iovine, Annalisa Mazzocca, Alessandro Sanduzzi, Marialuisa Bocchino</td>
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<td>PA3845</td>
<td>Mortality and access to intensive care in the Czech Republic during COVID-19 pandemic - evidence of care limitation or natural course of the disease?</td>
<td>Vladimir Koblizek (Hradec Králové, Czech Republic), Renata Chloupkova, Ondrej Ngo, Ondrej Majek, Jiri Jarkovsky, Karel Hejdík, Karolina Benesova, Ondrej Sanca</td>
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<td>PA3846</td>
<td>Stress and workload impact of the COVID-19 pandemic on pulmonology residents</td>
<td>Aylin Ozsancağ Uğurlu (Istanbul, Turkey), Maide Gozde Inam, Nazlı Cetin, Orkun Eray Terzi, Nazlı Huma Teke, Mehmet Parlık, Atalay Ozkul</td>
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<td>PA3847</td>
<td>Post COVID Lung function after mild to moderate disease: Good prognosis, but high prevalence of hyperventilation (HV)</td>
<td>Abhinav Singla (Essen, Germany), Christian Taube, Thomas Wessendorf</td>
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<td>PA3848</td>
<td>Clinical course of Covid-19 cases vaccinated or unvaccinated</td>
<td>AYCAN YUKSEL (Ankara, Turkey), Esen Sayin Gülsensoy, Ceren Ilgar, Nalan Ogan, Evrim Eylem Akpinar</td>
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<td>PA3849</td>
<td>Symptoms as achievable indicators of death risk in patients with COPD - final analysis of a prospective multicenter study in Czechia</td>
<td>Jaromir Zatloukal (Olomouc, Czech Republic), Vladimir Koblizek, Michal Svoboda, Eva Volakova, Libor Nevoranek, Michal Kopecky, Marek Plutinsky, Kristian Brat</td>
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### ERS International Congress 2022

**DETAILED PROGRAMME**

**TUESDAY 06 SEPTEMBER, 2022**

| PA3850 | Impact of COVID19 on work return after 6 months of hospitalization  
Eloara Ferreira (São Paulo, Brazil), Helena Azevedo, Nataly Santos, Mariana Lafetá, Vitor Souza, Thais Menezes, Fabiana Penido, Maria Saldanha, Andre Albuquerque, Suzana Tanni, Priscila Sperandio |
| PA3851 | Comparison between suspected and confirmed COVID-19 respiratory patients: a pilot study  
Stefania Principe (Palermo (PA), Italy), Amelia Grosso, Alida Benfante, Federica Albicini, Salvatore Battaglia, Erica Gini, Marta Amata, Ilaria Piccionello, Angelo Guido Corsico, Nicola Scichilone |
| PA3852 | Has become the management of severe SARS-CoV-2 infection a challenge for respiratory physicians?  
Damiana Maria Vulturar (Cluj-Napoca, Romania), Anca-Diana Maierean, Doina-Adina Todea |

### TP-10 in thematic poster area

**Session 451**

**13:00 - 14:00**

**Thematic poster: Clinical treatment of asthma**

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

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

**Chairs:** Zuzana Diamant (Lund, Sweden), Pradeesh Sivapalan (Gentofte, Denmark)

| PA3853 | Effect of once daily (o.d.) mometasone/indacaterol/glycopyrronium (MF/IND/GLY) vs o.d. MF/IND and twice daily (b.i.d.) fluticasone/salmeterol (FLU/SAL) with respect to age, age at asthma-onset and BMI at baseline: Subgroup analysis from IRIDIUM study  
Huib A.M. Kerstjens (Groningen, Netherlands), David Lawrence, Karen Mezzi, Dominic Brittain, Xavier Jaumont, Kenneth R. Chapman |
| PA3854 | A window of opportunity to prevent exacerbations in intermittent and mild persistent asthma  
Miguel Lanz (Coral Gables, United States), Michael Pollack, Ileen Gilbert, Hitesh Gandhi, Joseph Tkacz, Njira Lugogo |
| PA3855 | Predictors of treatment response to high-dose ICS/LABA or medium-dose ICS/LABA+LAMA in asthma patients - TAILOR study  
Katia Mc Verhamme (Rotterdam, Netherlands), Maria De Ridder, Peter Rijnbeek, Mees Mosseveld, Lars Pedersen, Ettore Marconi, Francesco Lapi, Cheryl Tan, Antonella Delmestri, Dani Prieto-Alhambra, Dani Prieto-Alhambra, Elena Nudo, Guy Brusselle |
| PA3856 | SABA-free asthma management challenged by refer id asthma questionnaire.  
Luis Nannini (Rosario (Pcia. Santa Fe), Argentina), Nadia Brandon, Octavio Fernandez, Gabriela Chirino, Nadia Zuccarino, Francisco Rovira |
| PA3857 | Short and longer-term effects of tailored pulmonary rehabilitation for difficult-to-control asthma associated with elevated body mass index  
Helen Clare Ricketts (Glasgow (Glasgow), United Kingdom), Femke Steffensen, Duncan S Buchan, Rekha Chaudhuri, Douglas C Cowan |
| PA3858 | Efficacy of once-daily medium- or high-dose mometasone/indacaterol/glycopyrronium (MF/IND/GLY) versus twice -daily high-dose fluticasone/salmeterol (FLU/SAL) to control nocturnal symptoms in patients (pts) with inadequately controlled asthma  
Kenneth R. Chapman (Toronto (ON), Canada), Richard Van-Zyl Smit, Karen Mezzi, Dominic Brittain, Huib Am Kerstjens |
| PA3859 | Efficacy of once-daily (o.d.) indacaterol/glycopyrronium/mometasone (IND/GLY/MF) vs free combination of twice-daily salmeterol/fluticasone (SAL/FLU) & o.d. tiotropium with respect to age, age at asthma-onset & BMI at baseline: ARGON subgroup analysis  
Richard Van Zyl-Smit (Cape Town, South Africa), David Lawrence, Karen Mezzi, Dominic Brittain, Xavier Jaumont, Christian Gessner |
| PA3861 | Asthma patient adherence to biologic and non-biologic treatments  
Michelle Tan (London, United Kingdom), Kelly Kueh |
| PA3862 | Medication adherence and asthma control with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion: interim analysis from Europe  
Holger Woehrle (Ulm, Germany), Paul Mastoridis, David A Stempel, Leanne Kaye, Vy Vuong, Karen Mezzi |
| PA3863 | Medication adherence and asthma control with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion: interim analysis from Japan and Germany  
Holger Woehrle (Ulm, Germany), Paul Mastoridis, David A Stempel, Leanne Kaye, Vy Vuong, Karen Mezzi |
Efficacy of indacaterol/glycopyrronium/mometasone (IND/GLY/MF) vs free combination of salmeterol/fluticasone (SAL/FLU) & tiotropium (TIO) in patients with uncontrolled asthma on prior LABA/ICS high-dose (GINA step 5): Results from ARGON study

Christian Gessner (Leipzig, Germany), David Lawrence, Karen Mezzi, Dominic Brittain, Richard Van-Zyl Smith

TriOptimize X: Improved adherence by extrafine single-inhaler triple therapy in real-world

Carl-Peter Criee (Bovenden, Germany), Frederik Trinkmann, Stephanie Güldenring, Nathalie Loeper, Valentina Bogoevska, Christian Gessner

Airway hyperresponsiveness in uncontrolled severe eosinophilic asthma with anti-IL5ra

Rory Chan (Glasgow, United Kingdom), Chris Ruiwen Kuo, Sunny Jabbal, Cally Smith, Brian Lipworth

Bronchodilator responsiveness testing with inhaled budesonide/formoterol in asthma.

Luis Nannini (Rosario (Pcia. Santa Fe), Argentina), Nadia Neumayer, Nadia Brandan, Octavio Fernandez

Oral corticosteroid-related morbidity and mortality in asthma - a Danish nationwide cohort study

Inge Raadal Skov (Odense, Denmark), Hanne Madsen, Daniel Pilsgaard Henriksen, Jacob Harbo Andersen, Anton Pottegård, Jesper Romhild Davidsen

Determinants of type of step-up treatment following medium-dose ICS/LABA in asthma patients - TAILOR study

Katia Mc Verhanne (Rotterdam, Netherlands), Maria De Ridder, Peter Rijnbeek, Mees Mosseveld, Lars Pedersen, Francesco Lapi, Ettore Marconi, Cheryl Tan, Antonella Delmestri, Dani Prieto-Alhambra, Dani Prieto-Alhambra, Enena Nudo, Guy Brussels

Early lung function and asthma control test score after different biological therapy in severe asthmatics patients in real-life

Maria Eugenia Navarrete Rouco (Barcelona (Barcelona), Spain), Cinta Cumpli, Esmeralda Hernández, Juana Martínez-Llorens, Nuria Carballo, José González-García, Pilar Ausin

Once-daily Inhaled therapy and peak flowmetry: How effective in improving adherence and control of Asthma

Pramod Dadhich (Mumbai, India)

Bone Morphogenic Proteins and their antagonists in the lower airways of stable COPD patients

Antonino Di Stefano (Veruno (NO), Italy), Isabella Gnemmi, Francesca Dossena, Umberto Rosani, Paola Brun, Andrea Leonardi, Bruno Balbi, Francesco Nucera, Vitina Carriero, Francesca Bertolini, Silvestro Ennio D’Anna, Mauro Maniscalco, Ian M. Adcock, Gaetano Caramori, Fabio Lm Ricciardolo

What is walking? a systematic review and meta-ethnography

Laura Delgado Ortiz (Barcelona, Spain), Ashley Polhemus, Alison Keogh, Norman Sutton, Werner Remmele, Clint Hansen, Felix Klage, Basil Sharrack, Clemens Becker, Thierry Troosters, Walter Maetzler, Lynn Rochester, Anja Frei, Milo Puhan, Judith Garcia-Aymerich

Effects of breathing-based meditation on dyspnea in COPD, a single-case study

Ting-fen Lin (Fresno, United States), Samantha Shune

Survival of COPD patients according to the new phenotypes defined in Spanish COPD Guidelines 2021

IRENE MILAGROS DOMINGUEZ ZABALET (Madrid, Spain), Zichen Ji, Julio Hernández Vázquez, Ismael Ali García, Carmen Mateusz Ruiz, Walther Iván Giron Matute, David Martos Ruiz, Paula García Valentín, Marta Esteban Yagüe, Javier De Miguel Díez

Thrombophilia as a factor in increasing inflammation in COPD

Elnorahon Abduganieva (Tashkent, Uzbekistan)

The BLF Early COPD Consortium: Respiratory Oscillometry Detects Abnormalities before Lung Function Testing

Andrew Ritchie (London, United Kingdom), Gavin Donaldson, Omar Usmani, Andras Bikov, Luana Alves-Moreira, Jorgen Vestbo, Peter Calverley, Jadwiga Wedzicha

Thematic poster: COPD: from biomarkers to phenotypes and severity

Disease(s) : Airway diseases, Respiratory critical care

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

Chairs : Morten Dahl (Køge, Denmark), Jose Luis López-Campos Bodineau (Sevilla, Spain)

Bone Morphogenic Proteins and their antagonists in the lower airways of stable COPD patients

Antonino Di Stefano (Veruno (NO), Italy), Isabella Gnemmi, Francesca Dossena, Umberto Rosani, Paola Brun, Andrea Leonardi, Bruno Balbi, Francesco Nucera, Vitina Carriero, Francesca Bertolini, Silvestro Ennio D’Anna, Mauro Maniscalco, Ian M. Adcock, Gaetano Caramori, Fabio Lm Ricciardolo

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Advanced lung function targeting small airway dysfunction (SAD) improves differentiation of mild COPD and smokers at risk from healthy controls – CAPTO-COPD
Frederik Trinkmann (Heidelberg, Germany), Mustafa Abdo, Anne Kirsten, Klaus F. Rabe, Felix J.F. Herth, Henrik Watz

Health-related quality of life (HRQL) is associated with small airway dysfunction (SAD) in mild COPD and smokers at risk – cross-sectional baseline data from CAPTO-COPD
Frederik Trinkmann (Heidelberg, Germany), Anne Kirsten, Mustafa Abdo, Klaus F. Rabe, Felix J.F. Herth, Henrik Watz

TRONARTO post hoc analysis: factors affecting peak inspiratory flow (PIF) variability
Donald A. Mahler (Hanover, United States), Henrik Watz, Rachel Emerson-Stadler, John Ritz, Asif Shaikh, Michael Bradley Drummond

Sarcopenia is associated with cardiovascular risk in patients with COPD, independent of adiposity
Youngmok Park (Seoul, Republic of Korea), Ji Ye Jung, Ah Young Leem, Young Sam Kim, Kung Soo Chung, Moo Suk Park, Seung Up Kim, Young Ae Kang

Correlations between volumetric capnography and automated quantitative computed tomography analysis in patients with severe COPD
Monica Corso Pereira (Campinas (SP), Brazil), Odair Diniz, Silvia Da Silva, Marcel Santos, Ilda Paschoal, Marcos Moreira

Principal component analysis of flow-volume curves in COPDGene to link spirometry with phenotypes of COPD
Kenneth Verstraete (Leuven, Belgium), Nilakash Das, Marko Topalovic, Thierry Troosters, Maarten De Vos, Wim Janssens

PROM and PREM preferences in COPD-patients

Rapid FEV1/FVC decline is a risk factor for chronic obstructive pulmonary disease and mortality in general population
Kwang Yong Choi (Seoul, Republic of Korea), Hye-Jin Lee, Jung-Kyu Lee, Tae Yeon Park, Eun Young Heo, Deog Kyeom Kim, Hyun Woo Lee

Probabilistic modeling of COPD imaging characteristics for disease severity prediction
Silvia Dias Almeida (Heidelberg, Germany), Tobias Norajitra, Carsten Lueth, Tassilo Wald, Taissia Kopytova, Marco Nolden, Paul F. Jaeger, Claus Peter Heussel, Juergen Biederer, Hans-Ulrich Kauczor, Oliver Weinheimer, Klaas Maier-Hein

Analysis of brain functional connectivity in COPD patients with functional brain MRI
Yoomi Yeo (Guri-si, Republic of Korea), Ji Tak Rhu, Hanjoon Jo, Sung-Ho Jang, Joonho Choi, Dong Woo Park, Tae-Hyung Kim

FEV1 decline is accelerated in only a minority of patients with COPD: a factorial analysis of longitudinal data
Pierre-Régis Burgel (Paris, France), Thierry Perez, Gaëtan Deslée, Maeva Zysman, Olivier Le Rouzic, Pascal Chanez, Gilles Jébrak, Isabelle Court-Fortune, Graziella Brinchault, Pascale Nesme-Meyer, Anne Guillamont, Bruno Ribeiro-Baptista, El Hassane Ouallaya, Jean-Louis Paillasseur, Nicolas Roche

129Xe-MRI and lung function to phenotype ventilation heterogeneity in asthma and/or COPD
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Demi-Jade Jakymelen, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smita Rajaram, Andy Swift, David Capener, Jody Bray, James Ball, Oliver Rodgers, Ian Smith, Bilal Tahir, Madhweshra Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

Prediction of V'O2max in advanced COPD patients using the Oxygen Uptake Efficiency Slope
Marco Maenen (Heerlen, Netherlands), L. Van Den Broek, L. Somers, A. Hanneman, J.G. Van Den Aardweg, R. Baba, M.D. De Kruijf

Thematic poster: Elucidating the pathogenesis of COPD, cough and viral infection

Disease(s) : Airway diseases
Method(s) : Cell and molecular biology  General respiratory patient care  Pulmonary function testing  Epidemiology
Chairs : Antonio Spanevello (Milano, Italy), Melissa McDonnell (Oranmore (Co Galway), Ireland)

Differential responses of COPD macrophages to respiratory bacterial pathogens
Simon Lea (Manchester (Greater Manchester), United Kingdom), Augusta Beech, James Baker, Rosemary Gaskell, Dharmendra Pandolia, Aisha Baba Dikwa, Rajesh Shah, Dave Singh
**PA3894** Mast cell gene expression in eosinophilic COPD patients
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Tuyet-Hang Pham, Christopher Mccrae, Dave Singh

**PA3895** ADAM17 and CD62L in BAL fluid as a measure of leukocyte transmigration in COPD, asthma, and healthy individuals
Carin Larsson (Rydgård, Sweden), Nicole Van Der Burg, Jaro Ankerst, Leif Bjerner, Ellen Tufvesson

**PA3896** Three clinical phenotypes of COPD with each a characteristic immunological profile
Cathelijne van Zelst (Rotterdam, Netherlands), Johannes In’T Veen, Marjolein De Bruijn, Menno Van Nimwegen, Esmeer Van Der Ploeg, Lisette Krabbendam, Denise Van Uden, Ralph Stadhouders, Rudi Hendriks, Gert-Jan Braunstahl

**PA3897** Soluble epoxide hydrolase inhibition alleviates inflammation in cigarette smoke-induced experimental COPD irrespective of dietary fat content
Saima Firdous Rehman (Annandale Sydney, Australia), Kurtis F Budden, Alessandro Quaranta, David Fuchs, Shakti D Shukla, Alexandra Brown, Charlotte Alemao, Lohis Balachandra, Henry Gomez, Vinod Kumar, Sobia Idrees, Jay Horvat, Lisa G Wood, Craig Wheelock, Philip M Hansbro

**PA3898** Tyndallized bacteria induce macrophage polarization toward M1 polarization: an effect useful to balance allergic immune responses
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Simona Taverna, Maria Ferraro, Marco Buscetta, Chiara Cipollina, Stefania La Grutta

**PA3899** LSC - 2022 - Innate immunity plays an important role during NTHI and RV sequential infection.
Yuqing Long (Oxford, United Kingdom), Morgan, Paul Klenerman, Timothy Hinks

**PA3900** Capsaicin evoked cough responses and the effect of sex hormones
Ruth Cusack (Waterford, Ireland), X Ju, B.M Salter, K Howie, C Stevens, S Beaudin, J Wattie, J.A. Smith, P.M. O'Byrne, Imran Satia, R Sehmi, Gail Gauvreau

**PA3901** Late Breaking Abstract - Maternal high-fat diet increases airway sensory innervation and reflex bronchoconstriction in adult offspring
Zhening Nie (Portland, United States), Gina Calco, Yem Alharithi, Elysse Phillips, David Jacoby, Allison Fryer, Alina Maloyan

**PA3902** Late Breaking Abstract - Enhanced early T cell activation and protection from hyper-inflammation in smoke exposed Cox4i2/- infected mice with influenza
Thilo Berger (Marburg, Germany), Claudia Fernanda Garcia Castro, Vidya Lakshmi, Sara Völkel, Natascha Sommer, Chrysanthi Skevaki

**PA3903** Late Breaking Abstract - FeNO in a healthy population: normal ranges and contributing factors
Christina Bal (Wien, Austria), Caspar Schiffer, Patricia Puchhammer, Owat Sunanta, Marie-Kathrin Breyer, Wolfgang Pohl, Sylvia Hartl, Marco Idzko, Robab Breyer-Kohansal

**PA3904** Late Breaking Abstract - Assessment of sputum inflammatory, neural, and remodelling mediators in eosinophilic and non-eosinophilic asthma
Hajar Ali (wellington, New Zealand), Jeroen Douwes, Jeroen Burmanje, Prachee Gokhale, Julian Crane, Philip Pattemore, Yu-Chieh Tseng, Thorsten Stanley, Jacqui Keenan, Collin Brooks

**PA3905** Late Breaking Abstract - White blood cells and asthma: a two-sample Mendelian Randomization Study
Vanessa Bellou (Ioannina, Greece), Athena Gogali, Konstantinos Kostikas, Evangelos Evangelou

**PA3906** Late Breaking Abstract - Oral microbiome associated with asthma and COPD in a multicenter study
Christine Drengenes (Bergen, Norway), Michael Abramson, Oskar Jögi, Caroline Lodge, Francisco Gomez Real, Randi Bertelsen

**TP-13 in thematic poster**
**Session 454**  13:00 - 14:00

**Thematic poster: Obstructive lung diseases: trends, diagnosis and management**

**Disease(s):** Airway diseases

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

**Chairs:** Branišlava Milenković (Beograd, Republic of Serbia), AYCAN YUKSEL (Ankara, Turkey)

**Co-morbidities in COPD patients with Arg16Gly polymorphism of ADRB2 gene**
Kostiantyn Dmytriev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytriev, Kateryna Dmytrieva

**PA3907**
PA3908  Respiratory health inequalities exponentially impact the most deprived tertile
Alice Lee (Liverpool, United Kingdom), Carlos Echevarria, Daniel Hawcutt, Ian Sinha

PA3909  Long-term oxygen therapy in Catalonia over 18 years
Julia Tarrega Camarasa (Granollers, Spain), Alejandra Marin Arguedas

PA3910  Disease burden and healthcare contact behaviour across care sectors in asthma
Kjell Erik Julius Håkansson (København N, Denmark), Vibeke Backer, Charlotte Suppli Ulrik

PA3911  Healthcare resource consumption and care pathway of patients who died from asthma in France
Laurent Guilleminault (Toulouse Cedex, France), Michael Mounié, Agnès Sommet, Claire Camus, Alain Didier, Laurent Reber, Nadège Costa, Cécile Conte

PA3912  Pharmacovigilance in Brazil: safety of budesonide-formoterol
Rafael Miranda (Santo Andre (SP), Brazil), Antonio Vattimo, Jana Fonseca, Marina Ramos, Ariane Oliveira, Karen Barbosa, Stevin Zung

PA3913  Amongst chronic conditions, respiratory diseases are most inextricably linked to socioeconomic deprivation
Alice Lee (Liverpool, United Kingdom), Carlos Echevarria, Daniel Hawcutt, Ian Sinha

PA3914  Characteristics of patients developing depression after hospitalization for COPD
Johanne Hermann Karlsen (Randers C, Denmark), Christian Torp-Pedersen, Kristian Hay Kragholm, Ulla Møller Weinreich, Peter Jacobsen

PA3915  Parental COPD as a risk factor for developing COPD and disease severity in offspring – a systematic scoping review
Melina Sikjaer (Egå, Denmark), Allan Sorensen, Ole Hilberg, Anders Lokke

PA3916  Co-morbidities in COPD patients with Gln27Glu polymorphism of ADRB2 gene
Kostiantyn Dmytriiev (Vinnitsa, Ukraine), Yuriy Mostovoy, Natalia Slepchenko, Yuliia Smereka, Dmytro Dmytriiev

PA3917  Observational cohort study of pulmonary exacerbations in alpha-1 antitrypsin deficiency
Paul Ellis (Solihull, United Kingdom), Michael Newnham, John Ripollone, Mark Forshag, Alice Turner

PA3918  Development and validation of a clinical model to identify candidates for allergic rhinitis pre-exposure prophylaxis: a multi-center study
Wenting Luo (Guangzhou (Guangdong), China), Baoqing Sun

PA3919  HAS MORTALITY FROM COPD DECREASED IN SPAIN IN THE LAST TWO DECADES?
Gema Ramirez Rodriguez (Granada, Spain), Ana Quesada-Quesada, Antonio Menéndez-Lobo, Alejandro Romero-Linares, Bernardino Alcázar-Navarrete

PA3920  Retrospective study characterising clinical manifestations and treatment patterns of hypereosinophilic syndrome in Europe
Lee Baylis (Apex, United States), Jeremiah Hwee, Rupert W Jakes, Lynn Huynh, Namhee Kwon, Rafael Alfonso-Cristancho, Gema Requena, Shawn Du, Anamika Khanal, Mei Sheng Duh

PA3921  Prognosis of patients with COPD not eligible for major clinical trials
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo

PA3922  Where and when: The diagnostic setting and age at diagnosis for Danish COPD-patients - a nationwide registry study
Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christian Torp-Pedersen, Ulla Møller Weinreich

PA3923  Chronic airflow limitation and respiratory symptoms in relation to smoking in a general middle-aged population
Magnus Sköld (Stockholm, Sweden), Anders Blomberg, Per Lin, Carl Johan Östgren, Jan Engvall, Andrei Malinovschi, Gunnar Engström, Kjell Torén

PA3924  Title: Development of a Community Screening tool for COPD in India: The OSCAR study
Deesha Ghorpade (Pune (Maharashtra), India), Jyoti Londhe, Sapna Madas, Anchala Raghupathy, Nisha Kale, Arvinder Narula, Reshma Patil, Prakash P R Doke, Sundeeb Salvi

PA3925  The role of birth order and sibship size in the pathogenesis of asthma is independent of living standards
Daniil Lisik (Gotenburg, Sweden), Athina Ioannidou, Gregorio Paolo Milani, Sungkutu Nyassi, Salih Selin Özyuygur Ermis, Giulia Carla Immacolata Spolidoro, Hannu Kankaanranta, Emma Goksör, Göran Wennnergren, Bright Ibeabughichi Nwaru

TP-14 in thematic poster area  Session 455  13:00 - 14:00
Thematic poster: Epidemiology: products and diseases
### Disease(s):
- Airway diseases
- Respiratory critical care

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

### Chairs:
- Stamatoula Tsikrika (Athens, Greece), Linnea Hedman (Luleå, Sweden)

### PA3926
**Smoking cessation program for patients with diabetes-success factors**  
Ailiki Korkontzelou (Athens, Greece), Stamatina Dria, Soritiria Schorresantani, Zafeiria Bararessou, Basiliki Vasileiou, Vasiliki Saltagianni, Alexander Osarogue, Sotirios Gyfopoulos, Martha Andritsou, Sofia Pappa, Serena Tonstad, Christina Gratziou, Nikolaos Tentoulouris, Paraskevi Katsaounou

### PA3927
**Impact of smoking and arterial hypertension on plasma surfactant protein-A levels in patients during acute exacerbation COPD**  
Olha Shtepa (Dnipro, Ukraine)

### PA3928
**Biomarkers used to evaluate smoking in COPD patients**  
Letitia Trofor (Iasi, Romania), Antigona Carmen Trofor, Ioana Buculei, Mona Dobrin, Roberta Ionela Cernat, Oana Melinte, Cristina Vicol, Emanuel Stavarache

### PA3929
**Evaluation of environmental tobacco smoke exposure of pediatric patients with chronic lung diseases**  
Setenay Akyuzluer Gunes (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Merve Nur Tekin, Filiz Bakar Ateş, Nazan Cobanoglu

### PA3930
**Students’ smoking prevalence in Barcelona region in 2021: study of its evolution compared to 2016 and 2019**  
Cristina Muñoz-Pindado (Vic, Barcelona, Spain), Genoveva Vilardell-Riñá, Carlos Muñoz-Pindado

### PA3931
**SARS CoV-2 infection in a cohort of patients from a smoking cessation program in Bogotá**  
Juan Pablo Rodriguez Gallego (Bogotá, Colombia), Daniela Cifuentes Hurtado, Mauricio Gonzalez Garcia

### PA3932
**High parental education a risk factor for teenage e-cigarette use in Ireland**  
Joan Hanafin (Dublin, Ireland), Salome Sunday, Luke J. Clancy

### PA3933
**The decline in teenage smoking has reversed in Ireland - how can we intervene?**  
Salome Sunday (Blackpool, Ireland), Joan Hanafin, Luke Clancy

### PA3934
**Educational interventions to improve inpatient smoking cessation support**  
Adam Lyons (London, United Kingdom), Rebecca Walshe, Christina Timehin, Kay Roy

### PA3935
**Comparative study of oxidative stress status in smokers versus non-smokers with tuberculosis**  
Letitia Trofor (Iasi, Romania), Antigona Carmen Trofor, Ioana Buculei, Cristina Vicol, Mona Dobrin, Roberta Ionela Cernat, Oana Melinte, Daniela Robu Popa

### PA3936
**Clinical features of drug addict patients hospitalized for pulmonary diseases**  
Khouloud Chaabi (Tunis, Tunisia), Emna Ben Jemia, Yossr Aloulou, Nourchene Khalfallah, Yossr Ben Attiq, Jihen Ben Amar, Mohamed Sadok Boudaya, Haïfa Zaibi, Hichem Aouina

### PA3937
**Predictors of severity in patients with exacerbation of the chronic obstructive pulmonary disease**  
Hamida Kwas (Gabès, Tunisia), Sabrine Majdoub, Wafa Fekih

### PA3938
**Correlation between blood carboxyhemoglobin levels and smoking**  
Cristina Sánchez Fernández (Oropesa, Spain), Walther Ivan Girón Matute, Ji Zichen, Gabriella Manzanares Cavin, Irene Milagros Domínguez Zabaleta, Cristhian Alonso Correa Gutiérrez, Virginia Parra León, Javier De Miguel Diez, Luis Puente Maestu

### PA3939
**Attitudes and behavior of healthcare workers towards smoking: Hospital-based study in Tunisia**  
amina abdelkhir (ben arous, Tunisia), Yosr Ayedi, Chahida Harizi, Afeq Skhiri, Nawel Dhaouadi, Radhouane Fakhfakh

### PA3940
**Smoking among nursing staff in the regional hospital of AGADIR**  
Oussama HALLOUMI (AGADIR, Morocco), Houda Moubachir, Hind Serhane

### PA3941
**Vaping and Hookah use among medical trainees**  
Luíza Helena Degani-Costa (São Paulo, Brazil), Fernanda P Bruno, Fernanda Gushken, Claudia Szlejf, João Roberto Resende Fernandes, Yasmin P Tehrani, Daniel Kaufman, Ana B P Tokeshi, Kandipudi K L Prasad, Pentapati S S Kumar, Limalemia Jamir, Matthew G K Benesch, Morag G Ryan, Hardeep S Lotay, Jonathan P Fuld, Thiago M Fidalgo

### PA3942
**Geography, gender and smoking in Europe**  
Luke J. Clancy (Dublin 8, Ireland), Joan Hanafin, Salome Sunday

### PA3943
**Parental smoking reduction bundle in children’s medical-care utilisation, respiratory tract infection and spirometry results**  
Siyu Dai (Hong Kong, Hong Kong), Fanjing Meng
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<td>PA3944</td>
<td>Late Breaking Abstract - Sex-related differences and FEV1 decline among COPD patients: the French Palomb cohort</td>
<td>Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouualaya, Alain Bernady, Emilie Berteaud, Julien Casteigt, Laurent Fatique, Frédéric Le Guillou, Jean Moinard, Mathieu Molimard, Laurent Nguyen, Cécilia Noceint, Annaig Ozier, Mohammed Staali, Chantal Raherison-Semjen</td>
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<td>PA3945</td>
<td>Late Breaking Abstract - Establishment of an Alpha-1 research registry within the patient advocacy organization</td>
<td>Jeanine D’Armentio (New York, United States), Monica Goldklang, Alison Chin, J Michael Wells, Randel Plant, Laura Fonseca, Charlie Strange</td>
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<td>PA3946</td>
<td>Exposure to bushfire smoke is associated with clinical significant decrease in lung function in asthmatic children during the 2019/2020 Australian bushfire event</td>
<td>Carla Rebeca Da Silva Sena (Newcastle, Australia), Olivia Lines, Mariyam Shaya Latheef, Guvani Gaveshika Amarasinhe, Wei Han Quah, Tesfaliidet Beyene, Joseph Van Buskirk, Ivan Hanigan, Geoff Morgan, Christopher Oldmeadow, Lauren Platt, Kasey Pearce, Vanessa Murphy, Peter G Gibson, Wilfried Karmaus, Adam Collison, Koert Dewaal, Joerg Mattes</td>
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<td>PA3947</td>
<td>Have you heard about Air Pollution?</td>
<td>Abigail Whitehouse (London, United Kingdom), Rachel Parker, Victoria Hadaway</td>
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<td>PA3948</td>
<td>Impact of COVID-19 related alterations in circulating respiratory viruses on children and adult patients with recurrent wheeze and asthma</td>
<td>Nicole Maison (München, Germany), Ana Peck, Alexander Hose, Jimmy Omony, Bianca Schaub, Ruth Grychtol, Anna-Maria Dittrich, Catharina Nitsche, Svenja Foth, Markus Weckmann, Mustafa Abd, Thomas Bahmer, Klaus F. Rabe, Harald Renz, Gesine Hansen, Matthias V. Kopp, Erika Von Mutius</td>
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<td>PA3949</td>
<td>Differences in COVID-19-triggered pediatric asthma exacerbations across variant waves</td>
<td>Kristina Gaietto (Pittsburgh, United States), Oliver Snyder, Nicholas Bergum, Leigh Anne Dicicco, Sherry Rauenswinter, Jennifer Iagnemma, David Wolfson, Traci Kazmerski, Erick Forno</td>
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<tr>
<td>PA3950</td>
<td>Living with the risk of being infected: Asthma patients'/experiences during the Covid-19 pandemic.</td>
<td>Fatiah bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane</td>
</tr>
<tr>
<td>PA3951</td>
<td>Late Breaking Abstract - Parental socioeconomic status, access to specialist care, and childhood asthma severity, control, and exacerbations</td>
<td>Kjell Erik Julius Håkansson (København N, Denmark), Silvia Cabrera Guerrero, Vibeke Backer, Charlotte Suppli Ulrik, Deepa Rastogi</td>
</tr>
<tr>
<td>PA3952</td>
<td>Follow-up of severe asthmatic children during COVID-19 pandemic: A comparative analysis</td>
<td>Gabriela Pelláez (Buenos Aires, Argentina), Verónica Giubergia, Juan Manuel Figueroa, Claudio Castaños</td>
</tr>
<tr>
<td>PA3953</td>
<td>The prevalence, severity and risk factors of asthma in school-going adolescents in KwaZulu Natal, South Africa.</td>
<td>Reratilwe Mphahlele (Durban (Kwazulu Natal), South Africa), Refiloe Masekela</td>
</tr>
<tr>
<td>PA3954</td>
<td>Impact of moisture / mould exposure on asthma control in children: the CHAMPIASTHMA study</td>
<td>Stéphanie Lejeune (Lille, France), Margaux Sauvere, Flore Chagnon, Camille Cisterne, Clémence Mordacq, Caroline Thumerelle, Hélène Ducoin, Manuela Scalfert, Armelle Le Mée, Mohamed Amani, Sawsan El Mourad, Sophie Encherry, Guillaume Pouesset, Juliette Roussel, Maxime Darts, Emilie Fréalle, Elodie Drumez, Antoine Deschildre</td>
</tr>
<tr>
<td>PA3955</td>
<td>Allergen sensitization patterns in the French COBRAPed cohort</td>
<td>Stéphanie Lejeune (Lille, France), Naïm Bouazza, Pascale Roland Nicaise, Valérie Jolaine, Léa Roditis, Christophe Marguet, Véronique Houdoin, Patrick Berger, Michael Fayon, Jean-Christophe Dubus, Isabelle Pin, Philippe Reix, Mathieu Pellan, Jacques Brouard, Raphael Chiron, Lisa Giovannini-Chami, Jacques De Blic, Antoine Deschildre, Guillaume Lezmi</td>
</tr>
<tr>
<td>PA3956</td>
<td>Is the measurement of particles in exhaled air feasible and useful in children with suspected asthma?</td>
<td>Laura Healy (Manchester, United Kingdom), Fahad Al-Huda, Emma Barrett, Lisa Willmore, Rhys Tudge, Gina Kerry, Clare S Murray, Angela Simpson, Stephen Fowler</td>
</tr>
<tr>
<td>PA3957</td>
<td>Factors associated with severe asthma in children</td>
<td>Jenny Libeth Jurado Hernández (Bogotá, Colombia), Iván Francisco Álvarez Orozco, Mario Barreto, Gabriel Oscar Sinfuentes Rodríguez, Natalia Becerra Uribe, Luis Fernando Giraldo Cadavid</td>
</tr>
</tbody>
</table>
TP-16 in thematic poster area

Session 457

Thematic poster: Viral respiratory infections and primary ciliary dyskinesia

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

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

**Chairs:** Myrofora Goutaki (Bern, Switzerland), Laura Petrarca (Roma (RM), Italy)

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**PA3965**

**Respiratory (RA) & Non-IgE(NIgE) allergies both increase Respiratory Effort(RE) during sleep, implicating a common pathophysiology mechanism in Obstructive Sleep Apnoea(OSA) asthma associated. Asthma treatment (AT) decrease Apnoea Hypopnea Index(AHI).**

Kalomaira Kefala (Paris, France), François Lavaud, Philippe Guerin

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**PA3966**

**Bronchiolitis 2021-2022: the other viruses revenge**

Meriem Mjid (Tunis, Tunisia), Fatma Khalsi, Imen Briki, Emna Ben Arab, Ines Trabelsi, Imen Belhadj, Khedija Bousssetta

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**PA3967**

**Variation in the pattern of childhood respiratory viral infections during the COVID-19 pandemic**

Dana Pe'er Mosovich (Jerusalem, Israel), Diana Averbuch, Dana Wolf, Oded Breuer

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**TP-16 in thematic poster area**

**Session 457**

**13:00 - 14:00**

**Thematic poster: Viral respiratory infections and primary ciliary dyskinesia**

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

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

**Chairs:** Myrofora Goutaki (Bern, Switzerland), Laura Petrarca (Roma (RM), Italy)

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**PA3966**

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**PA3967**

**Variation in the pattern of childhood respiratory viral infections during the COVID-19 pandemic**

Dana Pe'er Mosovich (Jerusalem, Israel), Diana Averbuch, Dana Wolf, Oded Breuer

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**PA3968**

**Effects of the Covid-19 Pandemic on the nature of bronchiolitis in infants**

Emma Smith (Kent, United Kingdom), Thomas Blyth, Miriam Fine-Goulden

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**PA3969**

**Bronchiolitis vs. COVID-19: epidemiologic correlations from a single Pediatric Unit experience.**

Claudio Cavalli (Cremona, Italy), Anna Vaccari, Alessandra C.F. Ferrari, Lorena Bonetti, Elena Carboni, Filippo Purielli,
Gloria Fumagalli, Mariano S.S. Cosentino, Martina Soliani, Andrea E. Scaramuzza

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**PA3970**

**Hospitalizations for acute bronchiolitis in infants after relaxation of COVID-19 mitigation strategies in Brazil.**

Leonardo Pinto (Porto Alegre (RS), Brazil), Frederico Friedrich, Magali Lumertz, Lucas Montiel Petry, Marina Pieta,
Marcos Brum, Marcelo Scotta, Marcus Jones, Renato Stein

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**PA3971**

**Effectiveness of school or day-care center closure on rhinovirus infection during COVID-19 Pandemic**

Jee Yoon Oh (Seoul, Republic of Korea), Young Seok Lee, Juwhan Choi, Jae Kyeom Sim, Kyung Hoon Min, Gyu Young
Hur, Sung Yong Lee, Jae Jeong Shim

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**PA3972**

**Evolution of the frequency cases of infection COVID-19 among children in relation to the evolution of the pandemic**

Tatiana Dumitras (Chisinau, Republic of Moldova), Rodica Seleevsru, Diana Rotaru-Cojocari, Ana Goloborodico,
Veaceslav Bozadjii, Ion Negru, Ina Pali, Sergiu Gladun, Svetlana Sciuca

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**PA3973**

**Hospitalizations Associated with COVID-19 Among Children in Republic of North Macedonia from September 2021 to January 2022**

Filip Doksimovski (Skopje, North Macedonia), Sandra Petlichkovska, Elena Ginovska, Hristijan Nestorov, Katerina
Boshkovska, Tanja Jakovska
PA3975 Low incidence and severity of SARS-CoV-2 infections in people with PCD
Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Sara Bellu, Fiona Copeland, Jane S Lucas, Claudia E Kuehni

PA3977 Research priorities for Primary Ciliary Dyskinesia- experts' perspective
Myrofora Goutaki (Bern, Switzerland), Yin Ting Lam, Bruna Rubbo, Laura Behan, Jane S. Lucas

PA3979 Research priorities in Primary Ciliary Dyskinesia - patients' perspective
Yin Ting Lam (Bern, Switzerland), Laura Behan, Katie Dexter, Lucy Dixon, Claudia E Kuehni, Eva S-L Pedersen, Jane Lucas, Myrofora Goutaki

PA3980 Sinonasal features in patients with Primary Ciliary Dyskinesia - an EPIC-PCD study

PA3982 Body composition in Primary Ciliary Dyskinesia, does it matter?
René Gaupmann (Wien, Austria), Klara Schmidthaler, Sabine Renner, Zsolt Szépfalusi, Eleonora Dehlink

PA3983 PICADAR - is there a need for a separate paediatric score?
Kirsten Wallace (West Calder, United Kingdom), Zoe Johnstone, Stefan Achim Unger, Kirstin Unger

PA3984 Anxiety and depression in children with primary ciliary dyskinesia – Experience from a tertiary respiratory centre in the northwest United Kingdom
David Wood (Manchester, United Kingdom), Anirban Maitra

PA3985 Depression, anxiety and sleep quality of caregivers of children with spinal muscular atrophy
Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergene, Zeynep Gumus, Muruvvet Yanaz, Aynur Gulieva, Mine Kalyoncu, Merve Selcuk, Seyda Karabulut, Gulten Ozturk, Olcay Unver, Bulent Karadag, Yasemin Goldemir

PA3986 Late Breaking Abstract - Increase of high flow nasal cannulas use after the pandemic in bronchiolitis: a more severe disease or a changed physician's attitude?
Sergio Ghirardo (Trieste, Italy), Giorgio Cozzi, Giovanna Tonin, Francesco Maria Risso, Laura Dotta, Alessandro Zago, Daniela Lupia, Paola Cogo, Nicola Ullmann, Antonella Coretti, Raffaele Badolato, Alessandro Amaddeo, Egidio Barbi, Renato Cutrera

PA3987 Late Breaking Abstract - Prevalence of chronic respiratory disease in Australian Aboriginal children
Pamela Laird (Perth, Australia), Rachel Foong, Shekira Brahim, Elizabeth Mc Kinnon, Matthew Cooper, Roz Walker, Elizabeth Smith, Anne Chang, André Schultz

TP-17 in thematic poster  Session 458  13:00 - 14:00

Thematic poster: Respiratory physiology assessment: choosing the right test for the patient

Disease(s) : Airway diseases  Interstitial lung diseases  Sleep and breathing disorders
Method(s) : General respiratory patient care  Physiology  Pulmonary function testing  Epidemiology  Public health  Imaging  Respiratory intensive care

Chairs: Ana Lutas (São Domingos de Rana, Portugal), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

PA3988 Borg ratings of dyspnea and leg fatigue during exercise testing
Maaike Dunnink (Staphorst, Netherlands), Irene Steenbruggen

PA3989 Validity and symptom burden of impulse oscillometry (iOS) in idiopathic pulmonary fibrosis (IPF)
Suhani Patel (London, United Kingdom), Karl Sylvester, Zhe Wu, Claire Nolan, Toby Maher, Philip Molyneaux, William Man

PA3990 Diagnostic work-up of asthma: more than spirometry
Caspar Schiggers (Vienna, Austria), Emiel Wouters, Alina Ofenheimer, Tobias Mraz, Patricia Puchhammer, Marie-Kathrin Breyer, Renaud Louis, Wolfgang Pohl, Otto Chris Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

PA3991 Accuracy of three different peak flow devices, a pilot study
Martijn Cuypers (Roermond, Netherlands), Richard Bonné, Herman Jan Pennings
| PA3992 | Personal respiratory profiles assessed at rest ventilometry distinguished asthmatic from COPD patients  
Patrick Hanusse (Pessac, France), Pierantonio Laveneziana, Fabien Beaufils, Julie Joie, Christian Straus, Pierre-Olivier Girodet, Thomas Similowski, Patrick Berger |
| PA3993 | Personal respiratory profiles assessed at rest ventilometry predict phenotypes of asthmatic patients  
Patrick Hanusse (Pessac, France), Fabien Beaufils, Julie Joie, Pierantonio Laveneziana, Christian Straus, Thomas Similowski, Pierre-Olivier Girodet, Christophe Pison, Patrick Berger |
| PA3994 | Pulmonary function tests in COVID-19 pandemic: The thoughts and concerns of the patients  
Bilun Gemicioglu (Istanbul, Turkey), Ilgim Vardaloglu, Kamile Tombul, Nihal Ensen, Gunay Can, Sermin Borekci |
| PA3995 | Understanding the pathophysiology of COVID-19: Are we investigating survivors appropriately?  
Ian Cliff (Stoke-on-Trent, United Kingdom), Imran Hussain, Naveed Mustafa, Charlotte Johnson, Helen Stone |
| PA3996 | Correlation between multiple breath washout and spirometry in young cystic fibrosis children with pulmonary  
sufficiency  
Federico Alghisi (Roma (RM), Italy), Matteo De Marchis, Sergio Bella, Fabiana Ciciriello, Alessandra Federici, Alessandro Giovanni Fiocchi |
| PA3997 | Can remote monitoring of lung disease lead to more efficient patient care?  
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Christopher Huntley, Alastair Robertson, Gareth Walters |
| PA3998 | Agreement of three continuous oximetry devices in COPD patients, users of supplementary oxygen and noninvasive  
ventilation.  
Roberto Vera Uribe (Santiago, Chile), Nicolás Sepúlveda Cáceres, Francisca Figueroa, Javiera Rosales Fuentes, Paula Urrutia, Constanza Hernandez, Francisca Zarriqueta, Alvaro Olivares, Maria Elena Torres, Rodrigo Torres-Castro |
| PA3999 | Cardiopulmonary Exercise Testing (CPET) Service Utilisation: Backlog to the Future  
Max Thomas (Birmingham, United Kingdom) |
| PA4000 | Respiratory profiles assessed by rest ventilometry predict response to bronchodilator of COPD patients  
Patrick Hanusse (Pessac, France), Pierantonio Laveneziana, Fabien Beaufils, Julie Joie, Christian Strauss, Pierre-Olivier Girodet, Patrick Berger, Thomas Similowski |
| PA4001 | Body plethysmography interpretation using ECSC versus GLI2019 reference equations  
Tânia Duarte (Caparica, Portugal), Catarina Rijo, Mafalda Loureiro, Susana Sousa, Paula Duarte |
| PA4002 | Effects of Covid-19 pneumonia on submaximal exercise tolerance  
Salma Mokaddem Mohsen (Tunis, Tunisia), Asma Chaker, Nadia Ben Mazreg, Khouloud Kechaou, Molk Maalej, Saloua Ben Khamsa Jameleddine |
| PA4003 | Comparing ultrasonic and breath-actuated jet nebulisers for sputum induction  
Paula Cristina Andrade Almeida (Aracaju (SE), Brazil), Katherine Smith, Glenn Hearson, Matthew J. Martin, Tim W. Harrison |
| PA4004 | Evaluation of the Global Lung Initiative 2012 reference values for spirometry in Chinaa national cross-sectional  
study  
Feilong Wang (Shanghai, China), Kun Wang, Cole Bowerman, Hogne Ulla, Jiaxing Sun, Marko Topalovic, Sanja Stanojevic, Qiang Li |
| PA4005 | Post-Covid Interstitial Lung Disease (PC-ILD): the role of pulmonary function testing and lung imaging in the long-term follow-up of patients with COVID-19 pneumonia  
Letizia D'Antoni (Roma, Italy), Arianna Sanna, Daniela Pellegrino, Emanuele Messina, Leonardo Maria Siena, Valentina Baccolini, Pia Baiocchi, Paolo Villari, Carlo Catalano, Valeria Panebianco, Paolo Palange |
| PA4006 | Late Breaking Abstract - Smallest detectable change (SDD) of absolute lung volumes by bodyplethysmography  
Herman Groepenhoff (Lijnden, Netherlands), Margriet Kaldenbach, Andreas Waldmann |

**TP-18 in thematic poster area**

**Thematic poster: Nursing interventions in various respiratory areas**

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

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

**Chairs:** Rui Pedro Marques da Silva (Sobreira – Paredes, Portugal), Sabina Miranda Valladares (La Laguna, Spain)
Audit of council-level clean air policies for schools in England
Chloe John (Liverpool, United Kingdom), Beth Lawrence, Ian Sinha, Alice Lee

Managing patients with respiratory diseases: burnout among HCP
Tomi Kovačević (Sremska Kamenica, Republic of Serbia), Bojan Zarić, Ivan Mikov, Darijo Bokan

Cognitive impairment in long COVID syndrome patients one year after infection
Javier Martín Núñez (Granada, Spain), Alba Navas Otero, Paula López López, Irene Torres Sánchez, Ángela Benítez Feliponi, Irene Cabrera Martos, Marie Carmen Valenza

A literature review of allergen management in Children with Type 2-high Asthma
Madeleine Gray-ffrench (Leicester, United Kingdom), Ian Sinha, Elissa Abrams, Ricardo Fernandes, Lynsey Brown

How much do we sleep and how much do we know about sleep?
Maria Isabel Portela Ferreño (Pontevedra, Spain), Angel Piñeiro Lopez, Alejandro Pastor Campo, Arthur Yesayan, Tania Rivera Baltanas, Robert Alarcón Cedeño

The effect of the respiratory rehabilitation depends on the level of anxiety and depression.
Sabina Miranda Valladares (La Laguna, Spain), Marta Perez Redondo, Marta Entrambasaguas Martin, Belen Gonzalez Sanchez, Maria Jesus Prunera Pardell, Adolfo Domenech Del Rio

Exacerbation risk factors in bronchiectasis colonized by Pseudomonas aeruginosa
Leticia Bueno Freire (Barcelona, Spain), Victoria Alcaraz Serrano, Nil Vázquez Burgos, Andrea Palomeque Flores, Patricia Osnana Huamán, Roberto Cabrera Ortega, Rubén López Aladid, Rosanel Amaro, Adrián Ceccato, Laia Fernández Barat*, Antoni Torres*

Abdominal Haematomas following subcutaneous heparin injections in COVID19 patients; Food for thought in daily practice.
Ellë Keramida (Athens, Greece), Georgia Hardavella, Elena Bellou, Irma Bracka, Antonis Xipolitos, Maria Salomidou, Thodoris Daskalos, Ioannis Zorpidou, Despoina Zorpidou, Panagiotsis Demertzis

Performance of The Modified Viral and Bacterial Filter during Aerosol Inhalation Therapy
Ting Yu (Changchun, China), Hongjing Lin, Zeyu Qin, Fanying Yu

Effectiveness of the "AsmaSemCrise" programme in asthma control
Liliana Silva (Matoesinhos, Portugal), Luciana Rodrigues

Nurses with workplace violence in pneumology settings during Covid-19
Francesca Napolitano (Genova, Italy), Annamaria Bagnasco, Gianluca Catania, Nicola Pagnucci, Rosaria Alvaro, Giancarlo Ciccolini, Alberto Dal Molin, Loreto Lancia, Maura Lusignani, Daniela Mecugni, Paolo Carlo Motta, Roger Watson, Mark Hayter, Milko Zanini, Loredana Sasso

Effectiveness of Fan therapy in breathlessness management in Fibrotic Interstitial lung disease.
Helen Morris (Manchester (Greater Manchester), United Kingdom), Katie Zakis, Jenna Swale, Conal Hayton

Prognostic value of the distance walked in the 6-minute walk test and the desaturation-distance ratio (DDR) in patients who will receive hematopoietic stem-based transplantation (HSCT).
Rodrigo Torres Castro (Barcelona, Spain), Yolanda Torralba Garcia, Xavier Alsina Restoy, Jordi Vilaró, Isabel Blanco

Patient perspective on antifibrotic monitoring - impact on management at a single UK prescribing centre
Carino Ruggerio (Oxford, United Kingdom), Shakila Hussain, Karen Parsons, Sarah Poole, Raashid Luqmani, Vishal Nathwani, Sabrina Zulfikar, Emily Fraser, Peter Saunders, Ling-Pei Ho, Rachel Hoyles

Development of a core competency-based curriculum in respiratory nursing – A nationwide Delphi study
Silvia Loua Henriksen (Lyngby, Denmark), Marie Albrechtsen Paine, Charlotte Sandau Bech, Lea Baunegaard Hvidberg

Respiratory nursing post-COVID consultation
Miriam Dominguez Blasco (Sevilla, Spain), Carlos Carrera Cueva, Maria Rosario Ruiz Serrano De La Espada, Pedro Francisco García Tamayo, Maria Dolores Nuñez Ollero, Maria Dolores Ucero León

Nebulised medications in secondary care: Rising to the challenge
MAX BETTANY (Liverpool, United Kingdom)
Disease(s): Respiratory critical care, Airway diseases, Interstitial lung diseases
Method(s): Respiratory intensive care, Epidemiology, General respiratory patient care, Physiology, Public health, Cell and molecular biology, Imaging, Endoscopy and interventional pulmonology, Pulmonary function testing
Chairs: Pedro Jorge Marcos Rodriguez (A Coruña, Spain), Chair to be confirmed

PA4024:
High serum HIF-1α levels are associated with intensive respiratory support in community acquired pneumonia
Noelia Carrion Collado (Valencia, Spain), Ana Comes Raga, Francisco Sanz Herrero, Goitzane Marcaida Benito, Estrella Fernández-Fabrellas

PA4025:
A population-based study to estimate the incidence rate of hospitalized community-acquired pneumonia in adults in Greece
Adamadia Liapikou (Athens, Greece), Vasiliki Kossyvaki, John Skiadas, Damianos Menegas, Cristina Méndez, Elizabeth Begier, Bradford D. Gessner, Claudia Schwarz, Haralampos Miltonis, Vasilios Tsimihodimos, Athanasios Konstantinidis, Gerasimos Baxevanos, Theodora Argiriadou, Chrysavgí Terrovitou, Michael Toumbis, Study Egnatia Group

PA4026:
Activity and isoferment spectrum of serum lactate dehydrogenase in patients with community-acquired pneumonia associated with non-alcoholic fatty liver disease
Roman Razumnyi (Dniprop, Ukraine)

PA4027:
Impact of isolation for the suspicion of COVID-19 on bacterial pneumonia patients
Akiko Tamura (Tokyo, Japan), Manabu Murakami, Hiroshi Okamoto, Torahiko Jinta

PA4028:
Adiponectin in patients with community-acquired pneumonia: a prospective cohort study
Arnold Dungu (Kopenhagen, Denmark), Camilla Koch Ryrsø, Maria Hein Hegelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Daniel Faehrlov-Jepsen, Birgitte Lindegaard

PA4029:
Analysis of complications of community-acquired pneumonia (CAP) in Anti-Terrorist Operation / Joint Forces Operation (ATO / JFO) participants
Nataliia Popenko (Kyiv, Ukraine)

PA4030:
Antioxidative stress markers in obese patients with community-acquired pneumonia
Tatiana Dumintras (Chisinau, Republic of Moldova), Diana Fetcu-Mereuta, Sergiu Matcovschi, Livi Grib, Lilia Andronache, Virginia Cascaval, Valeriana Pantea, Valentin Gudumac

PA4031:
Delta Neutrophil Index, C-Reactive Protein and IL-8 as Markers of Sepsis
Pavlina Peneva (Varna, Bulgaria), Silviya Nikolova, Yana Bocheva

PA4032:
Changes in the pathogen spectrum of hospitalized adults with community-acquired pneumonia in Fujian Province: a multicenter, prospective study from 2012 to 2018
Hongru Li (Fuzhou (Fujian), China), Fan Wu, Jian Wu, Nenglun Xu, Ming Lin, Wengxiang Yue, Yusheng Chen

PA4033:
Phenotypic characteristics of Streptococcus pneumoniae in patients admitted to intensive care unit due to bacteremic pneumococcal pneumonia
Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Luis Alberto Ruiz Iturriaga, Marta García Clemente, Pedro Pablo España Yandiola, Leyre Serrano Fernández, Noelia Carrión Collado, Julia Herrero Huertas, Rafael Zalacaín Jorge, Estrella Fernández-Fabrellas

PA4034:
Host transcriptomic signature for infection in patients with suspicion of LRTI undergoing bronchoscopy
Andreas Hoheisel (Leipzig, Germany), Desiree Schumann, Kathleen Jahn, Nina Khanna, Matthias Herrmann, Andrei Darie, Silvio Ragozzino, Sabine Kuster, Werner Strobel, Hans Hirsch, Michael Tamm, Daiana Stolz

PA4035:
Model-Based Dosing Optimization of Teicoplanin in Critically Ill Patients
SUNG WOOK KANG (Seoul, Republic of Korea), Hyeong Geun Jo, Eun Kyoung Chung, Sandy Jeong Rhie, Cheon Woong Choi

PA4036:
Serum copeptin and Serum albumin as markers of severity for community acquired pneumonia
Vaibhav Padashetti (Kalaburgi, India), Mahesh Pa, Jayraj Bs

PA4037:
Late Breaking Abstract - Real-world effectiveness of remdesivir for hospitalized patients with COVID-19: systematic review and meta-analysis
James Jarrett (Uxbridge, United Kingdom), Lianne Barnieh, Robert L. Gottlieb, Jakob J. Malin, Roger Paredes, Rachel Beckerman, Rikisha Gupta, Sushanth Jeyakumar, Nathaniel J. Smith, Armando Texeiro-Pinto

PA4038:
Validation of LDSA/ATS guidelines for ICU admission in very elderly patients with community-acquired pneumonia
Miquel Ferrer Monreal (Barcelona, Spain), Catia Cilloniz Campos, Juan Manuel Pericas, Leyre Serrano, Raul Mendez, Rosario Menendez, Luis Alberto Ruiz, Antoni Torres
### Thematic poster: Biomarkers and lung function in COPD exacerbation

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>Airway diseases</td>
<td>General respiratory patient care, Imaging, Pulmonary function testing, Epidemiology, Physiology, Pulmonary rehabilitation, Public health</td>
<td>Bernardino Alcazar Navarrete (Cájar, Spain), Andrea Bianco (Napoli, Italy)</td>
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</table>

| PA4044 | How COPD patients with Gln27Glu polymorphism utilize exacerbation-related drugs? | Kostiantyn Dmytriiev (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytriiev |
| PA4045 | Role of ADRB2 gene haplotypes in the clinical course of COPD | Kostiantyn Dmytriiev (Vinnitsa, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Yuliia Smereka, Dmytro Dmytriiev |
| PA4046 | Serum amyloid A (SAA) as a predictor of chronic obstructive pulmonary disease (COPD) exacerbations. | Daria Koval (Dnipropetrovsk, Ukraine) |
| PA4047 | Resistin identifies individuals with reduced lung function in a healthy aging cohort. | Ivette Buendia Roldán (México D.F, Mexico), Andy Ruiz, Andrea Espinosa-Arellano, Iliana Herrera, Leslie Chavez-Galan, Moises Selman |
| PA4048 | Activity of platelet von Willebrand factor in stable patients with COPD in terms of cardiovascular risk. | Olena Kovalenko (Dnipropetrovsk, Ukraine), Victoria Rodonova, Olha Boiko |
| PA4049 | Connection between markers of local and systemic inflammation in stable COPD | Daria Koval (Dnipropetrovsk, Ukraine), Bohdana Basina, Nataliia Kravchenko, Tetiana Kirieieva, Uliya Bershadenko |
| PA4050 | The prevalence of prolonged QTc and associated risks of starting macrolide treatment | Benjamin Allison (Salisbury, United Kingdom), Andras Bikov |
| PA4051 | Predictive value of caspase-8 in hypertension development in COPD patients | Volodymyr Tverezovskiy (Kharkiv, Ukraine), Valery Kapustnyk |
| PA4052 | The correlation between blood eosinophilia and clinical characteristics in chronic obstructive pulmonary disease patients | Ibtheil Khouaja (Tunis, Tunisia), amal chennoufi, Chirine Moussa, Houda Rouis, Takwa Bejaoui, Marwa Bougacha, Syrine Neji, Sarra Zoueche, Amel Khattab, Leila Bayahi, Ines Zendah, Sonia Maalej |
| PA4053 | Preserved Ratio Impaired Spirometry (PRISM) and increased arterial stiffness (AS) | Otto Chris Burghuber (Wien, Austria), Marie Kathrin Breyer, Robab Breyer-Kohansal, Patricia Puchhammer, Alina Ofenheimer, Christoph Kaufmann, Thomas Weber, Sylvia Hartl |
PA4054  Role of the lower limit of normal in COPD diagnosis.
Elisa Martinez Besteiro (Madrid, Spain), Ana Sofia Martin Hernandez, Marta Solis Garcia, Laura Garcia Castellanos, Mateo Hevia Menendez, Jose Maria Eiros Bachiller, Celeste Marcos, Rosa Maria Gomez-Punter, Elena Avalos Perez-Urria, Gorane Iturricastillo Gutierrez, Julio Ancochea Bermudez

PA4055  Impulse oscillometry as a rule-out method for emphysema
Allan Klitgaard (Vejle, Denmark), Anders Løkke, Ole Hilberg

PA4056  Association between thoracic muscle mass assessed by high-resolution computed tomography and static lung volume in patients with COPD - a pilot study
Mia Solholt Godthaab Brath (Vadum, Denmark), Esben Bolvig Mark, Jens Brøndum Frøkjær, Pernille Veiss-Pedersen, Lasse Riis Østergaard, Henrik Høggaard Rasmussen, Ulla Møller Weinreich

PA4057  What are the best spirometric predictors of COPD progression?
Daria Koval (Dnipropetrovsk, Ukraine), Bohdana Basina, Tetiana Pertseva, Nataliia Kravchenko

PA4058  Effect of an early multidisciplinary respiratory (MDT) in-reach review of Airways Disease exacerbations (ADE) in an acute general hospital on discharges and length of stay (LOS)
Paul Ellis (Solihull, United Kingdom), Alain Al Helou, Gajan Chellappah, Kayleigh Jones, Adel Mansur, Rahul Mukherjee

PA4059  The language COPD patients use to describe exacerbations: a qualitative study
Allan Klitgaard (Vejle, Denmark), Richard Russell, Helena Cummings, Ray Oak Usman, Sarah Macfadyan, Judith Cohen, Tamsin Morris, Hana Mullerova, Yang Xu, Anne Hutchinson

PA4060  Predicting 3-month respiratory readmission in a Scottish COPD cohort
Chris Carlin (Glasgow, United Kingdom), Shane Burns, Anna Taylor, Grace Cox, Paul Mcginness, David Lowe

PA4061  Restrictive and obstructive lung patterns and postoperative pulmonary complications after cardiac surgeries: A prospective cohort study
Hasan Allah Sadeghi (Teheran, Islamic Republic of Iran), Mahsa Mirdamadi, Mahmood Sheikh Fathollahi, Sadeghi Sarina

PA4062  Preadrenomedullin and copeptin are more sensitive and specific biomarkers for the prediction of mortality in stable COPD than fibrinogen: An analysis of the COSYCONET study

PA4063  Comparison of predictive properties between tools of patient-reported outcomes: exacerbation and admission due to exacerbation in subjects with chronic obstructive pulmonary disease.
Koichi Nishimura (Kyoto, Japan), Mio Mori, Ryo Sanda, Masaaki Kusunose

TP-20 in thematic poster area  Session 462  13:00 - 14:00

Thematic poster: COVID basic science

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

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

Chairs : Holly R. Keir (Dundee (Angus), United Kingdom), Natalia El-Merhie (Giessen, Germany)

PA4064  Experimental SARS-CoV-2 human challenge in young adults
Alex Mann (London, United Kingdom), Ben Killingley, Mariya Kalinova, Arun Anandakumar, Alison Boyers, Brandon Londt, Nicolas Noulin, Christopher Chiu, Andrew Catchpole

PA4065  Dynamics and Heterogeneity of the Lung Immunopathology in Severe COVID-19

PA4066  Impact of the NRF2 activator, stabilised synthetic sulforaphane, on systemic inflammation in COVID19: results from the STAR-COVID19 trial
Merete Bridget Long (Dundee, United Kingdom), Yan Hui Giam, Hani Abo-Leyah, Rebecca C Hull, Holly R Keir, Thomas Pembroke, Daniela Alferes De Lima, Benjamin J M New, Sarah Inglis, Themnalar Vadiveloo, Graeme Macleman, Amy Gilmour, Chloe Hughes, Lilja Delgado, Albena T Dinkova-Kostova, James D Chalmers
Covid-19 and Cytokine Storm
Lucia Lopez Vergara (Zaragoza, Spain), Laura Torralba, Cristina De Diego, Ana Lasierra, Raquel Lahoz, Claudia Abadia, Pablo Ruiz De Copegui, Javier Godino, Alberto Cebollada, Beatriz Jimeno, Salvador Bello

Lymphocytic exhaustion in Covid-19 patients
Cristina De Diego Ramos (Zaragoza, Spain), Laura Torralba, Lucía López, Pablo Ruiz De Gopegui, Raquel Lahoz, Claudia Abadia, Ana Lasierra, Alberto Cebollada, Javier Godino, Beatriz Jimeno, Salvador Bello

A study on the morbid histopathological changes in COVID-19 patients with or without comorbidities using minimally invasive tissue sampling
Animesh Ray (Kolkata (West Bengal), India), Ayush Goel, Deepali Jain, Prasenjit Das, Sudheer Arava, Geetika Singh, S Arulselvi, Naveet Wig

The features of thrombogenesis in COVID-19-associated pneumonia compared to bacterial pneumonia: the key role of fibrinolysis
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Katerina Dyahovets

Cells and cytokines analysis in bronchoalveolar lavage (BAL) fluid during or after non-severe COVID-19 pneumonia.
Camille Rolland-Debord (clermont-ferrand, France), Laurence Pieroni, Farah Bejar, Audrey Milon, Antoine Parrot, Anne Fajac, Jacques Cadranel

Histopathologic changes in lung tissue after Covid-19 pneumonia
Jasna Tekavec-Trkanjec (Zagreb, Croatia), Arijana Pačić, Čedna Tomasović-Lončarić, Darjan Ranilović, Divo Ljubičič

Impact of COVID-19 on bacterial respiratory isolates (2018-2021) from a UK tertiary cardio-thoracic ICU
Vidya Krishna (Chennai, India), Sundeep Kaul, Pradeep Panicker, Jaymin Morjaria, Anne Hall

T-cell responses to SARS-CoV-2 in patients during acute disease, convalescence and after vaccination

Cell surface GRP78 functions as an alternative virus entry receptor on monocytes during SARS-CoV-2 infection
Bing Han, Yibing Lü, Dominique Moser, Tobias Woehrle, Xiaoqi Zhou, Alexander Choukér, Ping Lei

Human pulmonary artery endothelial cells upregulate ACE2 expression in response to iron-regulatory elements: potential implications for SARS-CoV-2 infection
Quezia K Toe (Essex, United Kingdom), Theo Issitt, Abdul Mahomed, Charles Sturges, Stephen J Wort, Gregory Quinlan

Could biological disease modifying anti rheumatic drugs (bDMARDs) and small molecules have a key role in preventing COVID-19 infection?
Fiammetta Danzo, Marina Saad, Sarah O'Donnell, Debra Spitaleri, Linda Pelosi, Anna Casartelli, Dejan Radovanovic, Pier Carlo Sarzi-Puttini, Pierachille Santus

Circulating cDNA is an excellent marker of severity in Covid-19
Lucia Lopez Vergara (Zaragoza, Spain), Cristina De Diego, Laura Torralba, Ana Lasierra, Claudia Abadia, Raquel Lahoz, Pablo Ruiz De Copegui, Javier Godino, Alberto Cebollada, Beatriz Jimeno, Salvador Bello

T1-inflammatory endotype in patients with severe COVID-19
Takehiro Hasegawa (Hamburg, Germany), Yoshiaki Miyamoto, Niina Iwanaga, Maho Yoshida, Yamashita Kazuto, Yamashita Sayo, Tamada Eiya, Kohjin Suzuki, Kenta Noda, Yoko Tabe

Viral kinetic modeling and simulation of the impact of non-pharmaceutical COVID-19 interventions in different countries: model-informed respiratory disease trial design
Igor Faddeenkov (Lyon, France), Simon Arsène, Claire Couty, Natacha Go, Solène Granjeon-Noriot, Daniel Smid, Riad Kàhoul, Ben Illigens, Jean-Pierre Boisot, Aude Chevalier, Lorenz Lehr, Christian Pasquali, Alexander Kulesza

Late Breaking Abstract - SARS-CoV-2 load in exhaled end-tidal breath fine aerosol condensates among acutely symptomatic COVID-19 cases

Late Breaking Abstract - SARS-CoV-2 RNA in exhaled air of hospitalized COVID-19 patients
Corné van den Kieboom (Utrecht, Netherlands), Lisa Curver, Kjerstin Lanke, Dimitri Diavatopoulos, Gijs Overheul, Mihai Netea, Jaap Ten Oever, Reinout Van Creveld, Karin Mulders-Manders, Frank Van De Veerdonk, Heiman Wertheim, Jeroen Schouten, Janette Rahamat-Langendoen, Ronald Van Rij, Teun Bousema, Arjan Van Laarhoven, Marien De Jonge
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<tr>
<th>ID</th>
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<tr>
<td>PA4084</td>
<td>Disseminated tuberculosis is associated with more false negative interferon gamma release assay results compared to localized tuberculosis</td>
<td>Shagun Shah (warrington, United Kingdom), Michael Eisenhut</td>
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<td>PA4085</td>
<td>Mutational profile of gyrA and gyrB genes associated with fluoroquinolones (FQs) resistance among drug resistant tuberculosis patients: an observational study</td>
<td>Vikram Bajiya (Jodhpur, India), Chaina Ram Choudhary, Gopal Purohit, Ashok Kuwal, Ankita Mohanty</td>
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<tr>
<td>PA4086</td>
<td>Variability of resistance of Mycobacterium tuberculosis based on whole genome sequencing in patients with MDR and XDR-TB in the Kharkiv region, Ukraine</td>
<td>Dmytro Butov (Kharkiv, Ukraine), Tetina Butova, Mykhailo Kuzhko, Nataliia Rudova, Anton Tkachenko, Michael Harris, Darrell Hurt, Alex Rosenthal</td>
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<tr>
<td>PA4087</td>
<td>The alternation of gut microbiome composition can predict latent tuberculosis infection status in poorly-controlled diabetic patients: A prospective case-control study</td>
<td>Jann-Yuan Wang (Taipei, Taiwan), Hung-Ling Huang, Inn-Wen Chong, Jinn-Moon Yang, Po-Liang Lu</td>
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<td>PA4088</td>
<td>Next generation sequencing reveals miR-431-3p and miR-1303 as immune-regulatory microRNA for active pulmonary tuberculosis through targeting MDR1/MMP16/RIPOR2 and ATG5 signaling</td>
<td>Yung-Che Chen (Kaohsiung, Taiwan), Chao-Chien Wu, Meng-Chih Lin, Chang-Chun Hsiao, Chiu PIng Lee</td>
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<td>PA4089</td>
<td>Role of complete-thoracentesis in TB-pleural-effusions, precluding residual-pleural-thickening, a case-control study(300 cases)?</td>
<td>Abdul Rasheed Qureshi (Lahore, Pakistan), Muhammad Irfan</td>
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<td>PA4090</td>
<td>Utility of the provocation coupled with the drug reintroduction test in the diagnosis of a hypersensitivity reaction to fixed-dose combination (FDC) of anti-TB drugs</td>
<td>Aissa Sana (Sousse, Tunisia), Omrane Asma, Ben Jazia Rahma, Benzarti Wafa, Knaz Asma, Kacem Amani, Gargouri Imen, Abdelghani Ahmed, Hayouni Abdelaziz</td>
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<td>PA4091</td>
<td>Comparison of Indigenous tuberculin skin test (TST) antigen solution developed in India with Tubersol in diagnosing latent tuberculosis</td>
<td>Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Natesan Priya, Thangakunam Balamugesh, Barney Isaac, Prasanna Samuel</td>
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<td>PA4092</td>
<td>Study of CD27, CD38, HLA-DR and Ki-67 immune profiles for the characterization of actetuberculosis, latent infection and cured disease.</td>
<td>Sergio Diaz Fernández (Mexico, Spain), Raquel Villar-Hernández, Zoran Stojanovic, Marco Antonio Fernández-Sanmartín, Maria Luiza De Souza-Galvão, Guillermo Tolosa, Adrián Sánchez-Montalva, Jorge Abad, Maria Angeles Jiménez-Fuentes, Guillem Safont, Iris Romero, Josefina Sabría, Cristina Prat, Jose Dominguez, Irene Latorre</td>
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<td>PA4093</td>
<td>Diagnostic accuracy of molecular assays for drug susceptibility testing of M.tuberculosis using a raw sputum and isolates strains.</td>
<td>Valeria Crudu (Chisinau, Republic of Moldova), Sofia Alexandru, Nelly Ciobanu, Alexandru Codreanu, Ecaterina Noroc, Dumitru Chesov, Ted Cohen</td>
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<td>PA4094</td>
<td>Comparison of QuantIFERON-TB Gold Plus vs tuberculin skin test in a healthy population in Mexico</td>
<td>Adrian Rendon (Monterrey, Mexico), Adrian G. Rosas Taraco, Jorge Martín Llaca Díaz, Berenice Soto Monciváis, Adriana Gonzalez Gutierrez, María José Sánchez Otero, Aurora Eloisa Mercado Sánchez</td>
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<td>PA4095</td>
<td>Utility of GeneXpert MTB/Rif for detection of drug resistance in tuberculous pleural effusion(TPE) in high endemic areas</td>
<td>Radhika Banka (Mumbai (Maharashtra), India), Swapna Naik, Jai Mullerpattan, Lancelot Pinto, Zarir Udwadia, Camilla Rodrigues</td>
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<tr>
<td>PA4096</td>
<td>Comparing drug susceptibility testing for drug resistant TB using TB PCR and WGS</td>
<td>Mirae Park (London, United Kingdom), Giovanni Satta, Onn Min Kon</td>
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The role of autophagy associated gene expressions in the progression from latent TB infection to active pulmonary TB disease
Ying-Tang Fang (Kaohsiung City, Taiwan), Yung-Che Chen

A retrospective audit assessing the efficacy of the GeneXpert test in diagnosing TB in a paediatric population
Robert White (LEICESTER, United Kingdom), Srinidhi Bandi

Multiparameter immunoprofiling differentiates progressive from nonprogressive nontuberculous mycobacteria lung disease (NTM-LD)
Paige Marty (Rochester, United States), Balaji Pathakumari, Virginia Van Keulen, Maleeha Shah, Tobias Peikert, Patricio Escalante

Identification of lung macrophage secreted biomarkers for the development of rapid, accurate and affordable point-of-care tuberculosis diagnosis test suitable in low income settings.
Paulin Essone (Lambaréné, Gabon), Bayode Adegbite, Ayodele Añibi, Bertrand Lell, Ayola Adegikura, Peter Kremsner, Martin Grobusch, Selidji Agnandji

Changes in Structure and Stiffness of the Lung Extracellular Matrix in Lung Cancer
Maria Narciso (Barcelona, Spain), Natalia Díaz-Valdivia, Constança Junior, Jorge Otero, Jordi Alcaraz, Daniel Navajas, Ramon Farre, Isaac Almendros, Núria Gavara

Endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) performance for the determination of Programmed Death Ligand-1 (PDL-1) expression in non-small cell lung cancer (NSCLC)
Giusi Giardoni (Grenoble, France), Nicolas Girard, Florencio De Fraipont, Chantal Decroisette, Sylvie Gazzerie, Denis Moro Sibilot, Anne Claire Toffart

Extracellular vesicles (EVs) as diagnostic tools in the phenotypic determination of lung tumors
Maureen Cambier (Liège, Belgium), Florian Muller, Monique Henket, Claire Remacle, Julien Guiot, Ingrid Struman

Non small cell lung cancer patients with EGFR mutation: therapeutic sequences in a real life setting
Giulia Berardi (Grenoble, France), Nicolas Girard, Florence De Fraipont, Chantal Decroisette, Sylvie Gazzerie, Denis Moro Sibilot, Anne Claire Toffart

Detection of lung cancer using a single blood biomarker and tobacco history in a high risk cohort
Morten Borg (Aalborg SV, Denmark), Line Nederby, Sara Wen, Torben Hansen, Anders Jakobsen, Rikke Andersen, Ulla Möller Weinreich, Ole Hilberg

Involvement of TLRs and WNT pathway in lung cancer in COPD patients
Amanda Iglesias Coma (Palma, Spain), Noemi Ceron, Esther Martínez, Aina Martin, Antonia Obrador, Jaume Saule

Monika Bratová (Brno 35, Czech Republic), Kristian Brat, Jana Skrickova, Karolina Hurdalkova, Milos Pesek, Martin Svaton, Libor Havel, Leona Koubkova, Michal Hrnciarik, Ondrej Fischer, Jana Krejci

ADAMTS1 as a potential tumor suppressor in lung adenocarcinoma
Chao-Yuan Chang (Kaohsiung, Taiwan), Hsiao-Chen Lee, Kuan Li Wu, Ya-Ling Hsu

Blood biomarkers as predictors of treatment response in advanced NSCLC patients treated with immune checkpoint inhibitor therapy
Karolien Vekens (Jette, Belgium), Charlotte Dethier, Lore Decoster

Cancer associated fibroblasts subtypes are associated with histological features, immune environment and prognosis in resected non small cell lung cancer
Nicolas Poté (Paris, France), Edouard Guenzi, Kinan El Hussein, Alice Guyard, Arnaud Mailleux, Pierre Mordant, Anne Couvelard, Bruno Crestani, Aurélie Cazes, Gérard Zalcman
### PA4112

**Analysing the molecular landscape of squamous cell carcinoma through simultaneous targeted DNA and RNA-based next-generation sequencing**

Joanna Moes-Sosnowska (Warsaw, Poland), Monika Skupinska, Urszula Lechowicz, Paulina Skronska, Ewa Szczepulska-Wojcik, Aneta Stepniwska, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orlowski, Delfina Popiel, Maciej Wieczorek, Joanna Chorostowska-Wynimko

### PA4113

**Effects of the tumor microenvironment and molecular forms of alpha1-antitrypsin on NSCLC viability**

Anna Gründing (Hannover, Germany), Tobias Welte, Sabina Janciauskiene

### PA4114

**The Role of Interleukin 6 and Cyclooxygenase 2 In Progressivity and Metastatic Process in Andavce Non Small Cell Lung Cancer**

Arif Santoso (Makassar, Indonesia), Rasiha Rasiha, Sitti Munawwarah, Ahmad Mustang

### TP-23 in thematic poster

**Session 465 13:00 - 14:00**

**Thematic poster: From basic to translational research in idiopathic interstitial pneumonias**

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

**Method(s):** Cell and molecular biology, Physiology, Imaging, Endoscopy and interventional pulmonology

**Chairs:** Nikhil Hirani (Edinburgh (Edinburgh), United Kingdom), Manuela Funke-Chambour (Bern, Switzerland)

#### PA4115

**Silencing MMP7 expression with a lung-targeted RNAi molecule limits fibrosis and preserves pulmonary function in bleomycin-injured rats**

Tingting Yuan (VERONA, United States), Anthony Nicholas, Natalia Lakomski, Maria Afrazi, Holly Hamilton, Julia Hegge, James Hamilton, Tao Pei, Erik Bush

#### PA4116

**Fibroblast-like culture from bronchoalveolar lavage of patient with idiopathic pulmonary fibrosis**

Laura Bergantini (siena, Italy), Sara Gangi, Elena Bargagli, Miriana D'Alessandro, Dalila Cavallaro, Paolo Cameli

#### PA4117

**Biomarker analysis of bronchoalveolar lavage (BAL), bronchoabsorption (BA) and serum in Idiopathic Pulmonary Fibrosis (IPF) and healthy volunteers (HV)**

Nikhil Hirani (Edinburgh (Edinburgh), United Kingdom), Feng Li, Adam Marshall, Cecilia Boz, Sarah McNamara, Lisa Nicol, Williamson Bradford

#### PA4118

**Dysfunctional club cells differentiation in idiopathic pulmonary fibrosis**

Bénédicte SAISSAC (Montpellier, France), Arnaud Boudrin, Fort Petit Aurélie

#### PA4119

**Mannose 6-phosphate/insulin-like growth factor 2 receptor 2 receptor in fibrosing phenotypes of diffuse parenchymal lung diseases**

Eva Tedlova (Bratislava, Slovakia), Vladimir Leksa, Magda Suchankova, Eszter Zsemlye, Jan Urban, Martina Ganovska, Elena Tibenska, Kinga Szaboova, Frantisek Sandor, Marta Hajkova, Kristina Kluckova, Maria Bucova

#### PA4120

**Discovery of intra-parenchymal adipose tissue as a component of tissue remodeling in pulmonary fibrosis**


#### PA4121

**Prolyl-3-hydroxylase 4 (P3H4), a novel player in collagen synthesis and secretion in lung fibroblasts**

Ceylan Onursal (München, Germany), Larissa Knüppel, Caressa D. Liemman, Julianne Merl-Phan, Rudolf Hatz, Jürgen Behr, Kristian Unger, Julia Hess, Stefanie M. Hauk, Brendan Lee, Claudia Staab-Weißenbichler

#### PA4122

**Role of IL17 A/F in experimental lung fibrosis**

Marie Moog (Hannover, Germany), Franziska Aschenbrenner, Danny Jonigk, Immo Prinz, Tobias Welte, Martin Kolb, Ulrich A. Mauß

#### PA4123

**Role of CXCL13 in animal model of lung fibrosis and human ILDs.**

Aya Watanabe (Kyoto, Japan), Hasegawa Koichi, Ashino Shigeru, Santosh Kumal Gothwal, Tomohiro Handa, Hiroshi Date, Toyohiro Hirai, Michael Haas, Fionnuala Mculee Eser, Ken Fujimura, Justus Veerkamp, Hanna Czernacka, Markus Koch, Ulrich Nielsch, Atsuyasu Sato

#### PA4124

**Idiopathic pulmonary fibrosis is associated with increased levels of FACIT collagen biomarkers.**

Jannie M. B. Sand (Herlev, Denmark), Annika Hummersgaard Hansen, Emilie A. Madsen, Jeppe Thorlacius-Ussing, Thomas S. Prior, Morten A. Karsdal, Diana J. Leeming, Elisabeth Bendstrup

#### PA4125

**Inhibitory role of retinoic acid-related orphan receptor alpha RORA in human lung fibroblast activation.**

Eliza Tsitoura (Heraklion (Crete), Greece), Dimitra Maria Zevla, Bruno Crestani, Katerina Antoniou
Increased expression of β-1,4-Galactosyltransferase-I in Idiopathic Pulmonary Fibrosis, a basis for further therapeutic applications
Alberto Ricci (Roma (RM), Italy), Claudia De Vitis, Dario Pizzirusso, Giulio Guerrieri, Silvia Castelli, Antonella Carraturo, Alba Moretta, Claudia Salvucci, Maria Chianese, Tiria Sordi, Rita Mancini, Michela D’Ascanio

PERIPHERAL BLOOD IMMUNOLOGICAL PROFILE OF IDIOPATHIC PULMONARY FIBROSIS
Nuria Mendoza Barco (Premià de Dalt (CT), Spain), Sandra Casas-Recasens, Fernanda Hernandez, Tamara Cruz, Núria Albacar, Gemma López-Saiz, Xavier Alzina, Alvar Agusti, Jacobo Sellarés, Rosa Faner

Proteomic profiling for the development of new serum based diagnostic and prognostic biomarkers in Progressive Pulmonary Fibrosis.
Ermanno Puxeddu (Roma (RM), Italy), Giuseppe Cillis, Luigino Calzetta, Francesco Cavalli, Gianluigi Sergiacomi, Immacolata Rossi, Paola Rogliani

Expression of PD-1/PD-L1 axis and CD4/CD8 ratio in mediastinal lymph nodes of human and experimental lung fibrosis
Theodoros Karampitsakos (Patras, Greece), Apostolos Galaris, Serafeim Chrysikos, Ourania Papaioannou, Ioannis Vamvakaris, Aris Anagnostopoulos, Grigoris Stratoukis, Matthias Katsaras, Fotios Sampsonas, Katerina Dimakou, Eftrosyni Manali, Spyridon Papiris, Demosthenes Bouros, Petros Bakakos, Vassilis Aidinis, Argyris Tzouveleks

Bleomycine-induced Pulmonary fibrosis alters the functioning of the respiratory neural network
nicolas vuiron (Bobigny, France), Céline-Hvda Yegen, Dominique Marchant, Emilie Boncoeur

Profibrotic effects analysis of bleomycin administration in Swiss CD-1 nude mice
Kristiyan Stiliyanov Atanasov (Palma de Mallorca, Spain), Joan Truyols Vives, Gabriel Escarrer, Cristina Gómez, Teresa De Francisco, Aina Martin Medina, Carlos Rio, Ernest Sala-Llinàs, Josep Mercader-Barceló

Effects of a palmitate and fructose rich diet on lung fibrosis and inflammation markers in a murine model
Kristiyan Stiliyanov Atanasov (Palma de Mallorca, Spain), Cristina Gómez, Joan Truyols Vives, Aina Martín-Medina, Gabriel Escarrer, Ernest Sala-Llinàs, Josep Mercader-Barceló

Uncovering collagen VII in lungs of patients with idiopathic pulmonary fibrosis
Arturo Ibáñez Fonseca (Lund, Sweden), Barbora Michalíková, Liang Xiong, Hans Brunström, Arturo Ibáñez-Fonseca, Sofia Lundin, Göran Dellgren, Anna Löfdahl, Linda Elowsson Rendin, Gunilla Westergren-Thorsson

Research priorities for future pulmonary hypertension research: a James Lind Alliance priority setting partnership
Jason Weatherald (Edmonton, Canada), Hina Iqbal, Lisa Mielniczuk, Abdul Rehman Syed, Jennifer Howard, Nicole Dempsey, Tamara Rader, John Swiston, Steeve Provencher

Deep learning of regulatory regions discovers enhancer variants implicated in PAH
Tobias Tilly (Cambridge, United Kingdom), Kathryn Auckland, Reshma Nibhani, Jennifer Martin, N Nihr Bioresource - Rare Diseases, N National Cohort Study Of Idiopathic And Heritable Pah, Nicholas W. Morrell, Pietro Lio’, Stefan Gräf

End-stage COPD patients with severe pulmonary hypertension have less airspace enlargement in histologic samples of explanted lungs
Katarina Zeder (Graz, Austria), Leigh M. Marsh, Alexander Avian, Luka Brcic, Anna Binmhuber, Philipp Douschan, Vasile Foris, Teresa Sassmann, Panja Böhm, Konrad Hoetzenecker, Grazyna Kwapiszewska, Horst Olschewski, Gabor Kovacs

Optical imaging outperforms micro-CT towards revealing 3D microvasculature in whole lung tissue
Birger Tielemans (Leuven, Belgium), Fopke Marain, Felix De Bie, Montserrat Coll-Llado, Sebastian Munck, Jan Deprest, Jim Swoger, Greetje Vande Velde

Correlation between right ventricular dysfunction and plasma protein profile in pulmonary hypertension
Stephen Wort (London, United Kingdom), Andrew Constantine, Christopher J Rhodes, Piera Ricci, Wei Li, Laura C Price, Colm McCabe, John Wharton, Martin R Wilkins, Luke S Howard, Konstantinos Dimopoulos

Impulse oscillometry in the assessment of patients with idiopathic arterial hypertension: a pilot study.
Monica Corso Pereira (Campinas (SP), Brazil), Helena Villas Bôas, Ilma Paschoal

TP-24 in thematic poster area
Session 466
13:00 - 14:00

Thematic poster: Basic science in pulmonary hypertension

Disease(s): Pulmonary vascular diseases, Airway diseases

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

Chairs: Christina Eichstaedt (Heidelberg, Germany), Grazyna Kwapiszewska-Marsh (Graz, Austria)

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Impulse oscillometry in the assessment of patients with idiopathic arterial hypertension: a pilot study.
Monica Corso Pereira (Campinas (SP), Brazil), Helena Villas Bôas, Ilma Paschoal
PA4140  NTP42 alleviates experimental pulmonary arterial hypertension and promotes beneficial right ventricular adaptation, preserving right heart function
Eamon Mulvaney (Dublin 4, Ireland), Fabiana Renzo, Rui Adão, Glória Conceição, Emilie Dupre, Charles Laurent, Pedro Mendes-Ferreira, Carmen Brás-Silva, B. Therese Kinsella

PA4141  IL-11 increases levels and activates circulating fibrocytes in different pulmonary hypertension animal models.
Ines Roger (Valencia, Spain), Javier Milara, Paula Montero, Nada Belhadj, Julio Cortijo

PA4142  IL-1β may contribute to NGF-induced alterations in pulmonary hypertension
Clement BOUCHET (Pessac, France), Guillaume Cardouat, Precilia Fernandes, Paul Robillard, Roger Martian, Christelle Guibit, Veronique Michel

PA4143  Quantitative immunohistochemistry of PDGFRα, PDGFRβ, c-KIT and CSF1R in human PAH lung samples
Ravikumar Sitapara (San Diego, United States), Aneta Gandjeva, Rubin Tuder, Lawrence Zisman

PA4144  Extended Pulmonary Retention and Tissue Distribution of Inhaled Liposomal Iloprost (L608)
Pei Kan (Taipei, Taiwan), Ko-Jie Chen

PA4145  The microbiota affects the development of the lung vascular tree in rats
FIRMIN AKOUUMIA (Paris, France), Maria-Rosa Ghigna, Julie Cadiou, Amandine Lashermes, Julie Riverie, Stephanie Gouriou, Rosyne Lagrangeille, Geneviève Hery-Arnaud, Marc Humbert, Nicolas Lapaque, Sylvia Cohen-Kaminsky

PA4146  HS135: Novel Activin & GDF Ligand Trap for the Treatment of Pulmonary Hypertension (PH)
Gauthier Schang (Montreal, Canada), Mathilde Poujol De Mollens, Jean-Francois Denis, Cristina Chauvet, Emile Brulé, Vann Ganesh, Julia Schoelermann, Gilles Tremblay, Ilia Tikhomirov, Maureen O'Connor-Mccourt

PA4147  Basement membrane regulates neointimal hyperplasia in pulmonary hypertension due to left heart disease (PHT-LHD)
Netra Nambiar Veetil (Berlin, Germany), Mariya Kucherenko, Tara Gransar, Robert Szulcek, Christoph Knosalla, Wolfgang M. Kuebler

PA4148  COX2 expression is downregulated in a shear stress magnitude-dependent manner in BMPR2-silenced HPAECs: implications for prostacyclin deficiency in PAH
Abdul Mahomed (London, United Kingdom), Abdul Mahomed, Anne Burke-Gaffney, Maziah Ghazaly, Jarka Naser, Quezia Toe, Gregory Quinlan, Stephen John Wort

PA4149  The ephrin-b2/EphB4 guidance system in pulmonary artery smooth muscle cells plays a central role in adult vascular remodeling
Sonja Rittichen (Graz, Austria), Slaven Crnkovic, Katharina Jandl, Diana Zabini, Ayse Ceren Mutgan, Panja Boehm, Konrad Hoetzenecker, Wolfgang Toller, Christine Veith, Akos Heinemann, Ralph T. Schermuly, Andrea Olschewski, Leigh M Marsh, Grazyna Kwapiszewska

PA4150  Pulmonary arterial changes in patients with end-stage COPD and pulmonary hypertension: computed tomography and histopathological study of the lungs.
Guillaume Martin (Strasbourg, France), Matthieu Canuet, Assam Labani, Antoine Wackenthaler, Irina Enache, Marie-Pierrette Chenard, Peter Dorfmüller, David Montani, Romain Kessler, Marianne Riou

PA4152  Towards a GCN2 deficient model of pulmonary veno-occlusive disease
Max Schwiengern (CAMBRIDGE, United Kingdom), Stephen Moore, Alexi Crosby, Mark Southwood, Chris Huang, Nicholas W Morrell, Stefan J Marciniak, Elaine Soon

PA4153  II-33 role in the pulmonary hypertension development in diabetic patients with coronary artery disease
Boris Shelest (Kharkiv, Ukraine), Yuliia Kovalova, Anatoliy Voitovych

TP-25 in thematic poster  Session 467  13:00 - 14:00
Thematic poster: Practice changing pleural interventions and beyond in 2022
Disease(s):  Thoracic oncology  Respiratory critical care  Airway diseases
Method(s):  Endoscopy and interventional pulmonology  Cell and molecular biology  Physiology  General respiratory patient care
Surgery  Respiratory intensive care  Imaging  Palliative care
Chair:  Mohammed Munavvar (Preston (Lancashire), United Kingdom), Rachel Mercer (Winchester, United Kingdom)

PA4154  Antiseptic pleural irrigation for adult pleural infection
Maged Hassan (Alexandria, Egypt), Basma El-Shaarawy, Asmaa Elshazly, Mohamed Gadallah, Ahmed Sadaka
A Randomized Trial Comparing the duration of the procedure using Rigid mini-Thoracoscopy and Semirigid Thoracoscopy in Undiagnosed or Malignant Pleural Effusion
Pariyakorn Padmindra (Bangkok, Thailand), Vorawut Thanthitaweewat, Thitiwat Sriprasart

Semi-rigid vs rigid pleuroscopy for the diagnosis for pleural effusion: a multi-centric study
Maria João Silva (Torres Novas, Portugal), Diana Amorim, Fernando Silva, Rebeca Natal, Michele Santis, Paulo Matos, Lourdes Barradas, Luis Ferreira, Luis Rodrigues, Salvato Feijô

Erector spinae plane (ESP) blocks and day case thoracoscopy
Avinash Aujayeb (Newcastle, United Kingdom), Jamie Mcpherson, Edward Halvey

Pleural pustule - A novel thoracoscopic appearance of pleural tuberculosis.
Venkata Nagarjuna Maturu (Hyderabad (Andhra Pradesh), India), Pratibh Prasad, Mahendra Biradar

Usefulness of pleural manometry during evacuating thoracentesis
Claudia Rodriguez Busto (Madrid, Spain), Olga Rajas Naranjo, Ana Nuñez Ares, Javier Lazaro Sierra, Paola Arrieta Narvaez, Javier Flandes Aldeyturriaga, Beatriz Morales Chacon, Andrea Albuja Hidalgo, Gianna Vargas Centanaro, Eduardo Solis Garcia, Elena Forcen Vicente De Vera, Maria Jose Bernabe Barrios

The impact of 2% lidocaine in pleural effusion pH and LDH - Real world experience
Gabriela Sofia Cancela da Fonseca Ferreira Santos (Lisboa, Portugal), André B. Matos, João Portela, Ricardo Gomes, Marina Bonnet, Jorge Soares

Tunneled pleural catheters - our experience with the first fifty patients
Nicole Fernandes (vila nova de gaia, Portugal), Luis Lázaro Ferreira, Daniel Coutinho, Carla Ribeiro, Ana Oliveira

Improving pleural procedure documentation in a district general hospital
Frederick Jarvis (Halstead, United Kingdom), Catherine Doig, Zaw Aung, Dora Amran

Pigtail catheters for pleural effusions: efficacy and safety
Ana Rita Queiroz Rodrigues (Baião, Portugal), Margarida Cruz, Ana Isabel Loureiro, Joelma Silva, Rafael Noya

An update on the management of first episode primary spontaneous pneumothorax in an Australian hospital network.
Christopher Chew (Melbourne, Australia), James Bartlett

Retrospective analysis of chest drain size and complications in spontaneous secondary pneumothorax in a District General Hospital, UK.
Thomas Moore (Buckinghamshire, United Kingdom), Martha Purcell, Ketan Patel, Katrine Steele

Has COVID-19 affected complication rate of IPC placements?
Dana Li (London, United Kingdom), Sarah Johnstone, Padmavathi Parthasarathy, Rajini Sudhir, Muhammad Tufail, Rakesh Panchal

Does intravenous sedation improve patient comfort during the insertion of tunnelled indwelling pleural catheters a pilot prospective comparison study.
Andrew Harries (Cardiff, United Kingdom), Gillian Warwick, Artemio Gonzales, Claire Tagg, Kathryn Turner, Michael Pynn, Alina Ionescu

Compliance of Pleural Procedures with BTS Pleural Guidelines within a large District General Hospital
Nafisa Hussain (Watford, United Kingdom), Alessio Navarra, Rahul Mogal

THORACOSCOPIC PRACTICES IN INDIA- A SURVEY BY INDIAN CHEST SOCIETY
Aditya Kumar Chawla (New Delhi (Delhi), India), Rakesh Chawla

Mechanical ventilation for COVID19 – new patient cluster in risk for postintubation tracheal stenosis
Goran Glodić (Zagreb, Croatia), Sonja Badovinac, Marta Koršić, Filip Popović, Denis Baričević, Draženka Srdić, Ana Baćelić Gabelica, Feda Džubur, Mateja Janković Makek, Bernard Budimir, Miroslav Samaržija

A retrospective cohort study to investigate the diagnostic yield of bronchoscopy with bronchoalveolar lavage in highly immunocompromised adult patients
Rayid Abdulqawi (Manchester, United Kingdom), Deemah AlAbdulhadi, Ahmad Aljishi, Ghadeer Alabbadi, Mohammad Hashim Khalafallah, Zainab Almusa

Late Breaking Abstract - Metered Cryospray improves patient-reported outcome measures at 6-months post-treatment, in patients with COPD with chronic bronchitis, in a randomised, sham-controlled trial
Christopher M Orton (London, United Kingdom), James Tonkin, Ley Chan, Francesca Conway, Anand Tana, Bavithra Vijayakumar, Jorine E Hartman, Cielito Caneja, Laura Avanzi, Karin Klooster, John Thornton, Jan Lukas Robertus, Dirk-Jan Slebos, Pankaj K Bhavsar, Pallav L Shah
PA4173

Late Breaking Abstract - Transbronchial biopsy by radial probe endobronchial ultrasound followed by cryobiopsy using a novel 1.1-mm diameter cryoprobe

Jung Seop Eom (Busan, Republic of Korea), Soo Han Kim, Hyun Sung Chung

PA4174

Late Breaking Abstract - Safety of ascending single and multiple doses of inhaled SIS, an isotonic aqueous solution of sodium hypochlorite, in healthy subjects

Christopher Burton (Kgs Lyngby, Denmark), Torben Balchen, Lise Wilki-Kurtzhals, Niclas Sjögren, Thomas Bjarnsholt, Elin Jørgensen, David Peick Sonne

PA4175

Late Breaking Abstract - ETDO01: A long-acting inhaled ENaC blocker, is well tolerated in humans

Paul Russell (Chalfont St Peter, United Kingdom), Kathy Woodward, Joanne Charlwood, Rachael White, Denise Wilkes, Henry Danahay, David Morris

PA4176

Late Breaking Abstract - Metformin: A potential drug candidate to restore poor corticosteroid sensitivity in obese asthmatic patients

Masako To (Saitama, Japan), Natsume Honda, Kosuke Haruki, Yasuo To

PA4177

Late Breaking Abstract - Waning of biologic effect at end of dosing interval perceived by patients with severe asthma

Johannes A Kroes (Leeuwarden, Netherlands), Lotte H G Van Hal, Liset Van Dijk, Sander W Ziehlhuis, Eric N Van Roon, Anneke Ten Brinke

PA4178

Late Breaking Abstract - Impact of erdosteine on exacerbations in moderate COPD

Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom), Alberto Papi, Clive Page, Paolo Rogliani, Roberto Dal Negro, Mario Cazzola, Arrigo Cicero, Wisia Wedzicha

PA4179

Late Breaking Abstract - Understanding how azithromycin reduces asthma exacerbations and the underlying mechanisms of macrolides

Lisa Jurak (Woolloongabba, Australia), Ian Yang, Michelle Hill, Jodie Simpson, John Upham

PA4180

Late Breaking Abstract - Achievement rate and predictive factors of the deep remission to biologics in severe asthma

Keiji Oishi (Ube, Japan), Kazuki Hamada, Yoryuki Murata, Yoshikazu Yamaji, Maki Asami, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

PA4181

Late Breaking Abstract - Identification and characterisation of selective antagonists for TMEM16A(acd) isoform for the treatment of obstructive respiratory diseases.

pierre philippe saintot (verona, Italy), Corrado Carignani, Jonathan Phillips, Caterina Virginio

PA4182

Late Breaking Abstract - A phase 3b, randomized controlled trial of gefapixant in recent-onset chronic cough

Lorecan McGarvey (Belfast, Ireland), Mandel Sher, Yuri Grigorievich Shvarts, Susan Lu, Wen-Chi Wu, Ping Xu, Jonathan Schellhout, Carmen La Rosa, Allison Martin Nguyen, Paul Reyfman, Amna Sadaf Afzal

PA4183

Late Breaking Abstract - Effects of anti-tryptase antibody in upper and lower airway of asthmatics

Lindsay Henderson (South San Francisco, United States), Kit Wong, Victor Poon, Gizette Sperinde, Rebecca Bauer, Kenta Yoshida, Chen Chen, Qi Liu, Yiling Chen, Keyi Long, Prajna Banerjee, Steven Laing, Nick Jones, Horace Rhee, Brian Leaker, Dave Singh, Peter Bradding

PA4184

Late Breaking Abstract - The antiasthmatic activity of Rho-kinase inhibitor hydroxyfasudil in the settings of experimentally induced allergic airway inflammation

Sona Franova (Martin, Slovakia), Miroslava Molt Morrisova, Lenka Kalmanova, Jarmila Palencarova, Martina Sutovska

PA4185

Late Breaking Abstract - Implications of treatable traits and treatment choices on exacerbation risk in moderate-severe asthma

Ayse Arzu Yorgancioğlu (Konak, Turkey), Ian Pavord, Guy Bradding, Paolo Pitrez, Sean Oosterholt, Abhijith Pg, Oscar Della Pasqua

PA4186

Late Breaking Abstract - International, prospective study of mepolizumab in severe asthma: REALITI-A at 2yrs

Rupert Jakes (London, United Kingdom), Cristiano Caruso, Giorgio W. Canonica, Manish Patel, Andrew Smith, Mark C. Liu, Rafael Alfonso-Cristancho, Robert G. Price, Lydia Demetriou, Antonio Valero, Charles Pilette, Peter Howarth
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<td>Asthma exacerbation rate reduction with benralizumab in an integrated analysis of the real-world XALOC-1 study</td>
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<td>KCa3.1 inhibition possesses complex anti-asthmatic effect in a guinea pig model of chronic asthma.</td>
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<td><strong>PA4189</strong></td>
<td>Early response and remission with benralizumab in patients with severe asthma and chronic rhinosinusitis with nasal polyposis (CRSwNP) in the prospective real-world ImPROve Asthma study</td>
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<td>Gender differences in gene polymorphisms are linked to up-regulated leukotriene pathway in asthma</td>
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<td>Cognitive impairment is common in patients with severe asthma that are commenced on a biological treatment</td>
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<td>The PARP14 inhibitor RBN-3143 suppresses lung inflammation in preclinical models</td>
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**Thematic poster: Chronic management of respiratory diseases**

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

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

**Chairs:** Beatriz Abascal Bolado (Santander, Spain), Natasha Smallwood (Melbourne (VIC), Australia)

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<td>Physical activity promotion interventions in chronic airways disease: preliminary findings from a scoping review and meta-analysis</td>
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<td>Using technology to engage patients with interstitial lung diseases in a home exercise program: a pilot study</td>
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<td>The lived experiences of people with idiopathic pulmonary fibrosis (IPF) to inform Home Based Pulmonary Rehabilitation (HBPR) in Delhi, India: A Qualitative Study</td>
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Effect of virtual pulmonary rehabilitation among patients with Chronic Obstructive Pulmonary Disease
Aldrin John Almario (Quezon City, Philippines), Glynna Ong-Cabrera

Comparison of the effectiveness of different telerehabilitation methods on exercise capacity, dyspnea and quality of life in COPD patients
Nursima Bulut (İstanbul, Turkey), Esra Pehlivans, Erdoğan Çetinkaya, Barış Demirkol, Melih Akay Arslan, Kürtşad Nuri Baybdili, Halit Çınarka

Late Breaking Abstract - A long road to recovery? Reduced quality of life, impaired functional status and the lived experience of Long COVID patients, a cohort analysis.
Mark Faghy (Nottingham (Nottinghamshire), United Kingdom), Rebecca Owen, James Yates, Callum Thomas, Francesco Ferraro, Ruth Ashon

Sing-a-Lung: Does Singing for Lung Health provide physiological changes in COPD?
Uffe Bodtger (Naestved, Denmark), Mette Kaasgaard, Daniel Bech Rasmussen, Anders Løkke, Peter Vuust, Ole Hilberg

Home oxygen therapy before, during, and after the COVID-19 pandemic: our reality
Ramon Antonio Toribio Abreu (Santo Domingo, Dominican Republic), Sheila Espinal

Differentiating acute heart failure from exacerbations of COPD: An AI-supported literature review
Sanne H B van Dijk (Einschede, Netherlands), Marjolein G J Brusse-Keizer, Charlotte C Bucsn, Carine J M Doggen, Job Van Der Palen, Anke Lenferink

A systematic review of shared decision-making interventions for people living with chronic respiratory diseases
Amy Barradell (Leicester (Leicestershire), United Kingdom), Charlotte Gerlis, Linzy Houchen-Wolloff, Hilary Bekker, Noelle Robertson, Sally Singh

Impact of pulmonary rehabilitation on the social support of people with COPD
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Sara Almeida, Patricia Rebelo, Guilherme Rodrigues, Eduardo Samuel, Carolina Monteiro, Ana Grave, Cintia Dias, Cristina Santos, Adriana Simões, Cláudia Rodrigues, Silvia Marques, Ana Carolina Conde Oliveira, Ana Sofia Rijo, Maria João Moura, Maria Aurora Mendes

Effectiveness of home-based pulmonary rehabilitation: systematic review and meta-analysis
Md Nazim Uzzaman (Edinburgh, United Kingdom), Dhiraj Agarwal, Soo Chin Chan, Julia Patrick Engkasan, G M Monsur Habib, Nik Sherina Hanafi, Tracy Jackson, Paul Jebaraj, Eu Ming Khoo, Fatim Tahirah Mirza, Hilary Pincock, Ranita Hisham Shumnugam, Roberto A. Rabinovich

Accelerometer adherence and physical activity levels for adults living with post-TB lung disease in Uganda
Winelesaus Katagira (Kampala, Uganda), Pauline Ndagire, Pina Ilaria, Richard Kasita, Sally J. Singh, Bruce J. Kirenga, Mark W. Orme

The influence of adherence to COPD exacerbation action plans on health outcomes
Jade Schrijver (Einschede, Netherlands), Tanja Effing, Joanne Van Helden, Marjolein Brusse-Keizer, Job Van Der Palen, Paul Van Der Valk, Anke Lenferink

Impact of fatigue on physical performance during a pulmonary rehabilitation program in COPD patients
Francois Alexandre (Lodeve, France), Virginie Molinier, Amandine Calvat, Adriana Castanyer, Laurene Charbonnel, Thomas Henry, Louis Hogmon, Morgane Jollive, Aurelien Marcenac, Antonin Vernet, Nelly Heraud

Pulmonary rehabilitation and changes in aerobic capacity, peak respiratory pressures and quality of life in Colombian patients with bronchiectasis
Lina Marcela Orozco Mejia (Cali, Colombia), Julián Andrés Rivera Motta

Determinants of DLCO and contribution to exercise capacity and symptoms
Eldar Priel (Dundas, Canada), Kieran J Killian, Imran Satia

VO2 prediction based on physiologic and mechanical exercise measurements
Marco António Pacheco Pereira (Paio Pires, Portugal), Ricardo Almeida, Herminia Dias
Cardiovascular response to exercise in preterm-born children with and without low lung function
Chris Course (Cardiff, United Kingdom), Sarah Kotecha, Michael Cousins, Kylie Hart, John Watkins, Sailesh Kotecha

The effect of aerobic training on pulse wave velocity in adults with and without long-term conditions: a systematic review
Majda Bakali (Leicester, United Kingdom), Thomas J C Ward, Amy V Jones, Grace M Hawthorne, Pip Divall, Matthew P M Graham-Brown, Gerry P Mccann, Thomas Yates, Michael C Steiner, Rachael A Evans

Effects of a rehabilitation programme on blood inflammatory markers
Salma Mokaddem Mohsen (Tunis, Tunisia), Khadija Ayed, Zeineb El Guebsey, Asma Ayed, Ibtissem Dekhil, Imededdine Ben Dhia, Touhami Khelifi

Why patients with lung fibrosis showing only mild restriction at rest may develop limiting dyspnoea on exertion?
J. Alberto Neder (Kingston (ON), Canada), Reginald M Smyth, Devin B Phillips, Matthew D James, Sandra G Vincent, Kathryn M Milne, Mathieu Marilijer, Juan Pablo De-Torres, Onofre Moran-Mendoza, Denis E. O'Donnell

Longitudinal prediction of maximum oxygen uptake in adults: analysis from the FRIEND registry
Victor Dourado (Santos (SP), Brazil), James Peterman, Ross Arena, Jonathan Myers, Leonard Kaminsky

Validity of alternative exercise tests in pulmonary hypertension.
Harrison Stubbs (Glasgow, United Kingdom), Alexander Macelliam, Michael Megetrick, Stephanie Lua, Fiona Thompson, Bhautesh Jani, Melanie Brewis, Colin Church, Martin Johnson

Disease-specific muscle oxygen transport and utilization during exercise in chronic obstructive pulmonary disease vs. chronic heart failure
Ulrik Winning Iepsen (Copenhagen, Denmark), Jacob Peter Hartmann, Rasmus Holmboe Dahl, Stine Nymand, Gregers Munch, Camilla Koch Ryrseøe, Bente Klarlund Pedersen, Pia Thaning, Stefan Mortensen, Ronan Martin Griffin Berg

Effects of acute bronchodilators on ventilatory constraint and dyspnoea during exercise in patients with pulmonary arterial hypertension (PAH)
Danilo C Berton (Porto Alegre (RS), Brazil), Elisa Schroeder, Lucia Rosso Diello, Suelen Di Domenico Melati, Marcelo B Gazzana, Eloara V M Ferreira

The utility of maximal oxygen uptake in assessment of cardiovascular risk in female patients with rheumatoid arthritis without associated lung disease
Gehan H. Abo E-Magd (Tanta, Egypt), Samah Elmedany

Submaximal breathing reserve during incremental cycle ergometry: reference values and clinical validation
J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Franciele Plachi, Devin Phillips, Reginald Smyth, Matthew James, Sophie Crinion, Juan Pablo De-Torres, Denis E. O'Donnell

The Impact of Cardiopulmonary Exercise Testing on Diagnosis of Unexplained Dyspnea
Craig Cook (bountiful, United States), Matt Hegewald

The association of pulmonary function and physical fitness in a population study
Maria Lopmeri (Helsinki, Finland), Tuula Vasankari, Tiina Mattila, Kari Tokola, Tommi Vasankari

Sit-to-stand as a potential alternative to 6MWT for portable oxygen titration in COPD
Nuno Faria (Porto, Portugal), Bruno S. Silva, Paula Pinto, Vânia Almeida, Maria José Fernandes, Maria Sucena, Joana Gomes

Do “static” lung volumes add to inspiratory capacity to predict exertional dyspnea and poor exercise tolerance in COPD?
J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Francieli Plachi, Devin Phillips, Reginald Smyth, Matthew James, Sophie Crinion, Juan Pablo De-Torres, Denis E. O'Donnell

Postural relief of dyspnea is associated with reduced neuromechanical dissociation in patients with advanced COPD
Amany Elbehairy (Alexandria, Egypt), Azmy Faisal, Hannah Mcisaac, Matthew D. James, Devin B. Phillips, Nicolle J. Domnink, Denis E. O'Donnell

The link between elevated inspiratory neural drive, inspiratory constraints, and dyspnea across the continuum of COPD severity
Matthew D. James (Kingston (ON), Canada), Devin B. Phillips, Sandra G. Vincent, Sara J. Abdallah, Adamo A. Donovan, J. Alberto Neder, Benjamin M. Smith, Dennis Jensen, Denis E. O'Donnell

TP-5 in thematic poster area
Session 471  13:00 - 14:00

Thematic poster: Noninvasive respiratory support in COVID-19: what did we learn?
Role of BAL in COVID-19 patients: a prospective multicentre study
Luca Ciani (Firenze, Italy), Julien Guiot, Claudia Ravaglia, Venerino Poletti, Valentina Luzzi, Leonardo Giuntoli, Leonardo Gori, Ernst Benoît, Edoardo Berillo, Alessandro Morettini, Carlo Nozzoli, Federico Lavorini, Anna Peired, Cosimo Nardi, Fabio Morecchiato, Gian Maria Rossolini, Simona Pollini, Laura Maggi, Francesco Annunziato, Marco Matteucci Cerinic, Sara Tomassetti

Usefulness of the early combination of non-invasive respiratory therapies in patients with COVID-19
Jose Rafael Teran Tineo (Madrid, Spain), Pablo Mariscal Aguilar, Miguel Lorente González, Eduardo Cano Sanz, Joaquin Hernández Núñez, María Angeles Ortega Fraile, Daniel Laorden Escudero, Isabel De La Calle Gil, Maria Cristina Plaza Moreno, Daniel Carballo López, Berta Gallego Rodríguez, Mariara Calderon Alcalá, Ailafl Latif Essa, Annette Zevallos Villegas, Soraya Gholamian Ovejero, Maria Churrucha Arröspide, Manuel Valle Falcones, Elena Maria Saiz Lou, Carmen Rodriguez Calle, Pedro Landete Rodriguez

High-flow nasal cannula oxygen versus non-invasive ventilation in patients with COVID-19: a systematic review and meta-analysis
Azzullah Beran (Toledo, United States), Omar Srou, Saif-Eddin Malhas, Mohammed Mhanna, Hazem Ayesh, Waleed Khokher, Khaled Srouf, Ragheb Assaly

Severe SARS-CoV-2 pneumonia and pneumomediastinum and/or pneumothorax: a prospective observational study in an intermediate respiratory care unit
Miguel Lorente González (Madrid, Spain), José Rafael Terán Tineo, Daniel Laorden Escudero, Annette Zevallos Villegas, Miguel Suárez Ortiz, Pablo Mariscal Aguilar, Eduardo Cano Sanz, María Ángeles Ortega Fraile, Joaquin Hernández Nüñez, Adalgisa Falcone, Elena Maria Saiz Lou, Maria Cristina Plaza Moreno, Clotilde Funes Moreno, Isabel De La Calle Gil, Rosalía Navarro Casado, Daniel Carballo López, Berta Gallego Rodríguez, Soraya Gholamian Ovejero, Aylafl Latif Essa, Carmen Rodriguez Calle, Tomás Jesús Villén Villegas, Pedro Landete Rodriguez

Lung Ultrasound versus SpO2-guided as "Best-PEEP" titration in SARS-CoV2 ARDS
Salvatore Longobardi (Milan, Italy), Paolo Gaboardi, Fabrizio Nava, Andrea Lanza, Leonardo Rovere, Luca Ciceri, Michele Chiericcozo, Paolo Tarsi

CPAP-associated changes in oxygenation and clinical outcomes in severe COVID-19 pneumonia
Stefano Pini (Milan, Italy), Marina Saad, Luca Perotto, Marina Gatti, Davide Alberto Chiumello, Stefano Aliberti, Francesco Blasi, Dejan Radovanovic, Pierachille Santus

Treatment of COVID-19 ARDS with a tabletop NIV device in a Respiratory Intermediate Care Unit
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Barney Isaac, Nadesan Priya, Avinash Nair, Balamugesh Thangakunan, Amith Balachandrnan, Tina George, Sheba Thomas, Tarun George, Ramya Iyadurai, Selwyn Kumar, Anand Zachariah, Bhagteshwar Singh, Priscilla Rupali, Kishore Pichamuthu, Richa Gupta, Jeffereson Daniel, Jebin Roger, Sujith Chandy

Utility of Continuous Positive Airway Pressure (CPAP) in COVID pneumonitis patients not suitable for mechanical ventilation
Jessamy Reece (Worces, United Kingdom), Bethany Jones, Roisin O’Neill, Abhi Lal, See Ling Tan

Predicting the need for Continuous Positive Airway Pressure (CPAP) or High-flow nasal oxygen (HFNO) in COVID-19 and patient outcome
Mohammed Jahanzeb Malik (Leatherhead, United Kingdom), Simon Bax, Riaz Ahmed

ROX index dynamics according to HFNC success in ICU patients with COVID-19-related acute respiratory failure
Pervin Hanci (Edirne, Turkey), Ahmet Uysal, Beyza Yuksel, Volkan Inal

Development of a Non-Invasive Respiratory Support Pathway in COVID19 patients with severe respiratory failure in an Intermediate Respiratory Care Unit
Antonio Menéndez (Granada, Spain), Jose Antonio Sánchez-Martinez, Susana Rojo-Tolosa, María Victoria González-Gutiérrez, Graciela Carolina Jurkoje Mohremerber, Gonzalo Jiménez-Gálvez, Concepción Morales-García
CLINICAL FINDINGS AND OUTCOMES FROM 1306 PATIENTS WITH COVID-19 PNEUMONIA IN AN INTERMEDIATE RESPIRATORY CARE UNIT: A PROSPECTIVE, OBSERVATIONAL STUDY


Predictors of Non-invasive Respiratory Support Failure in COVID-19 Pneumonia (RUTIROX). Preliminary Results

Toni Marin (Badalona (Barcelona), Spain), Irene Aldás, Marina Galdeano, Leire Mendiluce, Alan Jhunior Solis, Isabel Alfaya, Adriana Martin, Marina Perpiñan, Jorge Abdon, Antoni Rosell

Thematic poster: Translational research in COPD and lung cancer

Disease(s): Thoracic oncology, Airway diseases

Method(s): Endoscopy and interventional pulmonology, Cell and molecular biology, Epidemiology, Public health, Imaging, Pulmonary rehabilitation, Transplantation

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

The Y-chromosome regulates hallmark features of asthma and COPD

Karosham (Diren) Reddy (Glebe, Australia), Senani Rathnayake, Dikaia Xenaki, Alen Faiz, Brian Oliver

Implicating biological pathways in lung function and COPD by variant-to-gene mapping of novel signals from a multi-ancestry meta-analysis of genome-wide association studies

Martin D Tobin (Leicester, United Kingdom), Nick Shrine, Abril Izquierdo, Jing Chen, Anna L Guyatt, Richard Packer, Chiara Batini, Alfred Pozarickij, Robin G Walters, Stephanie London, Andrew P Morris, Louise V Wain, Ian P Hall

Clinical and molecular characterisation of new variants associated to alpha-1-antitrypsin deficiency

Valentina Barzon (Casanova Lonati (PV), Italy), Alice Maria Balderacchi, Giulia Bartoli, Stefania Ottaviani, Alessandra Corino, Tomás Patrick Carrol, Davide Piloni, Noel Gerard McElvaney, Angelo Guido Corsico, Anna Fra, Ilaria Ferrarotti

Smoking mice and exercise genes

Lars Aakerøy (Trondheim, Norway), Chew W Cheng, Pavla Sustova, Sissel Gyrid Freim Wahl, Nathan R Serimgeour, Sigurd Steinshamn, T Scott Bowen, Eivind Bronstad

Study of the expression of the IREB2, HHIP, and FAM13A genes in COPD and lung cancer

Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Gracia Eugenia González Angulo, Rafael Larrosa Jiménez, Rocio Bautista Moreno

The role of the microbiome in COPD

Gunnar Reksten Husebo (Fana, Norway), Kristel Knudsen, Rune Nielsen, Andreu Paytuvi-Gallart, Walter Sanseverino, Tomas Mikal Eagan

Differentiating metabolomic signatures of airway and pulmonary vascular abnormalities in COPD

Wassim Labaki (Ann Arbor, United States), Yizhuo Wang, Susan Murray, Jeffrey Curtis, Russell Bowler, Carrie Pistenmaa, Pietro Nardelli, Rubén San José Estépar, Raül San José Estépar, Kathleen Stringer, George Washko, Meilan Han

Using liquid biopsies to validate miRNA lung cancer biomarkers.

Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Elena Espinosa García, Rafael Larrosa Jiménez, Rocio Bautista Moreno

MiRNAs under condition of continuous and intermittent hypoxia: possible link with oncogenesis?

Donato Lacedonia (Molfetta (BA), Italy), GIORGIA MORIONDO, Piera Soccio, Giulia Scioscia, Pasquale Tondo, Rosa Leccisotti, Maria Cristina Colinardi, Roberto Sabato, Maria Pia Foschino Barbaro

Comparison of blood and lung biopsy core microbiome profiles of patients with lung carcinoma.

Borislava Tsafarova (Sofia, Bulgaria), Yordan Hodzhev, Vladimir Tolchkov, Nikolay Yanev, Vania Youroukova, Silvia Ivanova, Vladimir Milanov, Dimitar Kostadinov, Stefan Panaiotov

Correlation of PD-L1 expression on endobronchial ultrasound-guided transbronchial needle aspiration(EBUS-TBNA) samples and metabolic activity on 18F-Fluorodeoxyglucose uptake on positron emission tomography/computed tomography(18F-FDG PET/CT)

Virginia Guevara Vclazquez (Salamanca, Spain), Rosa Cordovilla Pérez, Asunción Gómez Muñoz, Marta Rodríguez González, Marco López Zubizarreta, Miguel Iglesias Heras, Lorena Bellido Hernández, Jesús Pinto Blázquez
The involvement of neutrophil infiltration in the formation of lung pre-metastatic niche
YUNG-CHI HUANG (Kaohsiung City, Taiwan), Ya-Ling Hsu, Hsiao-Chen Lee

Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Maria Pilar Pérez Soriano, Rafael Larrosa Jiménez, Rocio Bautista Moreno

The clinical utility of longitudinal measurement of mutated EGFR in plasma of advanced NSCLC patients during EGFR-TKI treatment
Adam Szpechciński (Warszawa, Poland), Maciej Bryl, Emil Wojda, Grzegorz Czyzewicz, Daria Swiniuch, Marek Szwiec, Rodryg Ramlau, Pawel Sliwinski, Aleksander Barinow-Wojewodzki, Joanna Chorostowska-Wynimko

Cheet manifestation of the scleros tuberos complex : case report and literature review
naime ait mouddene (CASABLANCA, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam Elkhattabi, Hicham Afif

MiR-125b-5p up-regulation in asthma and COPD overlap patients mediates oxidative stress and apoptosis via targeting IL6R/NLRC5/TRIAP1
Yu-Ping Chang (Kaohsiung, Taiwan), Chiu-Ping Lee, Yung-Che Chen

The regulation of IL33 following smoking cessation
Ailen Faiz (Ultimo (NSW), Australia), Fia Sabrina Boedjono, Wim Timens, Martijn Nawijn, Philip M. Hansbro, Rashad Mahbub, Matt D. Johansen, Corry-Anke Brandsma, Irene H. Heijink, Florian Massip, Maria Stella De Biase, Roland F. Schwarz, Ian M. Adecock, Kian Fan Chung, Pieter S. Hienstra, Helene Goulauouic, Eming Xing, Raolat Abdulai, Emanuelle De Rinaldis, Danen Cunoosamy, Sivan Harel, David J. Lederer, Chad Nivens, Huib Kerstjens, Machteld Hylkema, Maarten Van Den Berge

Novel privacy considerations for large scale proteomics

Late Breaking Abstract - Low-density lipoprotein-cholesterol and risk of chronic obstructive pulmonary disease: A prospective study of 107,301 participants
Josefine Freyberg (København SV, Denmark), Shoaib Afzal, Eskild Morten Landt, Børge G. Nordestgaard, Morten Dahl

Thematic poster: Respiratory inflammation and the pulmonary consequences of COVID-19
Interstitial lung diseases Airway diseases Respiratory critical care
Respiratory intensive care Cell and molecular biology Pulmonary function testing Physiology General respiratory Endoscopy and interventional pulmonology Public health Pulmonary rehabilitation
Justine Devulder (London, United Kingdom), Katie Raby (London, United Kingdom)

Inflammation and membrane integrity of epithelial cells and macrophages infected by Pseudomonas aeruginosa and Streptococcus pneumoniae
Elena Campana Ducl (Sabadell, Spain), Luis Morales-Quinteros, Adrián Ceccato, Aina Areny-Balaguér, Pamela Conde, Luis Blanch, Laia Fernández, Marta Camprubí-Rimblà, Antonio Artigas

IL-4 mediated-macrophage reprogramming promotes ARDS resolution in the Aging Host
Andres Felipe Villabona-Rueda (Baltimore, United States), Xueyi Chen, Jeremy Walston, Peter Abadir, Franco D’Alessio

IL-33 and IL-4Rα blockade impact distinct and overlapping inflammatory mediators of airway disease
Seblewongel Asrat (Tarrytown, United States), George Scott, Jeanne Allinre, Weikeat Lim, Dylan Birchard, Li-Hong Ben, Andrew J. Murphy, Matthew A. Sleeman, Jamie Orenko, Audrey Le Floc, Kirsten Nagashima, Subhashini Srivatsan

Physiomimetic culture of mesenchymal stromal cells affects macrophage activity in a paracrine manner.
Bryan Falcons (Malmö, Sweden), Arturo Ibáñez-Fonseca, Zacharias Söderlund, Isaac Almundres, Linda Elowsson Rendin, Ramon Farré, Gunilla Westergren-Thorsson
The role of MBD2 regulating M1 macrophage polarization in acute lung injury
Wenjin Sun (Chengdu City, China)

Monocyte Derived Macrophage (MDM) responses to heme stimulation
Michelle Schorer (Bern, Switzerland), Kleanthis Fytianos, Jessica Petracca, Fabian Kaesemann

Late Breaking Abstract - Parenchymal lung abnormalities, clinical severity and outcomes in patients with COVID-19 pneumonia: a prospective longitudinal observational study
Ashish Kumar Prakash (Gurgaon (Haryana), India), Boranal Datta, Manish Kumar Singh, Kavitha Yaddanapudi, Kulbir Ahlawat, Jaya Tripathy, Pinky Goyal, Sandeep Mittal, Nishant Gupta, S Parvathi, Anand Jaiswal, Padam Singh, Sudhakar Pipavat, Ganesh Raghu

Circulating neutrophil-derived microvesicles are a hidden compartment of inflammation in severe COVID-19
Sanooj Soni (London, United Kingdom), Elizabeth Brown, Diananeira Tsriroud, Ashley Green, Carissa Chu, Jessica Luiz, Robert Grogan, Sehar Khushi, Michael R. Wilson, Anthony C. Gordon, Kieran O'Dea, Stephen J. Brett, Masao Takata

Investigating COVID-19 severity based on serum levels of vascular endothelial growth factor (VEGF)
Elham Barfzadeh (Kerman, Islamic Republic of Iran), Mitra Samareh Fekri, Mehrdad Farokhnia, Fatemeh Karami Robati, Sajjadeh Movahedinia, Shariar Dabiri

Involvement of the chemerin-ChemR23 system in severe COVID-19 patients
Philomene Lavis (Brussels, Belgium), Sofia Morra, Carmen Orte Cano, Nurhan Albayrak, Véronique Corbière, Véronique Olislagers, Nicolas Dauby, Véronique Del Marmol, Arnaud Marchant, Christine Decaestecker, Françoise Mascart, Philippe Van De Borne, Isabelle Salmon, Myriam Remmelink, Marc Parmentier, Alessandra K Cardozo, Benjamin Bondue

Developing advanced cell culture models to study COVID-19-associated pulmonary fibrosis
Ying Wang (Leiden, Netherlands), Sijia Liu, Melissa Thaler, Annemarie Van Schadewijck, Mariska Van Huizen, Danielle Cohen, Marjolein Kikkert, Martijn J. Van Hemert, Peter Ten Dijke, Pieter S. Hiemstra, Anne M. Van Der Does

Time-dependent molecular motifs of pulmonary fibrogenesis in COVID-19
Jan-Christopher Kamp (Hanover, Germany), Lavinia Neubert, Maximilian Ackermann, Helge Stark, Christopher Werlein, Jan Fuge, Axel Haverich, Alexandar Tzankov, Konrad Steinestel, Johannes Friemann, Peter Boor, Klaus Junker, Marius M. Hoepfer, Tobias Welte, Florian Laenger, Mark P. Kuehnel, Danny D. Jonigk

Serological markers of tissue remodeling are elevated in patients with COVID-19 who develop interstitial lung disease
Helene Wallem Breisnes (Herlev, Denmark), Pernille Juhl, Diana Julie Leeming, Tom Wilkinson, Aishath Fazleen, Jannie Marie Bülow Sand

Balance between α-1Antitrypsin and Human Neutrophil Elastase (a1AT/HNE) in Bronchoalveolar Lavage fluid (BALF) of severe COVID-19 patients
Valentina Vertui (Pavia, Italy), Laura D'Amato, Simona Viglio, Sara Bozzini, Monica Morosini, Laura Pandolfi, Sara Lettieri, Matteo Della Zoppa, Tommaso Fossali, Riccardo Colombo, Anna Aliberti, Paolo Iadarola, Federica Meloni

Bronchoalveolar expression of metalloproteinases and tissue growth factors as predictors of clinical severity in Sars-Cov-2 pneumonia
Vittorio Chino (Pavia, Italy), Francesco Bertuccio, Laura Saracino, Anna Aliberti, Michele Pagani, Sara Bozzini, Cecilia Bagnera, Sara Lettieri, Federica Meloni

Prolonged stay and endothelial dysfunction in hospitalized patients with covid-19
Laura Cornejo-Cornejo (México City, Mexico), Juan Marquez-Cordero, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Jorge Aguilar-Meza, Alejandra Rios-Perea, Iris Lopez-Vazquez, Mariana Salvatierra-Escobar, Carlos Sanchez-Moreno, Gamaliel Aztatti-Aguilar, Maria Sierra-Vargas, Yasmin Debray-Garcia, Alejandra Loaeza-Roman, Susana Galicia-Amor, Esperanza Trejo-Mellado

Correlation between lung inflammatory cells, viral load and cytokines in fatal COVID-19
Natalia de Souza Xavier Costa (São Paulo, Brazil), Jonas Ercfelte, Jimmie Jönsson, Olga Cozzolino, Katia Dantas, Carl-Magnus Clausson, Premkumar Siddharaj, Caroline Lindö, Suzete Ferreira Spina Lombardi, Alfredo Mendroni Júnior, Leila Antonangelo, Caroline Silvério Faria, Amaro Nunes Duarte Neto, Renata Almeida Monteiro, João Renato Rebelo Pinho, Michele Soares Gomes-Gouvêa, Roberta Verciano Pereira, Jonatas Sirino Monteiro, João Carlos Setubal, Ellen Pierre De Oliveira, Jair Theodore Filho, Caroline Sanden, Jamie Orengo, Matthew Sleeman, Luiz Fernando Ferraz Da Silva, Paulo Nascimento Saldiva, Marisa Dolinkhoff, Thais Mauad

Proteomic profiling of severe lung dysfunction impairment in the recovery stage of COVID-19-induced ARDS
Maria C García-Hidalgo (Lleida, Spain), Jessica González, Iván D Benitez, Sally Santistevé, Fátima Rodríguez-Jara, Marta Molinero, Manel Pérez-Pons, Gerard Torres, Anna Moncusi-Moix, Clara Gort-Paniello, Paola Carmona, Jesús Caballero, Carme Barberà, Ana P. Tedim, Raquel Almansa, Adrián Cecatto, Laia Fernández-Barat, Ricard Ferrer, Dario Garcia-Casulla, Rosario Menéndez, Anna Motos, Oscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferrán Barbé, David De Gonzalo-Calvo
Andrea Portacci (Taranto, Italy), Paola Pierucci, Sara Quaranta, Ilaria Iorillo, Cristian Locorotondo, Enrico Buonamico, Fabrizio Diaferia, Esterina Boniello, Giuseppe Di Gioia, Maria Francesca Grimaldi, Giovanna Elisiana Carpanago

HLA Class I allele is associated with a lower risk to develop Post-COVID19 interstitial lung manifestations

Thematic poster: Clinical consequences and systemic effects of obstructive sleep apnoea

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
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<tr>
<td>Airway diseases, Sleep and breathing disorders</td>
<td>Epidemiology, General respiratory patient care, Physiology, Public health, Imaging, Cell and molecular biology, Surgery, Pulmonary function testing</td>
<td>Raphael Heinzer (Lausanne, Switzerland), Carolina Lombardi (Milano (MI), Italy)</td>
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determinants of sleepiness and related polysomnographic variables in sleep apnea patients: cross-sectional study
Luci Suliman (Mansoura, Egypt), Raed Elmetwaley, Elshaima El -shimaa Sabry Mohamed

Hypoxic burden in patients with Obstructive Sleep Apnea and its correlation with other polygraphic parameters and subjective hypersomnia.
Thais Beauperthuy Levy (Valencia, Spain), Grace Oscullo Yepez, Marina Inglés Azorin, Alberto García-Ortega, Jose Daniel Gómez-Olivas, Amina Bekki, Miguel Ángel Martínez-García

Partners cannot help improve the accuracy of the Epworth Sleepiness Scale for assessment of Excessive Daytime Sleepiness
Bob Tielbeek (Maastricht, Netherlands), Susan Voncken, Umit Karaca, Astrid Kolfoort-Otte, Martijn De Kruif

Micro-sleep during MWT and risk of sleepiness at wheel or near-missing accidents
Francesco Fanfulla (Pavia (PV), Italy), Pasquale Tondo, Irene Risi, Caterina Pronzato, Marisa Bonsignore

Residual excessive daytime sleepiness (EDS) in Italian patients with obstructive sleep apnea (OSA) treated with continuous positive airway pressure (CPAP): preliminary results of the OSAREDS study
Maria Bonsignore (Palermo, Italy), Tommaso Sacco, Alberto Braghirol, Francesco Fanfulla, Luigi Ferini-Strambi, Anna Lo Bue, Fabio Placidi, Andrea Romigi, Giuseppe Plazzi

Prevalence and predictors of Residual Sleepiness (RS) in Obstructive Sleep Apnea (OSA) Patients Treated with Positive Airway Pressure (PAP)
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, George Stathakis, Christina Ermidou, Violeta Moniaki, Eleni Mavroudi, Sophia Schiza

Obstructive Sleep Apnea and Fracture Risk
Daniela Krasimirova (Sofia, Bulgaria), Ventislava Pencheva, Ognyan Georgiev, Daniela Petrova, Radoslav Bilyukov, Tzanko Mondeshki, Sevda Naydenska, Petko Shoshkov, Adelina Tzakova

Hepatic steatosis in patients with obstructive sleep apnoea syndrome
Manel Loukil Ben Ali (Nabeul, Tunisia), Warda Jelassi, Narjes Abid, Mechaal Ben Ali, Hedia Ghairai

Hepatic dysfunction in patients with obstructive sleep apnea; prevalence and how to assess
Ali Abdelaziz (Minia, Egypt), Ahmed Kasem, Rabab Sedeek, Mahmoud. Higazi, Ahmed Mady

Association with obstructive sleep apnea severity and heart rate variability
Soriul Kim (Seoul, Republic of Korea), Hye Ryeong Nam, Chol Shin

Impact of sleep-disordered breathing on premature ventricular complexes after cardiac surgery
Luse Schäffer (Regensburg, Germany), Annika Hofmann, Marcus Creutzenberg, Bernhard Flörchinger, Daniele Camboni, Christof Schmid, Lars Siegfried Maier, Stefan Wagner, Michael Arzt, Maria Tafelmeyer

Obstructive sleep apnea and associations with lung function
Baz Delshad (Uppsala, Sweden), Mirjam Ljunggren, Xingwu Zhou, Jenny Theorell-Haglöw, Christer Janson, Ding Zou, Jan Hedner, Ludger Grote, Anders Blomberg, Karl A. Franklin, Carin Sahlin, Andrei Malinovschi, Eva Lindberg

Association between gut microbiota and obesity in obstructive sleep apnea
Masako Ueyama (Tokyo, Japan), Ryuji Ohue, Hiroyuki Kokuto, Fumio Suzuki, Shinichi Oikawa, Hiroshi Kimura, Ikuko Kimura
Comparison of composite lipid indices in patients with obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Stefan Frent, Daniela Reisz, Alina Negru, Laura Gaita, Daniel Breban Schwarzkopf, Stefan Mihaicuta

Relationship between Neutrophil to lymphocyte ratio and platelet to lymphocyte ratio and the severity of obstructive sleep apnea syndrome
Abir Hedhli Ep Cherni (tunis, Tunisia), arbia chiaeib, Abir Hedhli, Mjid Mariem, Turki Chaima, Cheikhrouhou Sana, Merai Samira, Toujeni Sonia, Ouhachi Yassine, Dhahri Bessma

Apnea-hypopnea index of 5 per hour is a threshold for phosphatidylcholine-related metabolomic changes in patients with sleep complaints
Ott Kiens (Tartu, Estonia), Egon Taalberg, Viktoria Ivanova, Ketlin Veevälä, Ragne Tamm, Triin Laurits, Aigar Ottas, Kalle Kilk, Ursel Soomets, Alan Altraja

Inflammation and oxidative stress markers in obstructive sleep apnea patients
Anca Diana Maierean, Damiana Maria Vulturar, Doina Adina Todea

The association between snoring and hearing loss in patients with obstructive sleep apnoea.
Emily Lawton (Adelaide, Australia), Mark Jurisevic, Kate Hobart, Jonathon Polasek, Andrew Fon

REM sleep apnoea and carotid intima thickness in men and women
Mirjam Elisa Ljunggren (Uppsala, Sweden), Tord Naessén, Jenny Theorell-Haglöw, Karl Franklin, Eva Lindberg

Association of REM predominant obstructive sleep apnoea severity with depression and quality of life in adults with coronary artery disease in the RICCADSA cohort
Baran Balcan (Istanbul, Turkey), Yeliz Celik, Yuksel Peker

Pharmacological characterization of the anti-inflammatory effect of mepolizumab and benralizumab in a human ex vivo model of asthma
Josuel Ora (Roma (RM), Italy), Paola Rogliani, Francesco Facciolo, Enrico Melis, Beatrice Ludovica Ritondo, Maria Chiara Gabrielle, Andrea Perduno, Luigino Calzetta

Asthma exacerbations and eosinophilia in the UK Biobank: a Genome-Wide Association Study
Ahmed Edris (Ghent, Egypt), Katherine Fawcett, Ian P. Hall, Matin D. Tobin, Lies Lahousse

Dupilumab in patients with atopic dermatitis: what effect on asthma?
Merouane MESSEKHER (Toulouse, France), Marie Tauber, Alain Didier, Laurent Guilleminault

IL1RAP is an emerging target in chronic airway inflammatory diseases
Gopinath Kasetty (Mölndal, Sweden), Marie Jönsson, Janne Persson, Pernilla Grundevik, Josquin Nys, Suzanne Cohen, Annika Borde, Mark A Birrell

The effect of rosuvastatin on rat models asthma, hyperlipidemia and asthma-hyperlipidemia
Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Saeideh Saadat

Effect of tezepelumab on symptoms and peak expiratory flow before, during and after exacerbations in NAVIGATOR
Mario Castro (Kansas City, United States), Neil Martin, Christopher S. Ambrose, Sandhia Pomnarambil, Ales Kotalik, Jean-Pierre Llano-Ackert, Stephanie Korn

Effect of tezepelumab on exacerbation-related intravenous corticosteroid use in patients with severe, uncontrolled asthma in NAVIGATOR
Arnaud Bourdin (Montpellier Cedex 5, France), Neil Martin, Chris Ambrose, Sandhia Pomnarambil, Gillian Hunter, Nestor Molfin, Bill Cook

Omalizumab-treated severe allergic asthmatics have comparable small airways function to healthy controls.
Amir Hakim (London, United Kingdom), Harpal Kalsi, Sally Meah, Paolo Paredi, Martyn Biddiscombe, Omar Usmani

Thematic poster: Translational studies of asthma and COPD

Disease(s): Airway diseases
Method(s): General respiratory patient care, Cell and molecular biology, Respiratory intensive care, Epidemiology, Physiology

Pharmacological characterization of the anti-inflammatory effect of mepolizumab and benralizumab in a human ex vivo model of asthma
Josuel Ora (Roma (RM), Italy), Paola Rogliani, Francesco Facciolo, Enrico Melis, Beatrice Ludovica Ritondo, Maria Chiara Gabrielle, Andrea Perduno, Luigino Calzetta

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TP-9 in thematic poster area
Session 475 13:00 - 14:00
Efficacy of tezepelumab according to age at asthma onset in NAVIGATOR
Guy Brusselle (Ghent, Belgium), Joseph Spahn, Gillian Hunter, Neil Martin, Jean-Pierre Llanos-Ackert, Sandhia Ponnaambili

Small mobile stem cells multitargeted approach to alveoli in vivo regeneration
Abdulkader Rahmo (San Marcos, United States)

Validation of sputum cytokine immunoassays in COPD
Alex Mulvanny (Manchester (Greater Manchester), United Kingdom), Thomas Southworth, Caroline Pattwell, Dave Singh

The role of the molecular circadian clock in Asthma
Julia Teppan (Graz, Austria), Iris Red, Juliana Schwancer, Akos Heinemann, Eva Sturm

Effects of salbutamol and ipratropium on human stem-cells derived cardiomyocytes’ function
Martin Scurek (Brno, Czech Republic), Simon Klimovic, Martin Pesl, Jan Pribyl, Daniil Kabanov, Deborah Beckerova, Marketa Bebarova, Vladimir Rotrekl, Kristian Brat

Targeting eosinophils in chronic eosinophilic pneumonia: new therapeutic perspectives for long-term control.
Cecilia Cisternino (San Giovanni Rotondo, Italy), Alessia Steffanina, Paola Scarano, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani

Dupilumab improves exacerbations and lung function irrespective of prior asthma exacerbations: TRAVERSE
Alberto Papi (Cone, Ferrara, Italy), Mario Castro, William W Busse, David Langton, Stephanie Korn, Changming Xia, Xavier Soler, Nami Pandit-Abid, Shahid Siddiqui, Juby A Jacob-Nara, Paul J Rowe, Yamo Deniz

Assessment of inhaled medications using an in vitro human alveolar microphysiological system.
Emily Richardson, Hailey Sze, David Hughes, Tomasz Kostrzewski

Biomarker-defined clusters by level of Type 2 inflammatory involvement in severe asthma
William Henley (Exeter, United Kingdom), David Price, Sarah Burkill, Eileen Wang, Michael E. Wechsler, Eve Denton, Trung N. Tran, Neil Martin, Rohit Kattial, Peter Barker, Jorge Maspero, Mark Hew, Guy Bruselle, George C Christoff, Mohsen Sadatsafavi, Carlos A. Torres-Duque, Celeste M. Porsbjerg, Charlotte Ulrik, Susanne Hansen, Alan Altraja, Arnaud Bourdin, Nikolaos G. Papadopoulos, Konstantinos Kostikas, Sundeep Salvi, Richard W Costello, Puggioni Francesca, Takashi Iwanga, Chin Kook Rhee, Mona Al-Ahmad, Desiree Larenas Linnemann, Joao A Fonseca, Borja G.Cosio, Mariko Koh Siyue, Bruce Kirenga, Chau-Chyun Sheu, Ming-Ju Tsai, Bassam Mahboub, John Busby, Liam G Heaney, Paul E Pfeiffer, Pujan Patel, Flavia Hoyte, Yang Liu, Celine Goh, Juntao Lyu, Thendral Uthaman

Dupilumab effectiveness in patients with type 2-high severe asthma and chronic rhinosinusitis with nasal polyps
Santi Nolasco (Catania, Italy), Raffaele Campisi, Antonino Cipolla, Pietro Impellizzeri, Martina Bonsignore, Junzio Crimi, Claudia Crimi

Characteristics of Responders to Biologics in Patients with Severe Asthma: Based on Precision Medicine Intervention in Severe Asthma (PRISM) Study
Ji-Hyang Lee (Seoul, Republic of Korea), Hyunyoung Kim, Jae-Woo Jung, Min-Hye Kim, Jeong-Hee Choi, Ji-Yong Moon, So Young Park, Sa-Hoon Kim, Min-Suk Yang, Byung-Keun Kim, Jae-Woo Kwon, Hye-Kyung Park, Chan Sun Park, Taehoon Lee, Sujeong Kim, Young-Hee Nam, Han-Ki Park, Byung-Jae Lee, Hyouk-Soo Kwon, Woo-Jung Song, Sei Won Lee, You Sook Cho, Tae-Bum Kim

14:00-14:45
INDUSTRY SKILLS LAB WORKSHOP
See Page 1

Online skills lab: Right heart catheterisation

Aims: To learn the principles of a safe right heart catheterisation. To learn how to obtain the correct pressure wave recordings and obtaining the correct references. To learn to interpret the right heart catheterisation in a correct way. To learn the principles of NO testing and performing an exercise test.

Chairs: Mona Lichtblau (Zürich, Switzerland), Gabor Kovacs (Graz, Austria), Olivier Sitbon (Le Kremlin-Bicêtre, France)

14:15
Right heart catheterisation procedure from the Amsterdam lab: jugular approach
Mona Lichtblau (Zürich, Switzerland), Gabor Kovacs (Graz, Austria)

15:00
Discussion and Q&A
Mona Lichtblau (Zürich, Switzerland), Gabor Kovacs (Graz, Austria)

19.08.2022
### Clinical cases: Imaging clinical cases

**Challenges in imaging of emphysema and interstitial lung diseases**

**Aims:** to provide a case-based session, with a special focus on imaging, that explains the role of imaging of emphysema in a preoperative setting and evaluation before endobronchial valve implantation or LVRS, with a special focus on available imaging software, the role of the new imaging technique photon counting CT in comparison with HRCT for ILD imaging and how to identify the most common ILD patterns on HRCT. A clinician and a radiologist will evaluate the cases, and there will be interactive involvement of the audience.

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

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

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

**Chairs:** Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Daniela Gompelmann (Vienna, Austria)

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<th>Session Title</th>
<th>Speaker</th>
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<td>14:15</td>
<td>Patients with lung emphysema: endobronchial valves or surgery?</td>
<td>Stephanie Everaerts (Leuven, Belgium)</td>
<td>4332</td>
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<tr>
<td>14:30</td>
<td>Patients with lung emphysema: radiological preoperative setting</td>
<td>Walter De Wever (Leuven, Belgium)</td>
<td>4333</td>
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<tr>
<td>14:45</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4334</td>
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<tr>
<td>15:00</td>
<td>Patients with ILDs: prognostic markers of disease progression</td>
<td>Veronika Müller (Budapest, Hungary)</td>
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<tr>
<td>15:15</td>
<td>Patients with ILDs: radiological signs and artificial intelligence possibilities</td>
<td>Helmut Prosch (Wien, Austria)</td>
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<tr>
<td>15:30</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
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### Symposium: Asthma: confusion in diagnosis, recognising comorbidities and understanding pathophysiological connections

**Aims:** to inform clinicians and researchers about the latest updates in significant asthma comorbidities and pathologies that mimic asthma and contribute to difficulties with diagnosis and treatment; to describe in particular conditions that mimic asthma, such as vocal cord dysfunction and dysfunctional breathing, and significant comorbidities, such as chronic rhinosinusitis, vasculitis and eosinophilic granulomatosis with polyangiitis (EGPA); to assess the importance of small airways in asthma.

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

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

**Tag(s):** Translational

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

**Chairs:** Katerina Antoniou (Heraklion, Greece), Apostolos Bossios (Stockholm, Sweden)

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<tr>
<td>14:15</td>
<td>Vocal cord dysfunction and dysfunctional breathing: the underlying secrets</td>
<td>Stephen James Fowler (Preston (Lancashire), United Kingdom)</td>
<td>4338</td>
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<tr>
<td>14:30</td>
<td>Difficult-to-manage chronic rhinosinusitis and asthma: two strangers in the same city</td>
<td>Vibeke Backer (Copenhagen, Denmark)</td>
<td>4339</td>
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<tr>
<td>14:45</td>
<td>Vasculitis, EGPA and eosinophilic asthma: ties of blood</td>
<td>Amy Klion (BETHESDA, United States)</td>
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<td>15:00</td>
<td>Small airways in asthma: looking deep in the lungs</td>
<td>Monica Kraft (New York, United States)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4342</td>
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**8C - live streamed**  
**Session 481**  
**14:15 - 15:45**  

**State of the art session: Respiratory critical care**

**Aims:** to discuss the key characteristics of the different acute respiratory disease syndrome phenotypes and how these affect clinical management; to discuss the pathophysiology of lung injury induced by high respiratory effort and how clinical management can reduce the risk of lung injury caused by high patient effort; to discuss the principles of novel techniques for respiratory monitoring and how their clinical application can improve outcomes; to discuss the role of different techniques for noninvasive respiratory support in patients with acute hypoxemic failure.

**Disease(s):** Respiratory critical care  
**Method(s):** General respiratory patient care, Physiology, Respiratory intensive care  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs:** Maxime Patout (Paris, France), Maria Bonsignore (Palermo, Italy), João Carlos Winck (Vila Nova de Gaia, Portugal)

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<th>Time</th>
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<tr>
<td>14:15</td>
<td>Phnotyping in acute respiratory distress syndrome: clinical implications</td>
<td>Carolyn Calfee (San Francisco, United States)</td>
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<tr>
<td>14:30</td>
<td>Patient self-inflicted lung injury: clinical implications</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
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<td>14:45</td>
<td>Advanced respiratory monitoring in acute respiratory failure: clinical implications</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<tr>
<td>15:00</td>
<td>High-flow nasal oxygen or noninvasive ventilation for patients with acute hypoxemic failure</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
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<td>15:15</td>
<td>Discussion and Q&amp;A</td>
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**8G - live streamed**  
**Session 482**  
**14:15 - 15:45**  

**Hot topics: Occupational COVID-19: current and future impact**

**Aims:** To present the latest evidence on the occupational risk factors for COVID-19 in support of a global recognition and compensation of COVID-19 and long COVID-19 as new occupational diseases; to present an international overview of the most adversely impacted and best studied occupational groups, in particular healthcare workers (HCWs); to discuss how occupational health services could be a privileged observatory to study and manage the COVID-19 pandemic because of their key role in implementing preventive measures, especially vaccination programmes, administrative and engineering controls, personal protective equipment and health surveillance and management of COVID-19 cases, including testing, contact tracing and return to work of long COVID-19 cases; to seek to identify research needs in relation to risk for occupational groups other than HCWs, especially among the most vulnerable social categories, such as migrants, to estimate the true occupational health burden of COVID-19, thereby providing effective and efficient governmental mitigation policies to prevent the associated public health burden and increase preparedness for future pandemics.

**Disease(s):** Interstitial lung diseases, Respiratory infections  
**Method(s):** Epidemiology, General respiratory patient care, Public health  
**Tag(s):** COVID  
**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, Journalist

**Chairs:** Sara De Matteis (Cagliari, Italy), Rafael E. de la Hoz (New York, United States)

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<th>Time</th>
<th>Title</th>
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<tr>
<td>14:15</td>
<td>Epidemiology of occupational COVID-19</td>
<td>Kurt Straif (Ste. Foy-les-Lyon, France)</td>
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<td>14:30</td>
<td>Long COVID-19: an epidemiologist, clinician and patient perspective</td>
<td>Eva Polverino (Barcelona, Spain)</td>
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<td>14:45</td>
<td>Fast-tracking the development of vaccines during a pandemic: what have we learnt?</td>
<td>Laura Fregonese (London, United Kingdom)</td>
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<td>15:00</td>
<td>COVID-19 and returning to work: an international online survey</td>
<td>Pippa Powell (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>15:15</td>
<td>Discussion and Q&amp;A</td>
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Hot topics: Artificial intelligence applications in thoracic oncology: an overarching ambition or overarching benefit?

Aims: to provide a clear overview of all current applications of artificial intelligence (AI) in the entire spectrum of thoracic malignancies and identify their impact on patient care.

Disease(s): Thoracic oncology

Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  Surgery

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

Chairs: Najib M. Rahman (Oxford, United Kingdom), Georgia Hardavella (Athens, Greece)

14:15  AI in lung cancer screening: the radiologist’s spotlight
Annemiek Snoeckx (Edegem (Antwerp), Belgium)

14:30  AI in the diagnosis of thoracic malignancies: the pathologist’s spectacles
Joanna Domagala-Kulawik (Warszawa, Poland)

14:45  AI in pleural malignancies
Kevin Blyth (Glasgow (Glasgow), United Kingdom)

15:00  AI in lung cancer: potential implications for patient care
Laurent Derecle (New York, United States)

15:15  Discussion and Q&A
All Speakers

Oral presentation: Long COVID and rehabilitation

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

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

Chairs: Anne Holland (Fitzroy North (VIC), Australia), Carla Simonelli (Lumezzane (BS), Italy)

Predictive factors for centralized rehabilitation in hospitalized COVID-19 patients
Antoine EL KIK (Beirut, Lebanon), Hind Eid, Albert Riachy, Elio Mekhael, Karim Hoyek, Nabil Nassim, Georges Khayat, Ghassan Sleilaty, Moussa Riachy

Severity score-based study of predictors and clinical correlates of Post-COVID Syndrome (PCS) in Germany
Thomas Bahmer (Kiel, Germany), Christoph Borzikowsky, Wolfgang Lieb, Anna Horn, Lilian Krist, Julia Fricke, Carmen Scheibenbogen, Klaus F. Rabe, Walter Maetzlzer, Corina Maetzlzer, Martin Laudien, Derk Frank, Sabrina Ballhausen, Alin Viebke, Anne Hermes, Olga Mulukov, Karl Georg Haeusler, Nour Eddine El Mokhtari, Martin Witzenrath, Thomas Zoller, Jörg Jamme Vehreschild, Sina Hopff, Gabriele Anton, Dagmar Krefting, Lennart Reinke, Grit Hein, Felipe A. Montellano

Relation between functional status and fatigue after COVID-19 infection

Aerobic Training Reduces Chronic Airway Inflammation and Mediators of Remodeling in Asthma
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Renilson Moraes-Ferreira, Maysa A. R. Brandao-Rangel, Anaeme Silva-Reis, Victor H. S. Palmeira, Helida C. Aquino-Santos, Claudio R. Frison

Effectiveness of a long-term home-based exercise training in COPD patients: The HOMEX-2 RCT
Anja Frei (Zurich, Switzerland), Thomas Radtke, Kaba Dalla Lana, Ramona Kunz, Tamara Cerini, Milo A. Puhar
Mini symposium: Long-term impact of cystic fibrosis transmembrane conductance regulator (CFTR) modulators in cystic fibrosis patients and potential changes in the management of the disease in CF units

Aims: To review the expected changes associated with the introduction of cystic fibrosis transmembrane conductance regulator (CFTR) modulators in the management of CF patients; to particularly review how the clinical management of paediatric and adult CF patients could change in the future considering the potential benefits of these drugs on disease progression, but also in consideration of potential side effects; to discuss the perspective of early treatment in CF children and the applications of CFTR modulators in special subgroups of CF patients, such as nonresponders and those with rare mutations; to provide a session that is intentionally translational and directed at different specialists and disciplines involved in the management of CF patients.

Disease(s): Paediatric respiratory diseases  Respiratory infections
Method(s): Cell and molecular biology  Epidemiology
Tag(s): Translational

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: Catherine Greene (Dublin 9, Ireland), Refika Hamutcu Ersu (Ottawa, Canada)

14:15  How CFTR modulators are expected to change the management of CF and its comorbidities
Stuart Elborn (Belfast (Belfast), United Kingdom)

14:30  Impact of CFTR modulators on disease progression in children with CF
Marcus Mall (Berlin, Germany)

14:45  Nonresponders and rare mutation classes: ex vivo models to test CFTR modulator efficacy
Irene Oglesby (Dublin 9, Ireland)

15:00  Discussion and Q&A
All Speakers
Investigating the impact of a structured diagnostic pathway for chronic breathlessness on patient reported outcomes: a feasibility cluster RCT in primary care
Gillian Doe (Leicester, United Kingdom), Jill Clanchy, Simon Wathall, Shaun Barber, Chantrell Stacey, Sarah Edwards, Helen Evans, Darren Jackson, Noel Baxter, Michael Steiner, Rachael Evans

Delivery of supported self-management in asthma reviews: an observational study
Emma Mcclatchey (Edinburgh, United Kingdom), Kirstie Steed, Hilary Pinnock

Annual and post-exacerbation follow-up of COPD patients in clinical practice – a large population-based study in Sweden
Christr Janson (Uppsala, Sweden), Hanna Sandelowsky, Fredrik Wiklund, Gunilla Telg, Sofie De Fine Licht, Björn Ställberg

Rate of admission and readmission to the emergency department (ED) associated with physician visits among patients with asthma
Irvin Mayers (Edmonton (AB), Canada), Stephen Noorduyn, Arsh Randhawa, Mena Soliman, Manisha Talukdar, Christina Qian, Karissa Johnston, Pramoda Jayasinghe, Mohit Bhattani

Incidence of physical frailty in older subjects with lung function impairment and frailty transitions: a population-based study.
Lies Lahousse (Ghent, Belgium), Sara Wijnant, Elizabeth Benz, Annemarie Luik, Fernando Rivadeneira, Trudy Voortman, Guy Brusselle

IMPlementing IMProved Asthma self-management as RouTine (IMP2ART) in primary care: internal pilot for a cluster randomised controlled trial
Kirstie McClatchey (Edinburgh, United Kingdom), Jessica Sheringham, Atena Barat, Brigitte Delaney, Barbara Searle, Viv Marsh, Vicky Hammersley, Stephanie Taylor, Hilary Pinnock

Pulmonary rehabilitation using peer volunteers in a rural Indian setting: A feasibility study
BISWAJIT PAUL (Vellore, India), Paul Jebaraj, Rita Isaac, Deepa Das, John Norrie, David Weller

Covid Virtual Ward: Are we effectively managing patients in the community following hospitalisation from Acute COVID infection?
Sarah Sibley (Altrincham (Cheshire), United Kingdom), Emma Rickards, Dennis Wat

Oral presentation: Translational research in sleep apnoea: from the molecule and the signal to the clinic
Disease(s) : Sleep and breathing disorders
Method(s) : Cell and molecular biology Physiology General respiratory patient care Pulmonary function testing
Chairs : Claire Arnaud (Grenoble, France), Manuel Sanchez De La Torre (Lleida, Spain)

Sleep apnea syndrome and atherosclerosis: VE-Cadherin as a new antiatherogenic target?
Olfa Harki (LA TRONCHE, France), Sophie Bouyon, Emeline Lemarié, Alexandra Demory, Carole Chirica, Isabelle Vilgrain, Jean-Louis Pépin, Gilles Faury, Anne Briançon-Marjollet

Proteomic profiling in patients with acute coronary syndrome and obstructive sleep apnea: A post-hoc analysis from the ISAACC study.
Andrea Zapater Matute (Lleida, Spain), Esther Gracia-Lavedan, Gerard Torres, Alicia Sánchez-De-La-Torre, Albina Aldoma, Olga Minguéz, Lydia Pascual, Anunciación Cortijo, Dolores Martinez, Ivan David Benitez, Ferran Barbé, Manuel Sánchez-De-La-Torre

The effect of the GLP-1 analogue Liraglutide on intermittent hypoxia-induced systemic insulin resistance in vivo
Aibhhe King (Dublin, Ireland), Claire Arnaud, Guillaume Vial, Emma Billoir, Bilgehan Ozcan, Elise Belaidi, Cliona O'Donnell, Silke Ryan

Short-term continuous positive air pressure (CPAP) treatment: effects on cardiac structural changes and function in patients with obstructive sleep apnea (OSA)
Laima Kondrataviciene (Kaunas, Lithuania), Egle Tamulenaite, Egle Ereminiene, Skaidrius Miliauskas

Long non-coding RNA FKSG29 over-expression in patients with obstructive sleep apnea modulates intermittent hypoxia-induced oxidative stress and cell apoptosis via sponging miR-23a-3p-IL6R signaling
Yung-Che Chen (Kaohsiung, Taiwan), Meng-Chih Lin, Po-Yuan Hsu, Chang-Chun Hsiao, Ting-Ya Wang
### OA4388
**Polysomnographic characterization of the circadian blood pressure patterns in patients with obstructive sleep apnea**
Lucia Pinilla (Lleida, Spain), Olga Mínguez, Maria Aguilita, Rafaela Vaca, Iván David Benítez, Gerard Torres, Olga Mediano, Juan Fernando Masa, María Jose Masdeu, Ferran Barbé, Manuel Sánchez-De-La-Torre

### OA4389
**Autophagy impairment in patients with obstructive sleep apnea mediates intermittent hypoxia-induced apoptosis and cytotoxicity via hypermethylation of the MAP1LC3B and ATG5 promoter regions**
Yung-Che Chen (Kaohsiung, Taiwan), Meng-Chih Lin, Po-Yuan Hsu, Chang-Chun Hsiao, Ting-Ya Wang

### OA4390
**Intermittent hypoxia and pregnancy in a rat model: respiratory and metabolic effects on mothers and offspring**
Esther Valverde Pérez (Valladolid, Spain), Jesus Prieto-Lloret, Oscar Rios-Rodriguez, Marta De Pablos, Ángela Gómez-Niño, Ricardo Riguil, Ana Obeso, Isaac Almendros, Ramón Farré, Asunción Rocher, Elena Olea

### OA4391
**DYSLIPIDEMIA PREVALENCE IN NON-OBESE NON-DIABETIC PATIENTS WITH OBSTRUCTIVE SLEEP APNEA: DOES SEX MATTER?**
Mehmet Sezai Taşbakan (Izmir, Turkey), Ozen K. Basoglu, Merak Kayikcióglu

### OA4392
**Late Breaking Abstract - Inflammasome activation: A keystone of proinflammatory response in obstructive sleep apnea**
Elena Díaz García (Madrid, Spain), Sara García, Enrique Alfaro, Ana Jaureguizar, Raquel Casitas, Begoña Sanchez, Ester Zamarrón, Juan Fernández, Francisco García, Carolina Cubillos

### OA4393
**Discussion**
All Speakers

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### 8D Session 488 14:30 - 16:50
**Skills workshop: SW9 Thoracic ultrasound**

**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:** Konstantina Kontogianni (Heidelberg, Germany)

- **14:30** The normal thoracic cavity
  Valentina Pinelli (Sarzana, Italy), Beenish Iqbal (London, United Kingdom)

- **15:00** Pleural effusion and/or pleural thickening
  Gilles Mangiapan (Creteil, France), Giovanni Volpicelli (Torino (TO), Italy)

- **15:30** Case studies
  Hugh Welch (Bristol, United Kingdom), John Wrightson (Oxford, United Kingdom)

- **16:00** Lymph node biopsy using models
  Rachid Tazi Mezalek (Barcelona, Spain), Rachel Mercer (Winchester, United Kingdom)

### Studio - online Session 489 15:30 - 16:30
**Language session: French programme 2022**

**A joint ERS/SPLF session**

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

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

**Tag(s):** COVID

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

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium), Jesus Gonzalez Bermejo (Montlignon, France)

- **15:30** Recommandations pour la prise en charge de l'asthme : GINA 2021 versus SPLF 2021
  Chantal Raherison-Semjen (Pointe-à-Pitre, Guadeloupe)

- **15:40** Que retenir des recommandations internationales sur les pneumopathies d’hypersensibilité ? / International recommendations on hypersensitivity pneumonitis
  Vincent Cottin (Lyon, France)

- **15:50** Discussion and Q&A
  All Speakers

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ERS International Congress 2022
DETAILED PROGRAMME
Tuesday 06 September, 2022
8N  Session 495  15:45 - 17:00

**Oral presentation: Pneumonia**

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

**Method(s):** General respiratory patient care, Respiratory intensive care, Cell and molecular biology, Epidemiology, Public health

**Chairs:** Tobias Welte (Hannover, Germany), Chair to be confirmed

**OA4404**

Investigating neutrophil AMPK activity in COVID-19 and pneumonia
Yan Hui Giam (Dundee (Angus), United Kingdom), Merete B Long, Lilia Delgado, Hani Abo-Leyah, Holly R Keir, Thomas Pembridge, Rebecca Hull, Amy Gilmour, Chloe Hughes, Hollin Richardson, Diane Cassidy, Amelia Shoemark, James D Chalmers

**OA4405**

Clinical efficacy between cefoperazone-sulbactam and prolonged infusion of piperacillin-tazobactam in the treatment of severe CAP, HAP and VAP: a retrospective multicenter cohort study
Chuan Yen Sun (Taipei, Taiwan), Wei Chih Chen

**OA4406**

The efficacy of telavancin in comparison to linezolid on endotracheal tube biofilm in pigs with MRSA pneumonia-KASRA KIAROSTAMI (Barcelona, Spain), Denise Battaglini, Anna Motos, Leticia Bueno Freire, Alba Soler Comas, Hua Yang, Minlan Yang, Francesco Pagliara, Eli Aguilera Xiol, Andrea Meli, Joaquim Bobi, Tarek Senussi Testa, Francesco Idone , Montserrat Rigol, Gianluigi Li Bassi, Laia Fernández-Barat, Antoni Torres

**OA4407**

Machine learning for mortality prediction in community-acquired pneumonia emergency admissions
Daniel Lozano-Rojas (Leicester, United Kingdom), Alistair A Mcewan, Gerrit Woltmann, Robert C Free

**OA4408**

Patients with COVID-19 versus non-COVID-19 community-acquired pneumonia

**OA4409**

Impact of severe lymphopenia on outcome of patients with pneumonia and positive pneumococcal urinary antigen
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernández, Silvia Pérez-Fernández, Sonia Castro Quintas, Amaia Urrutia Gajate, Beatriz González Quero, Alejandro Rezola Carusasun, Amaia Artaraz Ereño, Ainhoa Gómez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

**OA4410**

Development of AI models to predict mortality and long-term hospitalization in pneumonia
Taiki Furukawa (Nagoya (Aichi), Japan), Shintaro Oyama, Shotaro Misawa, Ryuji Kano, Hirokazu Yarimizu, Yoshimune Shiratori

**OA4411**

Neutrophils in elderly hospitalised community acquired pneumonia patients are immature and migrate inaccurately
Shaun Thein (Birmingham (West Midlands), United Kingdom), Aduragbemi Faniyi, Frances Grudzinska, Onn Thein, Kylie Belchamber, Jaimin Patel, Dhruv Parekh, Aaron Scott, Elizabeth Sapey, David Thickett

**OA4412**

The diagnostic and prognostic role of plasminogen activator inhibitor-1 (PAI-1) in hospitalized patients with pneumonias of different etiologies
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine)

**OA4413**

Late Breaking Abstract - Are undernutrition and obesity associated with poor outcomes after hospitalization with community-acquired pneumonia – a prospective cohort study.
Maria Hein Hegelund (Hillerød, Denmark), Camilla Koch Ryrso, Christian Ritz, Arnold Dungu, Rikke Krogh-Madsen, Birgitte Lindegaard, Daniel Faurholt-Jepsen

**OA4414**

Discussion
All Speakers

8F  Session 496  15:45 - 17:00

**Oral presentation: New insights into diagnostic and experimental paediatric pulmonology**
Disease(s) : Airway diseases

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

Chairs : Dirk Schramm (Düsseldorf, Germany), Raffaella Nenna (Rome, Italy)

OA4415  Histological and structural effects of biodegradable polydioxanone stents in the rabbit trachea.
Alvaro Gimeno Diaz De Atauri (Madrid, Spain), Rocío Morante, Alicia Usategui, María López, Mª Carmen Luna, Salome Albi, Jose L. Pablos, Juan L. Anton-Pacheco Sanchez

OA4416  Caspase-1 and interleukin-18 in children with post infectious bronchiolitis obliterans.
Tügba Şişmanlar Eyuboglu (Ankara, Turkey), Ayse Tana Aslan, Tugba Ramasl Gursoy, Sevgi Pekcan, Mehmet Kose, Melih Hangul, Latife Arzu Aral, Vedat Bulut

OA4417  Comparison of the lung clearance index in preschool children with primary ciliary dyskinesia and cystic fibrosis.
Jobst Röhmel (Berlin, Germany), Friederike Doerfler, Cordula Koerner-Rettberg, Folke Brinkmann, Anne Schlegendal, Martin Wetzke, Isa Rudolf, Simone Helms, Joerg Grosse-Onnebrink, Yin Yu, Thomas Nuesslein, Irena Wojsyk-Banaszak, Sebastian Becker, Olaf Eickmeier, Olaf Sommerburg, Heymut Omran, Mirjam Stahl, Marcus Mall

OA4418  Low nitric oxide in Primary Ciliary Dyskinesia due to impaired NOS activity – data driven hypothesis.
Anne Schlegendal (Bochum, Germany), Lisa Eggenkemper, Folke Brinkmann, Thomas Lücke, Christoph Maier, Dimitrios Tsikas, Cordula Koerner-Rettberg

OA4419  Diffusion capacity for nitric oxide (DLNO) in paediatric cardiopulmonary disease.
Astrid Madsen Ring (Gentofte, Denmark), Frederik Fourmaiaux Buchvald, Kim Gjerum Nielsen

OA4420  The Relationship of Radiological Scoring with Clinical Findings and Pulmonary Function Decline in Primary Ciliary Dyskinesia.
Nägehan Emiralioğlu (Ankara, Turkey), Berna Oğuz, Beste Öztezen, Dilber Ademhan Tural, Birce Sunman, Halime Nayır Büyükşahin, Ismail Güzelkāş, Didemi Alboğa, Meltem Erdal, Ebru Yağın, Deniz Doğru, Nural Kiper, Üğur Özçelik

OA4421  The ‘knee’ pattern in spirometry flow-volume curve in children: does it relate to tracheomalacia?
Wicharn Boonjindasup (Bangkok, Thailand), Julie Marchant, Margaret Mcelrea, Stephanie Yerkovich, Rahul Thomas, Ian Masters, Anne Chang

OA4422  Late Breaking Abstract - Saliva as an alternative to nasopharyngeal swabs for detection of respiratory syncytial virus (RSV) in children.
Annefleur Langedijk (Utrecht, Netherlands), Orchid Allicock, Michelle Van Wijk, Devyn Yolda-Carr, Daniel Weinberger, Anne Wyllie, Louis Bont

OA4423  Discussion.
All Speakers

Session 497  15:45 - 17:00

8L  Oral presentation: Nursing aspects in asthma and COPD: self-management and pulmonary rehabilitation

Disease(s) : Airway diseases

Method(s) : Cell and molecular biology  Pulmonary rehabilitation  Respiratory intensive care  General respiratory patient care  Public health

Chairs : Andreja Sajnic (Zagreb, Croatia), José Miguel Dos Santos Castro Padilha (Porto, Portugal)

OA4444  Comparing results of the Asthma Control Test and Severe Asthma Quality of life Questionnaire in patients with severe asthma on biologics.
Mariana Rezelj (Stahovica, Slovenia), Jana Tršan, Irena Počvavšek, Tea Močnik, Anja Simonič, Tina Morgan, Peter Kopač, Sabina Škrgat

OA4445  Impact on the quality of life of patients with COPD after three non-pharmacological interventions.
Sabina Miranda Valladares (La Laguna, Spain), Belen Gonzalez Sanchez, Marta Entrambasaguas Martin, Francisca Bernal Prados, Marta Perez Redondo, Maria Jesus Prunera Pardell, Adolfo Domenech Del Rio

OA4446  The impact on number of hospitalizations and length of hospital stay for patients with advanced COPD affiliated with a cross-sectorial lung team.
Birgit Rejsgaard Iversen (Århus N, Denmark), Lotte Rodkjær, Vibeke Bregnballe, Anders Løkke

OA4447  Patients’ experience of automated oxygen administration during hospitalization with acute exacerbation in COPD - a qualitative study.
Charlotte Sandau Bech (Hvidovre, Denmark), Ingrid Poulsen, Vibeke Nørholm, Dorthe Gaby Bove
Pain perception in COPD patients across the COVID-19 pandemic
Maria Granados Santiago (Alcaudete, Spain), Jesús González Dueñas, Andrés Calvache Mateo, Ángela Benítez Feliponi, Alejandro Heredia Ciuró, Marie Carmen Valenza

Pulmonary rehabilitation maintenance programmes: What makes the difference?
Liálnia Silva (Matosinhos, Portugal), Tiago Maricoto, Patrício Costa, Joana Berger, Miguel Padilha

The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure
Fangbo Zhao (Changchun (Jilin), China)

Pulmonary telerehabilitation in the COVID era - pilot program
Sérgio Filipe Alves Vaz (Vila Real, Portugal), Ana Isabel Loureiro, Rita Queiros Rodrigues, Miguel Padilha

Lockdown impact in patients with severe and very severe COPD
Sabina Miranda Valladares (La Laguna, Spain), Marta Entrambasaguas Martin, Belen Gonzalez Sanchez, Marta Perez Redondo, Francisca Bernal Prados, Maria Jesus Prunera Pardell, Adolfo Domenech Del Río

Late Breaking Abstract - Development, and evaluation of a handheld digital inspiratory airflow resistance monitor, to aid remote respiratory consultations in primary care, post the COVID-19 pandemic.
Lindsay Welch (Southampton (Hampshire), United Kingdom), Kacper Wlodarczyk, Aditya Revat, George Everdell, Martin Grigorov, Neil White

Pleuropulmonary manifestations of VEXAS syndrome

Exploring the role of matrix metalloproteinase 2 (MMP-2) as a biomarker in lymphangioleiomyomatosis
Meritxell Boada Pérez (Barcelona, Spain), Eva Maria Revilla Lopez, Victoria Ruiz De Miguel, Susana Gomez Ollés, Berta Saiz

COVID-19 in patients with Pulmonary Alveolar ProteinosisA European multicenter study
Effrosyni D. Manali (Athens, Greece), Spyros Pappiris, Ilaria Campo, Francesca Mariani, Maria Kalieri, Lykourgos Kollekas, Andriana Papapanou, Efsun Gonca Chousein, Erdogan Cetinkaya, Francesca Bonella, Raphael Borie, Maria Kokosi, Thomas Pickworth, Maria Molina-Molina, Mercè Gasa, Elzbieta Radzikowska, Justyna Fjolek, Stéphane Jouneau, Emmanuel Gomez, Cormac McCarthy (Dublin 4, Ireland)

High Prevalence and impact of lung cancer in Surfactant related gene mutation carriers
Alexandre Brudon (Paris, France), Nadia Nathan, Marie Legendre, Serge Amselem, Julien Bermudez, Diane Bouvy, Jacques Cadranel, Aurèle Cazes, Tristan Deg, Céline Delestrain, Rémi Diesler, Ralph Epaud, Pascale Fanen, Anne Gondouin, Anne Guillaume, Sandrine Hirschi, Sylvie Leroy, Sylvain Marchand-Adam, Hilarion Nune, Clément Picard, Grégoire Prévot, Martine Reynaud, Paul De Vuyst, Lidiwine Wemeau, Bruno Crestani, Gérard Zalcman, Vincent Cottin, Raphael Borie

Two distinct trajectories of FEV1 in Adult Pulmonary Langerhans Cell Histiocytosis
Amira Benattia (Paris (Ile-de-France), France), Raphaël Porcher, Emmanuelle Bugnet, Constance De Margerie-Mellon, Gwenaëlo Lorillon, Abdellatif Tazi
A DIPNECH deep dive
Marissa O’Callaghan (County Cork, Ireland), Hussein Almeam, Margaret Gleeson, David Murphy, Dermot O’Toole, Aurelie Fabre, Rachel Cromwell, Cormac McCarthy

Cyst burden on high-resolution computed tomography (HRCT) correlates with VEGF-D in lymphangioleiomyomatosis
Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Marissa Ocallaghan, Joseph Morrow, Niamh Boyle, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac McCarthy

Plasma exchange are not associated with better outcome in MDA5 Rapidly-Progressive Interstitial Lung disease.
Pierre Bay (Creteil, France), Marc Pineton De Chambrun, Rothstein Vicent, Matthieu Mahevas, Nicolas De Prost, Antoine Roux, Benjamin Zubé, Dominique Isräél-Biet, Abdellatif Tazi, Hervier Baptiste, Mouthon Luc, Arsene Mekinian, Christophe Deligny, Raphael Borie, Jean Claude Murice, Alain Meyer, Pascaline Priou, Laurent Savale, Luc De Saint Martin, Pierre Yves Brillet, Philippe Khafagy, Olivier Benveniste, Hilario Nunes, Yves Allenbach, Yurdagul Uzunhan

Discussion
All Speakers

8A - live streamed  Session 499  16:00 - 17:30
Clinical trials session: ALERT 4: Asthma and interventional pulmonology
Aims: Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

Disease(s): Thoracic oncology, Airway diseases
Method(s): Endoscopy and interventional pulmonology, Imaging, General respiratory patient care, Surgery
Tag(s): Clinical
Chairs: Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Daniela Gompelmann (Vienna, Austria)

Discussants: Isabelle Opitz (Zurich, Switzerland), Guy Brusselle (Ghent, Belgium)

Late Breaking Abstract - Tezepelumab reduces mucus plugging in patients with uncontrolled, moderate-to-severe asthma: the phase 2 CASCADE study
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Lars H Nordenmark, Claire Emson, Åsa Hellqvist, James Johnston, Hans Greberg, Janet M. Griffiths, John D. Newell Jr, Jane R. Parnes, Gene Colice

Late Breaking Abstract - Use of digital measurement of medication adherence and lung function to guide the management of uncontrolled asthma: The INCA Sun randomized clinical trial
Richard Costello (Dublin 9, Ireland), Liam Heaney, Des Murphy, Elaine Machale

Wrap-up by discussant and discussion
Guy Brusselle (Ghent, Belgium)

Late Breaking Abstract - Comparative Effect of Lung volume reduction surgery for Emphysema and Bronchoscopic lung volume reduction with valve placement: the CELEB trial.
Sara Catherine Buttery (London, United Kingdom), Adam Lewis, Lorna Latimer, Samuel V Kemp, Pallav L Shah, David Waller, Kelvin Lau, Simon Jordan, Neil Greening, Sri Rathinam, Winston Banya, Alan J B Kirk, Rocco Biliancia, Sara Tenconi, Kay Housley, Rod Lawson, Michael C Steiner, Nicholas S Hopkinson

Late Breaking Abstract - Sustained health-related quality of life in patients with severe heterogenous emphysema treated with spiral valve system at 24-month follow-up (EMPROVE)
Gerard J. Criner (Philadelphia, United States), Antoine Delage, Kirk Voelker, Simon Martel, Emprove Investigators The Emprove Trial Investigator Group

Wrap-up by discussant and discussion
Isabelle Opitz (Zurich, Switzerland)

A randomized controlled trial evaluating the benefit of cone beam CT guidance to electromagnetic navigation bronchoscopy for the diagnosis of pulmonary nodule
Benjamin Bondue (Bruxelles, Belgium), Olivier Taton, Fadi Tannouri, Myriam Remmelink, Dimitri Leduc

RCT Abstract - Endosonography with or without confirmatory mediastinoscopy for resectable lung cancer: A randomized clinical trial
Jouke T. Annema (Amsterdam, Netherlands), Jelle Bousema, Marcel Dijkgraaf, Erik Van Der Heijden, Ad Verhagen, Frank Van Den Broek
Wrap-up by discussant and discussion
Isabelle Opitz (Zurich, Switzerland)

RCT4454

Closing remarks
All Speakers

8B - live streamed Session 500 16:00 - 17:30

Hot topics: Towards elimination of COPD
Innovative views from the Lancet Commission on COPD

Aims: From a revised definition of the disease and its exacerbations to a new aetiopathological classification, the Lancet Commission on COPD puts forward unprecedented concepts around needed steps to undermine one of the major health problems worldwide. The aims of this session are as follows: to identify the reasons why COPD became a worldwide major health problem; to discuss current shortcomings in COPD diagnosis and therapy; to explore new diagnostic methods for COPD; to appraise an unprecedented aetiological classification of the disease; to discuss the proposed work-up for an acute exacerbation and its diagnosis; to review unmet targets in COPD therapy; to identify deliverable read-outs for COPD control and elimination.

Disease(s): Airway diseases, Pulmonary vascular diseases, Respiratory infections

Method(s): Cell and molecular biology, 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, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

Chairs: Katerina Antoniou (Heraklion, Greece), Apostolos Bossios (Stockholm, Sweden), Sabine Kleinert (London, United Kingdom)

16:00 Why is COPD a pandemic? What matters to patients? MeiLan K. Han (Ann Arbor, United States)

16:15 Revisiting the diagnosis and classification of COPD Daiana Stolz (Basel, Switzerland)

16:30 Pharmacological and nonpharmacological unmet needs in COPD Donald Sin (Vancouver (BC), Canada)

16:45 How do we eliminate COPD? Mark Dransfield (Birmingham, United States)

17:00 Discussion and Q&A All Speakers

8C - live streamed Session 501 16:00 - 17:30

Clinical cases: Lungs on fire: Respiratory critical care / Sleep and Breathing disorders

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Paediatrician, Physican in Pulmonary Training, Nurse, Physiologist, Medical Student

Chairs: Maxime Patout (Paris, France), Maria Bonsignore (Palermo, Italy), João Carlos Winck (Vila Nova de Gaia, Portugal)

Discussants: Marieke L. Duiverman (Groningen, Netherlands), Leo Heunks (Amsterdam, Netherlands)

16:00 Case 1 incl. panel discussion and Q&A - Author: J. P. Duarte dos Santos Oliveira Rodrigues (Portugal) Marieke L. Duiverman (Groningen, Netherlands)

16:22 Case 2 incl. panel discussion and Q&A - Author: A. F. Pacheco Reyes (Spain) Leo Heunks (Amsterdam, Netherlands)

16:44 Case 3 incl. panel discussion and Q&A - Author: A. Breslavsky (Israel) Marieke L. Duiverman (Groningen, Netherlands)

17:06 Case 4 incl. panel discussion and Q&A - Author: M. Thilakarathna (Sri Lanka) Leo Heunks (Amsterdam, Netherlands)
### Session 502
**16:00 - 17:30**

**8G - live streamed**

**Hot topics: The practice and the planet: how can climate change and air pollution be addressed from clinical practice?**

**Aims:** to provide an overview of the newest evidence of impacts of air pollution and climate change on respiratory health and discuss the role of respiratory clinicians in climate change mitigation and adaptation.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Patient

**Chairs:** Sara De Matteis (Cagliari, Italy), Rafael E. de la Hoz (New York, United States)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:00</td>
<td><strong>Why should clinicians care about climate change?</strong></td>
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<tr>
<td>16:15</td>
<td><strong>Planetary health as a priority in medical training</strong></td>
<td>Josep Maria Anto Boque (Barcelona, Spain)</td>
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<tr>
<td>16:30</td>
<td><strong>Clinical relevance of the new WHO air quality guidelines and how to consider exposure to low-levels of air pollution in adults: an overview</strong></td>
<td>Zorana Andersen (Frederiksberg, Denmark)</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>Exposure to low-levels of air pollution and respiratory diseases in children: an overview</strong></td>
<td>Erik Melén (Stockholm, Sweden)</td>
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<tr>
<td>17:00</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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### Session 503
**16:00 - 17:30**

**8H - live streamed**

**Symposium: Malignant pleural effusion management: applying the evidence in 2022 Session**

**Aims:** to review the current biological understanding and potential mechanisms of malignant effusion progression and the implications for practice; to explain the relationship between anatomy, physiology and symptoms in pleural disease and the implications for practice; to describe evidence about optimal talc pleurodesis, including its use thoracoscopically; to provide insight into the current evidence for adjunctive treatments with indwelling plural catheters and novel indwelling plural catheter devices and their evidence.

**Disease(s):** Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs:** Najib M. Rahman (Oxford, United Kingdom), Georgia Hardavella (Athens, Greece)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:00</td>
<td><strong>From malignant effusion to malignant progression: what do translational studies tell us?</strong></td>
<td>Rachelle Aściak (SIGGIEWI, Malta)</td>
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<tr>
<td>16:15</td>
<td><strong>Understanding the impact, treatment response and outcome of malignant pleural effusions</strong></td>
<td>Gary Yc Lee (Perth (WA), Australia)</td>
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<tr>
<td>16:30</td>
<td><strong>Inpatient pleurodesis: translating the evidence into practice</strong></td>
<td>Najib M. Rahman (Oxford, United Kingdom)</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>Adjunctive indwelling pleural catheter management: from outpatient talc to drug-eluting catheters</strong></td>
<td>Nick Maskell (Bristol (Avon), United Kingdom)</td>
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<tr>
<td>17:00</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
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### Session 504
**16:45 - 17:15**

**Studio - online**

**Pro-Con debate: Is pharmacological or non-pharmacological management the priority for the patient who wants to be "less breathless and do more"**
Aims: to describe the definition and prevalence of chronic breathlessness; to compare the latest evidence of pharmacological and nonpharmacological management for persons living with chronic breathlessness and identify the research gaps; to improve the clinical care of the person living with chronic breathlessness by utilising a blend of nonpharmacological and pharmacological strategies in the right patient at the right time.

Disease(s): Airway diseases, Interstitial lung diseases

Method(s): General respiratory patient care, Palliative care, Pulmonary rehabilitation

Tag(s): Clinical

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

Chairs: Richard Costello (Dublin 9, Ireland), Nicolas Roche (Paris, France), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

16:45 Pharmacological management is the priority to improve chronic breathlessness
David Currow (Sydney (NSW), Australia)

16:55 Non-pharmacological management is the priority to improve chronic breathlessness
Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

17:05 Discussion and Q&A
All Speakers

Studio - online Session 505 17:15 - 17:30

News from the Studio: Congress wrap-up
Chairs: Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France)

17:15 Discussion and Q&A
All Speakers

18:00-19:30 INDUSTRY EVENING SYMPOSIUM SEE PAGE 1
Postgraduate course: PG1 Part I: Cardiovascular and neurological consequences of obstructive sleep apnoea: an update

**Aims:** to summarise the current knowledge of the many clinical faces of obstructive sleep apnoea (OSA) characterised by a variable degree of daytime sleepiness, gender differences of OSA symptoms and differences in the presence of comorbid insomnia, resulting in various comorbidities. It will cover the heterogeneity of OSA and its cognitive outcomes, especially in terms of attention and executive functions, and the potential bidirectional relationship with dementia, focusing on early identification, prevention and treatment strategies. The physiological and biochemical mechanisms connecting OSA with metabolic syndrome and diabetes, clinically meaningful phenotyping, improved prognosis and personalised treatment will be covered. The impact of the severity of OSA on the risk and outcomes of cardiovascular diseases and evidence of the impact of OSA treated with or without continuous positive airway pressure (CPAP) on morbidity and mortality outcomes will be discussed. The challenges facing sleep medicine regarding the important effect of CPAP on patient outcomes and the role of compliance will be highlighted.

**Disease(s):** Paediatric respiratory diseases, Respiratory critical care, Sleep and breathing disorders

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

**Tag(s):** Clinical

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

**Chairs:** Maria Bonsignore (Palermo, Italy), Matteo Bradicich (Zollikerberg, Switzerland)

**09:30**  
Clinical OSA phenotypes from sleepiness to mild and asymptomatic OSA and their relevance  
Sophia E. Schiza (Heraklion, Greece)

**09:50**  
Discussion and Q&A  
Sophia E. Schiza (Heraklion, Greece)

**10:00**  
Stroke, minimal cognitive impairment/dementia and OSA: a bidirectional relationship?  
Speaker to be confirmed

**10:20**  
Discussion and Q&A  
Speaker to be confirmed

**10:30**  
Break

**10:45**  
Various pathophysiological mechanisms leading to cardiovascular sequelae of OSA and their relevance  
Carolina Lombardi (Milano (MI), Italy)

**11:05**  
Discussion and Q&A  
Carolina Lombardi (Milano (MI), Italy)

**11:15**  
What is the impact of OSA treated with or without CPAP on cardiovascular morbidity and mortality outcomes?  
Dries Testelmans (Leuven, Belgium)

**11:35**  
Discussion and Q&A  
Dries Testelmans (Leuven, Belgium)

**11:45**  
Break

**12:00**  
Group assignment  
Sophia E. Schiza (Heraklion, Greece), Carolina Lombardi (Milano (MI), Italy), Dries Testelmans (Leuven, Belgium), Speaker to be confirmed

Postgraduate course: PG1 Part II: outcomes of central sleep apnoea and hypoventilation syndromes

**Aims:** to summarise the current knowledge of early recognition and effective hypoventilation treatment using various currently available treatment modalities with the scope to improve patient-centred outcomes; different clinical phenotypes of Central sleep apnoea (CSA) in heart failure (HF) patients, their correlation with prognosis and their relevance for identifying individualised therapeutic strategies to improve morbidity, mortality and patient-centred outcomes; early recognition and effective preoperative and postoperative management of patients with sleep-disordered breathing and use of anaesthetics to improve patient safety and outcomes of surgery; and various types of sleep diagnostic tests (type I–IV), their use depending on the patient’s profile and their strengths and limitations.
Disease(s): Paediatric respiratory diseases, Respiratory critical care, Sleep and breathing disorders
Method(s): Epidemiology, General respiratory patient care, Physiology
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist
Chairs: Dries Testelmans (Leuven, Belgium), Marta Susana Monteiro Drummond Freitas (Maia, Portugal)

14:00 Clinical phenotypes of CSA: relevance for treatment decisions and patient outcomes  
Winfried J. Randerath (Solingen, Germany)

14:20 Discussion and Q&A  
Winfried J. Randerath (Solingen, Germany)

14:30 Obesity hypoventilation syndrome: one size does not fit all. Which patients will benefit from various therapeutic options?  
Jean-Louis Pépin (Grenoble, France)

14:50 Discussion and Q&A  
Jean-Louis Pépin (Grenoble, France)

15:00 Break

15:15 Preoperative and postoperative evaluation of patients with various forms of sleep-disordered breathing: relevance for patient outcomes  
Özen K. Basoglu (Izmir, Turkey)

15:35 Discussion and Q&A  
Özen K. Basoglu (Izmir, Turkey)

15:45 Type I–IV diagnostic modalities: which one to choose according to various forms of sleep-disordered breathing  
Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

16:05 Discussion and Q&A  
Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

16:15 Break

16:30 Group assignment  
Winfried J. Randerath (Solingen, Germany), Jean-Louis Pépin (Grenoble, France), Özen K. Basoglu (Izmir, Turkey), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

PG Room 2 Session 518 14:00 - 17:30
PG Room 2 Postgraduate course: PG2 Paediatric respiratory diseases: focus on infections
Aims: to provide clinicians with practical take-home messages regarding the key management and health policy issues related to respiratory disease in children, focusing on airway and lung infections; to provide a state-of-the-art update on four important paediatric topics, namely, SARS-CoV-2, infections in cystic fibrosis, tuberculosis and complicated pneumonia.

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, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Respiratory therapist
Chairs: Stefan Unger (Edinburgh (Edinburgh), United Kingdom), Marijke Proesmans (Leuven, Belgium)

14:00 SARS-CoV-2-associated lung infections in children  
Ahmad Kantar (Bergamo (BG), Italy)

14:20 Discussion and Q&A  
Ahmad Kantar (Bergamo (BG), Italy)

14:30 Infections in children with cystic fibrosis in the era of highly effective modulator therapy  
Speaker to be confirmed
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
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<td>All Speakers, Speaker to be confirmed</td>
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<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:15</td>
<td>Update on lung tuberculosis in children</td>
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<td>James Seddon (London, United Kingdom)</td>
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<td>15:35</td>
<td>Discussion and Q&amp;A</td>
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<td>James Seddon (London, United Kingdom)</td>
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<td>15:45</td>
<td>Management of complicated pneumonia in children</td>
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<td>Speaker to be confirmed</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
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<td>All Speakers, Speaker to be confirmed</td>
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<tr>
<td>16:15</td>
<td>Break</td>
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<td>16:30</td>
<td>Group assignment</td>
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<tr>
<td></td>
<td>Ahmad Kantar (Bergamo (BG), Italy), James Seddon</td>
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<td>(London, United Kingdom), Speaker to be confirmed</td>
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Postgraduate course: PG3 Pleural disease: Applying the evidence

**Aims:** to discuss the large volume of high-quality trial data being published about pleural disease, including phase III trials in several subspecialty areas and updated international guidelines that are due to be published in early 2022. In terms of malignant pleural effusion, participants will be able to select the optimal diagnostic strategy, including thoracoscopy and direct-to-biopsy approaches, and explain the proven advantages and disadvantages of different management options to facilitate patient-centred, evidence-based care. In terms of pleural infection, participants will be able to correctly diagnose and identify patients requiring drainage, adjunctive intrapleural therapies and referral for surgery, deploy risk prediction scores and explain relevant translational and antimicrobial data. In terms of pneumothorax, participants will be able to differentiate between patients requiring admission and those suitable for ambulatory management, based on recent phase III trials, and identify the importance of familial pneumothorax and ongoing trials, including those involving the use of suction. In terms of mesothelioma, participants will be able to select optimal diagnostic and treatment strategies including first- and second-line immunotherapy and learn about the role of regional multidisciplinary teams and options for patients with early-stage disease, including radical surgery and ongoing clinical trials.

**Disease(s):** Respiratory infections, Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon

**Chairs:** Kevin Blyth (Glasgow (Glasgow), United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Evidence-based diagnosis and management of malignant pleural effusion</td>
<td>Selina Tsim (Glasgow (Glasgow), United Kingdom)</td>
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<tr>
<td>09:50</td>
<td>Discussion and Q&amp;A</td>
<td>Selina Tsim (Glasgow (Glasgow), United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>Interactive case: malignant pleural effusion</td>
<td>Radhika Banka (Mumbai (Maharashtra), India)</td>
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<td>10:30</td>
<td>Break</td>
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<tr>
<td>10:45</td>
<td>Stratified therapy for pleural infection: integrating outcome prediction, intrapleural therapy and surgery</td>
<td>Najib M. Rahman (Oxford, United Kingdom)</td>
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<tr>
<td>11:05</td>
<td>Discussion and Q&amp;A</td>
<td>Najib M. Rahman (Oxford, United Kingdom)</td>
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<tr>
<td>11:15</td>
<td>Interactive case: pleural infection</td>
<td>Deirdre B. Fitzgerald (Perth, Australia)</td>
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<td>11:45</td>
<td>Break</td>
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<tr>
<td>12:00</td>
<td>Pneumothorax: is ambulatory care ready for prime time?</td>
<td>Rob Hallifax (Oxford (Oxfordshire), United Kingdom)</td>
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<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
<td>Rob Hallifax (Oxford (Oxfordshire), United Kingdom)</td>
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<tr>
<td>12:30</td>
<td>Interactive case: pneumothorax</td>
<td>Julius P. Janssen (Nijmegen, Netherlands)</td>
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<td>13:00</td>
<td>Lunch break</td>
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<td>14:00</td>
<td>Mesothelioma: integrating new therapies, better diagnostics and clinical trials</td>
<td>Vasiliki Panou (Odense, Denmark)</td>
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<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>Vasiliki Panou (Odense, Denmark)</td>
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<tr>
<td>14:30</td>
<td>Interactive case: mesothelioma</td>
<td>Anna Bibby (Bristol (Avon), United Kingdom)</td>
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### Postgraduate course: PG4 Back to clinical physiology

**Aims**: to explain the basic principles of respiratory physiology and how they can be applied to clinical practice.

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

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

**Tag(s)**: Clinical

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

**Chairs**: William Stringer (Long Beach, United States), Camille Rolland-Debord (clermont-ferrand, France)

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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>From pulmonary gas exchange to the interpretation of arterial blood gases</td>
<td>Paolo Palange (Rome, Italy)</td>
<td>4550</td>
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<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>Paolo Palange (Rome, Italy)</td>
<td>4551</td>
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<tr>
<td>14:30</td>
<td>Pulmonary circulation: from physiology to clinical applications</td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
<td>4552</td>
</tr>
<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
<td>4553</td>
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<tr>
<td>15:00</td>
<td>Break</td>
<td></td>
<td>4554</td>
</tr>
<tr>
<td>15:15</td>
<td>Respiratory mechanics and respiratory muscle function</td>
<td>Caroline Jolley (London, United Kingdom)</td>
<td>4555</td>
</tr>
<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>Caroline Jolley (London, United Kingdom)</td>
<td>4556</td>
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<tr>
<td>15:45</td>
<td>The mechanics of breathing in intensive care unit patients, particularly in the era of COVID-19</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
<td>4557</td>
</tr>
<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
<td>4558</td>
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<tr>
<td>16:15</td>
<td>Break</td>
<td></td>
<td>4559</td>
</tr>
<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Paolo Palange (Rome, Italy), Silvia Ulrich (Zurich, Switzerland), Caroline Jolley (London, United Kingdom), Laurent Brochard (Toronto (ON), Canada)</td>
<td>4560</td>
</tr>
</tbody>
</table>
Postgraduate course: PG5 Masterclass in asthma

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

Disease(s): Airway diseases

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

Tag(s): Clinical

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

Chairs: Apostolos Bossios (Stockholm, Sweden), Mona Al-Alhamd (Kuwait, Kuwait)

08:30 Latest updates in the guidelines of asthma: diagnosis and management
Ayşe Arzu Yorgancioğlu (Konak, Turkey)

08:50 Discussion and Q&A
Ayşe Arzu Yorgancioğlu (Konak, Turkey)

09:00 Assessing and monitoring asthma
Florence Schleich (Liège, Belgium)

09:20 Discussion and Q&A
Florence Schleich (Liège, Belgium)

09:30 Break

09:45 Making sense of phenotypes and endotypes in asthma
Renaud Louis (Liège, Belgium)

10:05 Discussion and Q&A
Renaud Louis (Liège, Belgium)

10:15 Pharmacological treatment and current controversies
Guy Brusselle (Ghent, Belgium)

10:35 Discussion and Q&A
Guy Brusselle (Ghent, Belgium)

10:45 Break

11:00 Interactive cases by participants
Stylianos Loukides (Athens, Greece), Manali Mukherjee (Hamilton (ON), Canada), Ayşe Arzu Yorgancioğlu (Konak, Turkey), Angela Zacharasiewicz (Wien, Austria)

PG Room 2  Session 522  14:00 - 17:30

Postgraduate course: PG6 Masterclass in COPD

Aims: to describe methods of diagnosing, assessing and managing patients with COPD; to present methods of 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, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist

Chairs: Apostolos Bossios (Stockholm, Sweden), Ayşe Arzu Yorgancioğlu (Konak, Turkey)

14:00 Latest updates in the guidelines for COPD: diagnosis and management
Konstantinos Kostikas (Ioannina, Greece)

14:20 Discussion and Q&A
Konstantinos Kostikas (Ioannina, Greece)

14:30 Assessing and monitoring COPD
MeiLan K. Han (Ann Arbor, United States)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>MeiLan K. Han (Ann Arbor, United States)</td>
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<tr>
<td>15:00</td>
<td>Break</td>
<td></td>
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<tr>
<td>15:15</td>
<td>Making sense of phenotypes and endotypes in COPD</td>
<td>Daiana Stolz (Basel, Switzerland)</td>
<td></td>
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<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>Daiana Stolz (Basel, Switzerland)</td>
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<tr>
<td>15:45</td>
<td>Pharmacological treatment and current controversies</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
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<tr>
<td>16:15</td>
<td>Break</td>
<td></td>
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<tr>
<td>16:30</td>
<td>Interactive cases by participants</td>
<td>Stylianos Loukides (Athens, Greece), Miriam Barrecheguren Fernandez (Barcelona, Spain), Daiana Stolz (Basel, Switzerland)</td>
<td></td>
</tr>
</tbody>
</table>
Postgraduate course: PG7 How to improve research strategies in pneumonia
ECRAID-base project

Aims: to review limitations of pneumonia research and potential advances in this field to improve research and the development of future trials in pneumonia in both community and hospital settings.

Disease(s): Respiratory infections

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

Tag(s): Clinical

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

Chairs: Eva Polverino (Barcelona, Spain), Marc Bonten (Utrecht, Netherlands)

08:30 Strengths and limitations of clinical trials in pneumonia
Tobias Welte (Hannover, Germany)

08:50 Discussion and Q&A
Tobias Welte (Hannover, Germany)

09:00 Advances in microbiological diagnosis of respiratory tract infections
Cristina Prat Aymerich (Utrecht, Netherlands)

09:20 Discussion and Q&A
All Speakers, Cristina Prat Aymerich (Utrecht, Netherlands)

09:30 Break

09:45 Definition criteria of pneumonia from the perspective of regulatory agencies
Radu Botgros (London, United Kingdom)

10:05 Discussion and Q&A
All Speakers, Radu Botgros (London, United Kingdom)

10:15 Adaptive trials in respiratory tract infections
Speaker to be confirmed

10:35 Discussion and Q&A
All Speakers, Speaker to be confirmed

10:45 Break

11:00 Group assignment
Tobias Welte (Hannover, Germany), Radu Botgros (London, United Kingdom), Cristina Prat Aymerich (Utrecht, Netherlands), Speaker to be confirmed

Postgraduate course: PG8 The challenges of chronic noninvasive ventilation
A case-based discussion

Aims: to discuss titration of chronic noninvasive ventilation (NIV) in patients with bulbar complaints, including how to adjust patients, additional therapies and techniques, when to decide that NIV goals have not been achieved, when to switch to invasive mechanical ventilation and when to decide to stop; to discuss titration of chronic NIV in patients with chronic obstructive pulmonary disease (COPD), including whether to aim for high-intensity NIV, how to adjust patients to high-intensity NIV, the back-up respiratory rate, inspiration and expiration times and new modes; to discuss the detection and clinical consequences of patient-ventilator asynchrony, including whether this should be treated in chronic care and how to reliably detect it; to discuss the value of alternative (autotitrating) modes, including whether AVAPS and EFL titration modes or other alternatives should be used.

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

Method(s): General respiratory patient care Physiology Respiratory intensive care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Respiratory therapist

Chairs: Marieke L. Duiverman (Groningen, Netherlands), Jesus Gonzalez Bermejo (Montlignon, France)
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
<th>Location(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Chronic NIV in patients with bulbar disease: challenges and goals</td>
<td>Peter J. Wijkstra</td>
<td>Groningen, Netherlands</td>
<td>4594</td>
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<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>Peter J. Wijkstra</td>
<td>Groningen, Netherlands</td>
<td>4595</td>
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<tr>
<td>14:30</td>
<td>Chronic NIV in patients with COPD: what is the best way to go?</td>
<td>Chloé Cantero</td>
<td>Paris, France</td>
<td>4596</td>
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<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>Chloé Cantero</td>
<td>Paris, France</td>
<td>4597</td>
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<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:15</td>
<td>Is patient-ventilator asynchrony also important in chronic care?</td>
<td>Michelle Ramsay</td>
<td>Esher, United Kingdom</td>
<td>4599</td>
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<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>Michelle Ramsay</td>
<td>Esher, United Kingdom</td>
<td>4600</td>
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<tr>
<td>15:45</td>
<td>New NIV modes: what is available, and when should they be used?</td>
<td>Maxime Patout</td>
<td>Paris, France</td>
<td>4601</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
<td>Maxime Patout</td>
<td>Paris, France</td>
<td>4602</td>
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<tr>
<td>16:15</td>
<td>Break</td>
<td></td>
<td></td>
<td>4603</td>
</tr>
<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Peter J. Wijkstra, Michelle Ramsay, Maxime Patout, Chloé Cantero</td>
<td>Groningen, Netherlands, Esher, United Kingdom, Paris, France</td>
<td>4604</td>
</tr>
</tbody>
</table>
Postgraduate course: PG9 Diagnosing pulmonary hypertension: what a pneumologist should know

**Aims:** to explain how to correctly diagnose pulmonary hypertension via a stepwise approach, how to perform the diagnostic tests in the correct order, how to interpret the radiology results correctly and how to perform and interpret right heart catheterisation data correctly; to describe the right heart physiology and explain how to interpret right heart parameters correctly; to explain how to apply this knowledge using interactive cases.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Radiologist

**Chairs:** Mona Lichtblau (Zürich, Switzerland), Marion Delcroix (Leuven, Belgium), Louise Bouman-van der Waal (Piershil, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session title</th>
<th>Speaker(s)</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>08:30</td>
<td>The diagnostic algorithm in pulmonary hypertension</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
<td>4605</td>
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<tr>
<td>08:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
<td>4606</td>
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<tr>
<td>09:00</td>
<td>The radiology of pulmonary hypertension</td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
<td>4607</td>
</tr>
<tr>
<td>09:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
<td>4608</td>
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<tr>
<td>09:30</td>
<td><strong>Break</strong></td>
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<tr>
<td>09:45</td>
<td>Correctly performing right heart catheterisation and interpreting the data</td>
<td>Gabor Kovacs (Graz, Austria)</td>
<td>4610</td>
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<tr>
<td>10:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Gabor Kovacs (Graz, Austria)</td>
<td>4611</td>
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<tr>
<td>10:15</td>
<td>Evaluation of right ventricular function</td>
<td>Anton Vonk Noordegraaf (Amsterdam, Netherlands)</td>
<td>4612</td>
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<tr>
<td>10:35</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Anton Vonk Noordegraaf (Amsterdam, Netherlands)</td>
<td>4613</td>
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<tr>
<td>10:45</td>
<td><strong>Break</strong></td>
<td></td>
<td>4614</td>
</tr>
<tr>
<td>11:00</td>
<td>Interactive cases</td>
<td>Athénaïs Boucly (Le Kremlin Bicêtre, France), Mitja Jevnikar (Paris, France), Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal)</td>
<td>4615</td>
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</table>

**PG Room 2**

Postgraduate course: PG10 Spirometry today: from theory to practice

**Aims:** to explain the basic principles of spirometry and how to perform it in a standardised and safe way during and after the COVID-19 pandemic following the standardisation of spirometry (ATS-ERS) 2019 update.

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

**Tag(s):** Clinical

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

**Chairs:** Pierantonio Laveneziana (Paris, France), Monika Franczuk (Warszawa, Poland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session title</th>
<th>Speaker(s)</th>
<th>Reference</th>
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<tbody>
<tr>
<td>14:00</td>
<td>The physiological basis of the flow volume curve</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
<td>4616</td>
</tr>
<tr>
<td>14:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
<td>4617</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<tr>
<td>14:30</td>
<td><strong>Ensuring quality and safety of your spirometry service</strong></td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
<td>4618</td>
</tr>
<tr>
<td>14:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
<td>4619</td>
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<tr>
<td>15:00</td>
<td><strong>Break</strong></td>
<td></td>
<td>4620</td>
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<tr>
<td>15:15</td>
<td><strong>Spirometry: effective performance</strong></td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
<td>4621</td>
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<tr>
<td>15:35</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
<td>4622</td>
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<tr>
<td>15:45</td>
<td><strong>Spirometry: what can go wrong and how to rectify it</strong></td>
<td>Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
<td>4623</td>
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<tr>
<td>16:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
<td>4624</td>
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<tr>
<td>16:15</td>
<td><strong>Break</strong></td>
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<td>4625</td>
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<tr>
<td>16:30</td>
<td><strong>Group assignment</strong></td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Aisling McGowan (Dublin 15, Ireland), Rachel Ong-Salvador (Amsterdam, Netherlands), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
<td>4626</td>
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</table>
INDUSTRY SESSIONS
### 8A - live streamed  Session 53  08:00 - 09:15

**Industry Early Morning Symposium: Understanding RSV: Identifying high risk adults**

*Organised by Janssen Pharmaceutica NV*

**Chairs:** Francesco Blasi (Milan, Italy)

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introductions</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
<tr>
<td>08:10</td>
<td>Understanding RSV: Burden of disease in high-risk adults</td>
<td>Ting Shi (Edinburgh, United Kingdom)</td>
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<tr>
<td>08:30</td>
<td>RSV and chronic respiratory diseases: What are the consequences?</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
</tr>
<tr>
<td>08:50</td>
<td>Scientific exchange and Q&amp;A</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<tr>
<td>09:10</td>
<td>Closing remarks</td>
<td>Francesco Blasi (Milan, Italy)</td>
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### 8B - live streamed  Session 54  08:00 - 09:15

**Industry Early Morning Symposium: mRNA science: Transforming the management of respiratory infections**

*Organised by Moderna*

**Chairs:** Roger Paredes (Barcelona, Spain)

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introduction</td>
<td>Roger Paredes (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:05</td>
<td>mRNA platform technology and its potential beyond COVID-19</td>
<td>Melissa Moore (Massachusetts, United States)</td>
</tr>
<tr>
<td>08:20</td>
<td>Current landscape and unmet needs in respiratory medicine</td>
<td>Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:40</td>
<td>Revolutionizing the respiratory disease landscape through advances in vaccinology</td>
<td></td>
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<tr>
<td>09:00</td>
<td>Live Q&amp;A</td>
<td>Roger Paredes (Barcelona, Spain), Eva Polverino (Barcelona, Spain), Melissa Moore (Massachusetts, United States)</td>
</tr>
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</table>

### 8C - live streamed  Session 55  08:00 - 09:15

**Industry Early Morning Symposium: Critical Therapeutic Advances for Optimizing Clinical Outcomes in MAC Lung Disease: An Evidence-to-Practice Update**

*Organised by Insmed*

**Chairs:** Christoph Lange (Borstel, Germany)

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>08:00</td>
<td>The Challenging Morbidity, Risk, and Therapeutic Continuum of MAC Lung Disease: What Have Learned from ERS Treatment Guideline, Real World Experience, and Recent Trials Focused on High Risk/Refractory MAC Lung Disease? How Do We Best Match Antimicrobial Therapies with Individual Patients with NTM-PD?</td>
<td>Christoph Lange (Borstel, Germany)</td>
</tr>
<tr>
<td>08:15</td>
<td>Optimizing Management of MAC Lung Disease with Guideline-Based Therapy: Current, Evidence- and Trial-Based Recommendations for Applying ATS/IDSA/ERS/ESCMID Treatment Plans for NTM-PD to the Front Lines of Patient Care for Refractory and Advanced MAC Pulmonary Disease</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
</tr>
<tr>
<td>08:35</td>
<td>Clinical and Microbiologic Confirmation of MAC Lung Disease: Guiding Antibiotic Selection and Intensity Based on Systematic Microbiological Testing, Risk Stratification, Severity Score Indexes, and Prompt Recognition of Disease Severity Based on Radiographic Findings and Patient Co-Morbidities</td>
<td>Michael Loebinger (London, United Kingdom)</td>
</tr>
</tbody>
</table>
From Trials to Treatment for Challenging Patients with MAC Lung Infection—The Role, Safety, Indications, Evidence, and Practical Aspects of Deploying Inhaled Antimicrobial Formulations to Ensure Regimen Adherence, Minimize Side Effects, and Ensure Antimicrobial Course Completion for MAC Lung Disease
Francesco De Blasio (Pozzuoli (NA), Italy)
### Session 105 10:30 - 11:15

**Industry Skills Lab Workshop: Considerations for ventilator and PI selection for NIV**

*Organised by Philips*

**Chairs:** Julie Yarascavitch (Encinitas, United States)

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<th>Time</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Considerations for ventilators in NIV</td>
<td>Javier Belda (Valencia, Spain)</td>
</tr>
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### Session 106 10:30 - 11:15

**Industry Skills Lab Workshop: What would you do…? Join an interactive session where you get to have your say on NIV patient setup!**

*Organised by ResMed*

**Chairs:** Claudia Crimi (Catania (CT), Italy), OLIVIER SAGNARD (Saint Priest, France)

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<tr>
<td>10:30</td>
<td>An interactive session where you can chat with the experts</td>
<td></td>
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<tr>
<td>10:48</td>
<td>Deep dive into NIV settings in a leakage system and learn how to optimise them to adopt, manage and improve therapy for your patients (includes clinical cases)</td>
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<tr>
<td>11:06</td>
<td>Whether you’re just starting out in NIV management or you’re more advanced, this session is suitable for all levels of ventilation knowledge</td>
<td></td>
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</tbody>
</table>

### Session 133 13:00 - 14:00

**Industry Lunchtime Symposium: Neo/adjuvant treatment in resectable NSCLC: optimising patient selection to improve outcomes**

*Organised by AstraZeneca*

**Chairs:** Kostas Syrigos (Athens, Greece)

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<tr>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and introduction</td>
<td>Kostas Syrigos (Athens, Greece)</td>
</tr>
<tr>
<td>13:07</td>
<td>Changing landscape in resectable NSCLC: (neo-)adjuvant therapies introduce new challenges</td>
<td>Cecilia Pompili (Leeds, United Kingdom)</td>
</tr>
<tr>
<td>13:19</td>
<td>Optimising biomarker testing to meet the new needs in resectable NSCLC: how to be rapid and comprehensive</td>
<td>Ignacio I. Wistuba (Houston, United States)</td>
</tr>
<tr>
<td>13:31</td>
<td>Optimising diagnostic work-up utilising advances in endoscopic techniques: robotic bronchoscopy as a tool to improve outcomes</td>
<td>Krish Bhadra (Chattanooga, United States)</td>
</tr>
<tr>
<td>13:46</td>
<td>Panel discussion and live Q&amp;A: What is needed to meet the expectation of tomorrow’s patient?</td>
<td>Kostas Syrigos (Athens, Greece), Cecilia Pompili (Leeds, United Kingdom), Ignacio I. Wistuba (Houston, United States), Krish Bhadra (Chattanooga, United States)</td>
</tr>
</tbody>
</table>

### Session 134 13:00 - 14:00

**Industry Lunchtime Symposium: Importance of Adult Vaccination in the Evolving Pneumococcal Disease Landscape**

*Organised by Pfizer*

**Chairs:** Antoni Torres Marti (Barcelona, Spain)

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and Introduction</td>
<td>Antoni Torres Marti (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:05</td>
<td>Public Health Impact of PCVs on All-Cause Pneumonia</td>
<td>Joe Lewnard (Berkeley, United States)</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<tr>
<td>13:25</td>
<td><strong>Addressing a New Era to Help Protect Against Pneumococcal Disease in Adults</strong></td>
<td>Cristina Mendez (Alcobendas (Madrid), Spain)</td>
</tr>
<tr>
<td>13:45</td>
<td><strong>Live Faculty Discussion and Q&amp;A Session</strong></td>
<td>Antoni Torres Marti (Barcelona, Spain), Joe Lewnard (Berkeley, United States), Cristina Mendez (Alcobendas (Madrid), Spain)</td>
</tr>
<tr>
<td>13:58</td>
<td><strong>Closing Remarks</strong></td>
<td>Antoni Torres Marti (Barcelona, Spain)</td>
</tr>
</tbody>
</table>

**8C - live streamed**  
Session 135  
13:00 - 14:00

**Industry Lunchtime Symposium: COVID-19 and respiratory patients: remaining risks and challenges**  
*Organised by GSK*

**Chairs:** Krystal Evans (Brentford, United Kingdom)

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td><strong>Welcome and introductions</strong></td>
<td>Krystal Evans (Brentford, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td><strong>COVID-19 evolution: where are we now and where are we headed?</strong></td>
<td>Marta Boffito (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>13:20</td>
<td><strong>COVID-19 and the risk to respiratory patients: strategies to optimise management</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
<td></td>
</tr>
<tr>
<td>13:35</td>
<td><strong>Interactive case studies</strong></td>
<td>Krystal Evans (Brentford, United Kingdom), Tobias Welte (Hannover, Germany), Marta Boffito (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>13:45</td>
<td><strong>Panel discussion and Q&amp;A</strong></td>
<td>Krystal Evans (Brentford, United Kingdom), Tobias Welte (Hannover, Germany), Marta Boffito (London, United Kingdom)</td>
<td></td>
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<tr>
<td>13:55</td>
<td><strong>Key takeaways</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
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</table>

**8G - live streamed**  
Session 136  
13:00 - 14:00

**Industry Lunchtime Symposium: Asthma and beyond: anti-IgE continues to play a major role**  
*Organised by Novartis Pharma AG*

**Chairs:** Celeste Michala Porsbjerg (Copenhagen, Denmark)

<table>
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<tr>
<th>Time</th>
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<th>Location(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td><strong>Welcome and Introduction</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>13:05</td>
<td><strong>Why still target IgE pathways in the airways?</strong></td>
<td>Oscar Palomares (Madrid, Spain)</td>
<td></td>
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<tr>
<td>13:20</td>
<td><strong>Why does anti-IgE remain important in the management of severe asthma?</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>13:35</td>
<td><strong>Why look beyond asthma? Anti-IgE in the treatment of co-morbidities</strong></td>
<td>Philippe Gevaert (Ghent, Belgium)</td>
<td></td>
</tr>
<tr>
<td>13:45</td>
<td><strong>Q&amp;A with all speakers</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td></td>
</tr>
<tr>
<td>13:55</td>
<td><strong>Summary and close</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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</table>

**8H - live streamed**  
Session 137  
13:00 - 14:00

**Industry Lunchtime Symposium: Implementing asthma guidelines for better care of patients and planet**  
*Organised by AstraZeneca*

**Chairs:** Eric D. Bateman (Cape Town, South Africa)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Details</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and Introduction</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>13:10</td>
<td>2022 Asthma In Review: a patient perspective</td>
<td>Tonya Winders (Hendersonville, United States)</td>
</tr>
<tr>
<td>13:15</td>
<td>What can we do to address SABA over-reliance?</td>
<td>Ashraf Alzaabi (Abu Dhabi, United Arab Emirates)</td>
</tr>
<tr>
<td>13:25</td>
<td>SENTINEL Project: implementation of a maintenance and reliever treatment algorithm into practice in Hull, UK</td>
<td>Michael Crooks (East Riding of Yorkshire, United Kingdom)</td>
</tr>
<tr>
<td>13:45</td>
<td>Audience Q&amp;A</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>13:55</td>
<td>Meeting close and summary</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
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**8M Session 138 13:00 - 14:00**

Industry Lunchtime Symposium: Re-IMAGinING the pathway for clinical decision making in rare lung diseases – moving towards a united vision

*Organised by CSL Behring GmbH*

**Chairs:** Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Details</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and introduction to the faculty and symposium topics</td>
<td>Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)</td>
</tr>
<tr>
<td>13:05</td>
<td>Pars pro toto ILD: Improving diagnosis and differentiation</td>
<td>Daiana Stolz (Basel, Switzerland), Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>13:15</td>
<td>OSIC: A Renaissance approach to imaging in rare lung diseases</td>
<td>Elizabeth Estes (Holland, United States)</td>
</tr>
<tr>
<td>13:25</td>
<td>Exacerbations in AATD: Impact on lung density</td>
<td>Noel Gerard McElvaney (Dublin, Ireland), Charlie Strange (Charleston, United States)</td>
</tr>
<tr>
<td>13:35</td>
<td>Summary and introduction of the Q&amp;A session</td>
<td>Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)</td>
</tr>
<tr>
<td>13:40</td>
<td>Live Q&amp;A and closing remarks</td>
<td>Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)</td>
</tr>
<tr>
<td>13:00</td>
<td>Re-IMAGinING the pathway for clinical decision making in rare lung diseases – moving towards a united vision</td>
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**8J Session 165 14:00 - 14:45**

Industry Skills Lab Workshop: Life Is Easier With a Hands-on Approach - Get More Confidence and Improve Your Outcomes

*Organised by Olympus Europa SE & Co. KG*

**Chairs:** António Apolinário Bugalho De Almeida (Lisboa, Portugal)

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Details</th>
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<tbody>
<tr>
<td>14:00</td>
<td>EBUS-TBNA: Handling all procedure steps safely and efficiently</td>
<td>António Apolinário Bugalho De Almeida (Lisboa, Portugal)</td>
</tr>
<tr>
<td>14:00</td>
<td>Peripheral Bronchoscopy: Plan, access and identify peripheral lesions for successful sampling</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
</tr>
<tr>
<td>14:00</td>
<td>Emphysema and Air Leak treatment with EVIS X1: Elevating the standard of therapeutic interventions</td>
<td>Matthias Hecker (Giessen, Germany)</td>
</tr>
<tr>
<td>14:00</td>
<td>Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity</td>
<td>Enric Barbeta Sanchez (Barcelona, Spain)</td>
</tr>
</tbody>
</table>
### Industry Skills Lab Workshop: Oral appliance: a rising alternative option for OSA patients in Europe

**Organised by ResMed**

**Chairs:** Christoph Schoebel (Berlin-Mitte, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Exploration of the current reimbursement models in Europe.</td>
</tr>
<tr>
<td>14:15</td>
<td>Outcomes from the ALASKA study related to MAD treatment.</td>
</tr>
<tr>
<td>14:30</td>
<td>How digitalisation of the oral care pathway can aid follow-up and collaboration.</td>
</tr>
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### Industry Virtual Channel Session 198

**Session 198**

**Industry Virtual Symposium: The connected approach: exploring a new era of chronic respiratory disease management with digital inhalers**

**Organised by Teva Pharmaceuticals Europe B.V.**

**Chairs:** Liam G. Heaney (Belfast, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Welcome and opening address</td>
</tr>
<tr>
<td>18:10</td>
<td>How can we break the pattern of poor inhaler use in asthma and COPD?</td>
</tr>
<tr>
<td>18:25</td>
<td>Digital inhalers – a new solution to an old problem?</td>
</tr>
<tr>
<td>18:40</td>
<td>Discussion and audience questions</td>
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### Industry Evening Symposium: Management of Pulmonary Fibrosis: What Now?

**Organised by Boehringer Ingelheim International GmbH**

**Chairs:** Fernando J. Martinez (New York, United States)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Introduction</td>
</tr>
<tr>
<td>18:05</td>
<td>Lessons Learned from Clinical Trials</td>
</tr>
<tr>
<td>18:25</td>
<td>Management Guidelines and Challenges</td>
</tr>
<tr>
<td>18:45</td>
<td>The Future of Research and Clinical Care</td>
</tr>
<tr>
<td>19:05</td>
<td>Q&amp;A</td>
</tr>
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</table>

### Industry Evening Symposium: Remission in Severe Asthma: an achievable treatment goal in the biologics era?

**Organised by AstraZeneca**

**Chairs:** Andrew Menzies-Gow (London, United Kingdom)

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Welcome and Introduction</td>
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ERS International Congress 2022

**INDUSTRY SESSIONS**

**SUNDAY 04 SEPTEMBER, 2022**

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ERS International Congress 2022
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</table>
| 18:10 | Remission in chronic inflammatory diseases: learnings from rheumatoid arthritis  
Josef Smolen (Vienna, Austria) |
| 18:25 | Clinical remission in severe asthma: a potential new treatment goal?  
David Price (Singapore, Singapore) |
| 18:45 | Clinical remission in severe asthma: what does the data tell?  
Andrew Menzies-Gow (London, United Kingdom), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom) |
| 19:10 | Meeting close and Q&A  
Andrew Menzies-Gow (London, United Kingdom) |

**8C - live streamed**  
**Session 201 18:00 - 19:30**  
Industry Evening Symposium: A triple approach to shifting the asthma paradigm: inhaled therapy, digital technology and environment  
*Organised by Novartis Pharma AG*  
**Chairs**: Christine Jenkins (McMahons Point (NSW), Australia)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</table>
| 18:00 | Welcome and Introduction  
Christine Jenkins (McMahons Point (NSW), Australia) |
| 18:05 | Shifting the paradigm with inhaled asthma therapy, including panel discussion  
Richard Van Zyl-Smit (Cape Town, South Africa) |
| 18:35 | Shifting the paradigm with digital health care, including panel discussion  
Christopher Licskai (London (ON), Canada) |
| 19:00 | Shifting the paradigm with environmental approaches, including panel discussion  
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom) |
| 19:25 | Conclusion: Shifting the paradigm with a triple approach to asthma  
Christine Jenkins (McMahons Point (NSW), Australia) |

**8G - live streamed**  
**Session 202 18:00 - 19:30**  
Industry Evening Symposium: Addressing the challenges of the breathless patient: Beyond the obvious  
*Organised by Janssen Pharmaceutica NV*  
**Chairs**: Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</table>
| 18:00 | Welcome and introduction  
Marion Delcroix (Leuven, Belgium) |
| 18:10 | Pitfalls in diagnosing the breathless patient  
Discussion  
Luke Howard (London, United Kingdom), Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland) |
| 18:35 | Why pulmonary hypertension classification can be difficult  
Discussion  
Pilar Escribano-Subias (Madrid, Spain), Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland) |
| 19:00 | My patient is diagnosed with PH. What are the treatment options?  
Silvia Ulrich (Zurich, Switzerland) |
| 19:15 | Q&A with the faculty  
Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland), Pilar Escribano-Subias (Madrid, Spain), Silvia Ulrich (Zurich, Switzerland), Luke Howard (London, United Kingdom) |
| 19:25 | Key messages and closing remarks  
Sean Gaine (Dublin, Ireland) |
### Industry Evening Symposium: How molecular pharmacology is improving patient outcomes in COPD

**Organised by GSK**

**Chairs:** Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Opening and introduction</strong></td>
<td>Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Efficacy by design: from pharmacology to effective therapy</strong></td>
<td>Kai Michael Beeh (Wiesbaden, Germany)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>Are all triple therapies the same? Learning from head-to-head and indirect comparisons</strong></td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>18:45</td>
<td><strong>Real-world evidence on triple therapy: what have we learned?</strong></td>
<td>David M. G. Halpin (Exeter, United Kingdom)</td>
</tr>
<tr>
<td>19:05</td>
<td><strong>Panel discussion and Q&amp;A</strong></td>
<td>Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States), Kai Michael Beeh (Wiesbaden, Germany), Claus Vogelmeier (Marburg, Germany), David M. G. Halpin (Exeter, United Kingdom)</td>
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</tbody>
</table>

### Industry Evening Symposium: Delivering High Value Care for Asthma & COPD

**Organised by Orion Pharma and Menarini Group**

**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain)

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<tbody>
<tr>
<td>18:00</td>
<td><strong>Welcome: Patient-physician relationships and the new normal</strong></td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
</tr>
<tr>
<td>18:10</td>
<td><strong>Empowering patients to become equal partners in their care: Experience from Finland</strong></td>
<td>Tuula Vasankari (Kaarina, Finland)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>How to select the most appropriate inhaler with your patients</strong></td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Avoiding pitfalls in asthma and COPD care</strong></td>
<td>Christer Janson (Uppsala, Sweden)</td>
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<tr>
<td>18:55</td>
<td><strong>The carbon footprint of asthma and COPD care</strong></td>
<td>Lauri Lehtimäki (Tampere, Finland)</td>
</tr>
<tr>
<td>19:10</td>
<td><strong>Q&amp;A and panel discussion</strong></td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain), Tuula Vasankari (Kaarina, Finland), Federico Lavorini (Firenze (FI), Italy), Lauri Lehtimäki (Tampere, Finland)</td>
</tr>
<tr>
<td>19:25</td>
<td><strong>Wrap up and close</strong></td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
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### Industry Evening Mini-Symposium: Dare to challenge the status quo: AATD, bronchiectasis, and new research

**Organised by Grifols**

**Chairs:** Marc Miravitlles (Barcelona (CT), Spain)

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<tr>
<td>18:00</td>
<td><strong>Welcome and introduction</strong></td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Screening for severe Alpha-1 Antitrypsin Deficiency (AATD) and evolving results</strong></td>
<td>Ilaria Ferrarotti (Pavia (PV), Italy)</td>
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</table>
18:25
Real world registry comparison studies on augmentation therapy
When should augmentation therapy be started in severe AATD patients? What parameters are of relevance?
point – counterpoint
Do we need clearly defined starting criteria for augmentation therapy?
Alice Turner (Birmingham (West Midlands), United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

19:00
Hot topic
The protease–antiprotease imbalance in infectious diseases: COVID-19 and Bronchiectasis
Clinical trial results on Alpha-1 Antitrypsin in COVID-19
Oliver McElvaney (, Ireland)

19:20
2022 ALTA awards ceremony
Antonio Paez Regadera (Barcelona, Spain)

19:25
Summary and Close
Marc Miravitlles (Barcelona (CT), Spain)

8L Session 206 18:00 - 19:30
Industry Evening Mini-Symposium: Update: Clinical Adoption in High-Flow Therapy (HFT)
Organised by ResMed
Chairs : Maxime Patout (Paris, France), Adam Benjafield (Sydney, Australia)

18:10 A typical COPD patient using at-home HFT: A case study
Salvador Diaz Lobato (Colmenar Viejo (Madrid), Spain)

18:30 Presenting the results of the UK feasibility study on HFT
Rebecca D'Cruz (London, United Kingdom)

18:50 Innovative digital pathways in chronic care management
Chris Carlin (Glasgow (Glasgow), United Kingdom)

19:10 Danish HFT Guidelines and their implications: An update
Ulla Møller Weinreich (Ålborg, Denmark)

8M Session 207 18:00 - 19:30
Industry Evening Mini-Symposium: Management of non-tuberculous Mycobacterium avium complex pulmonary disease (MAC-PD) – what the future holds
Organised by Insmed Ireland Ltd.
Chairs : Gernot G.U. Rohde (Frankfurt am Main, Germany), Eva Polverino (Barcelona, Spain)

18:00 MAC-PD in Europe – identifying the patient at risk
Eva Polverino (Barcelona, Spain)

18:15 Diagnosis, management and prescribing patterns for MAC-PD in Europe
Charles Haworth (Cambridge, United Kingdom)

18:30 VOTING: Adherence to treatment guidelines among physicians

18:35 Pitfalls and gaps in NTM clinical practice guidelines – how to follow
Claire Andrejak (Amiens, France)

18:50 Treatment options for MAC-PD disease when oral GBT is not successful
Stefano Aliberti (Milano (MI), Italy)

19:05 VOTING: Adherence to treatment among patients

19:10 Panel discussion: Learnings and expectations for the future – the path forward physicians would want to see
Gernot G.U. Rohde (Frankfurt am Main, Germany), Eva Polverino (Barcelona, Spain), Charles Haworth (Cambridge, United Kingdom), Claire Andrejak (Amiens, France), Stefano Aliberti (Milano (MI), Italy)
Industry Virtual Channel  
Session 208  
08:00 - 09:15

Industry Virtual Symposium: The Climate Change as a Risk to Respiratory Health
Organised by Haleon
Chairs : Christopher Carlsten (Vancouver (BC), Canada)

08:00  The challenge of climate change and health: Time to act
Kian Fan Chung (London, United Kingdom)  

08:15  Health Impacts of Air Pollution and Climate Change in Low and Middle Income Countries
Sundeep Santosh Salvi (Pune (Maharashtra), India)  

08:30  Firesmoke and Lung Health: Responses to an Increasing Threat
Christopher Carlsten (Vancouver (BC), Canada)  

08:45  Impact of climate change on pediatric allergies and respiratory disorders
Gary Wong (Shatin, Hong Kong)  

09:00  Q&A with speakers
Kian Fan Chung (London, United Kingdom), Sundeep Santosh Salvi (Pune (Maharashtra), India), Christopher Carlsten (Vancouver (BC), Canada), Gary Wong (Shatin, Hong Kong)  

8A - live streamed  
Session 209  
08:00 - 09:15

Industry Early Morning Symposium: Biomarkers Matter in the Long-term Treatment of Severe Asthma
Organised by Sanofi Regeneron
Chairs : Giorgio Walter Canonica (Milano (MI), Italy)

08:00  Introduction and Opening Remarks
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)  

08:05  From Bench to Bedside: Clinical and Scientific Utility of Biomarkers in Type 2 Asthma
Giorgio Walter Canonica (Milano (MI), Italy)  

08:15  Long-Term Impact of Dupilumab Across Type 2 Asthma Phenotypes
Diego Maselli (San Antonio, United States)  

08:30  Improving Long-Term Outcomes While Reducing OCS Use
Arnaud Bourdin (Montpellier Cedex 5, France)  

08:45  Panel Perspectives: Why Biomarkers Matter
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)  

08:55  Audience Q&A
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)  

09:10  Closing Remarks
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)  

8B - live streamed  
Session 210  
08:00 - 09:15

Industry Early Morning Symposium: Heterogeneity of inflammation in asthma: a matter of airway epithelium?
Organised by AstraZeneca
Chairs : Louis-Philippe Boulet (Québec (QC), Canada), Celeste Michala Porsbjerg (Copenhagen, Denmark), Gianni Marone (Napoli (NA), Italy)

08:00  Welcome, introduction, and opening remarks
Louis-Philippe Boulet (Québec (QC), Canada)  

327  19.08.2022
8C - live streamed  Session 211  08:00 - 09:15

Industry Early Morning Symposium: The Science of COVID 19 mRNA Vaccines: Innovation to Anticipate the Evolving Prevention Paradigm
Organised by Pfizer

08:00 Welcome and introduction
Eva Polverino (Barcelona, Spain)

08:05 A new era of vaccine development
Miguel Prudêncio (Lisbon, Portugal)

08:15 How vaccines can meet the evolving challenges related to COVID-19
Eva Polverino (Barcelona, Spain)

08:45 Approaches to tackle COVID-19: mRNA vaccine and oral treatments
Miguel Prudêncio (Lisbon, Portugal)

08:55 Panel discussion / Q&A
Eva Polverino (Barcelona, Spain), Miguel Prudêncio (Lisbon, Portugal)

09:10 Closing remarks
Eva Polverino (Barcelona, Spain)

8G - live streamed  Session 212  08:00 - 09:15

Industry Early Morning Symposium: Tailoring treatment for uncontrolled asthmatic patients: from theory to practice
Organised by Chiesi Farmaceutici S.p.A.

Chairs : Ana Fernandez Tena (Oviedo (Asturias), Spain), Johann Christian Virchow (Rostock, Germany)

08:00 Aiming for asthma remission and disease modification
Alvaro A. Cruz (Salvador (BA), Brazil)

08:20 Tailoring treatments in moderate to severe asthma: the TAILOR study
Guy Brusselle (Ghent, Belgium)

08:35 Identifying asthma patients who profit from dual and triple therapy
Johann Christian Virchow (Rostock, Germany)

08:55 Q&A
Johann Christian Virchow (Rostock, Germany), Ana Fernandez Tena (Oviedo (Asturias), Spain), Guy Brusselle (Ghent, Belgium), Alvaro A. Cruz (Salvador (BA), Brazil)
### Industry Early Morning Symposium: Redefining asthma goals: the evolving era of proactive control

**Organised by GSK**

**Chairs:** Kenneth R. Chapman (Toronto (ON), Canada)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Organizer</th>
<th>Chair</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Welcome, introductions, meeting objectives</td>
<td>Kenneth R. Chapman</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>08:02</td>
<td>Asthma management and appropriate reliever use: APPaRENT challenges</td>
<td>Kenneth R. Chapman</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>08:17</td>
<td>Evolving data from existing clinical trials: the power of modelling</td>
<td>Dave Singh</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
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<tr>
<td>08:32</td>
<td>MASTERing asthma management: redefining treatment goals</td>
<td>Guy Brusselle</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<tr>
<td>08:47</td>
<td>Summary/conclusion</td>
<td>Kenneth R. Chapman</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>08:50</td>
<td>Real-world results: debating clinical applications of proactive regular dosing</td>
<td>Kenneth R. Chapman, Dave Singh, Guy Brusselle</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada), Dave Singh (Manchester, United Kingdom), Guy Brusselle (Ghent, Belgium)</td>
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<tr>
<td>09:00</td>
<td>Q&amp;A session</td>
<td>Kenneth R. Chapman, Dave Singh, Guy Brusselle</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada), Dave Singh (Manchester, United Kingdom), Guy Brusselle (Ghent, Belgium)</td>
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### Industry Early Morning Mini-Symposium: The vicious vortex of bronchiectasis, tackling the cornerstone of inflammation

**Organised by Insmed Ireland Ltd.**

**Chairs:** Montserrat Vendrell Relat (Girona, Spain)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Introduction and overview</td>
<td>Montserrat Vendrell Relat</td>
<td>Montserrat Vendrell Relat (Girona, Spain)</td>
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<tr>
<td>08:05</td>
<td>NCFBE a consequence of inflammatory dysregulation?</td>
<td>Amelia Shoemark</td>
<td>Amelia Shoemark (Dundee (Angus), United Kingdom)</td>
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</tr>
<tr>
<td>08:20</td>
<td>The biology of NCFBE – exploring the endotypes as treatable traits</td>
<td>Stuart Elborn</td>
<td>Stuart Elborn (Belfast (Belfast), United Kingdom)</td>
<td></td>
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<tr>
<td>08:35</td>
<td>Targeting inflammation, a cornerstone in the vicious vortex of NCFBE</td>
<td>Pieter Goeminne</td>
<td>Pieter Goeminne (Bornem, Belgium)</td>
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<tr>
<td>08:50</td>
<td>Panel discussion</td>
<td>Pieter Goeminne, Montserrat Vendrell Relat, Stuart Elborn, Amelia Shoemark</td>
<td>Pieter Goeminne (Bornem, Belgium), Montserrat Vendrell Relat (Girona, Spain), Stuart Elborn (Belfast (Belfast), United Kingdom), Amelia Shoemark (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>09:10</td>
<td>Summary and close</td>
<td>Montserrat Vendrell Relat</td>
<td>Montserrat Vendrell Relat (Girona, Spain)</td>
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### Industry Skills Lab Workshop: Recent Trial Results for Home Nasal High Flow and COPD

**Organised by FISHER & PAYKEL HEALTHCARE**

**Chairs:** Nicholas Hart (London, United Kingdom), Claudia Crimi (Catania (CT), Italy)

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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Home nasal high flow therapy in COPD patients following a recent hospitalization</td>
<td>Gerard J. Criner</td>
<td>Gerard J. Criner (Philadelphia, United States)</td>
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<tr>
<td>08:18</td>
<td>Safety and effectiveness of domiciliary nasal high flow therapy for stable hypercapnic COPD patients</td>
<td>Kazuma Nagata</td>
<td>Kazuma Nagata (Kobe, Japan)</td>
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</table>
Feasibility of home high-flow therapy after severe exacerbation of COPD: a mixed methods randomised control trial
Rebecca D'Cruz (London, United Kingdom)

Session 216 08:00 - 08:45
Industry Skills Lab Workshop: Peripheral Bronchoscopic biopsy solutions with radial EBUS and navigation planning
Organised by FUJIFILM
Chairs: Rachid Tazi Mezalek (Barcelona, Spain), Felipe Andreo Garcia (Montgat, Spain), Pere Trias Sabria (Barcelona, Spain)

Introduction
Rachid Tazi Mezalek (Barcelona, Spain)

Hands On Session + Q&A

Session 259 10:30 - 11:15
Industry Skills Lab Workshop: ERS/ATS PFT Interpretation Standards - an Artificial Intelligence View
Organised by Vyaire Medical Products Ltd.
Chairs: Sanja Stanojevic (Halifax (NS), Canada), Marko Topalovic (Kessel-lo, Belgium)

PFT Interpretation Standards - an Artificial Intelligence View
Sanja Stanojevic (Halifax (NS), Canada), Marko Topalovic (Kessel-lo, Belgium)

Session 260 10:30 - 11:15
Industry Skills Lab Workshop: Understanding the value of Patient-Reported Outcome Measures (PROM) and Patient Engagement tools in clinical practice.
Organised by ResMed
Chairs: Joan Escarrabill Sanglas (Barcelona, Spain), Kimberly L. Sterling (Indianapolis, United States)

Introduction to PROM and Patient-Reported Experience Measures (PREM)
Joan Escarrabill Sanglas (Barcelona, Spain)

The influence of patient engagement tools and PROM on PAP treatment adherence in obstructive sleep apnoea patients
Jean-Louis Pépin (Grenoble, France)

A demonstration of ResMed's AirSense 11 patient feedback tool, Care Check-In, integrated with myAir and AirView
Clémence Dini (Lyon, France)

Industry Virtual Channel Session 285 13:00 - 14:00
Industry Virtual Symposium: Advancing care in alpha-1 antitrypsin deficiency: Working towards meeting holistic patient needs
Organised by Takeda Pharmaceuticals International GmbH
Chairs: Marc Miravitlles (Barcelona (CT), Spain)

Introduction from the Chair: AATD disease background and EARCO Registry data
Marc Miravitlles (Barcelona (CT), Spain)

ARALAST® NP (RYMPHYSIA®) [Alpha-1 Proteinase Inhibitor (Human)] Clinical Efficacy Study: Advancing research in patients with AATD
Jason Homsy (Cambridge, United States)

Working towards holistic management of AATD: A lung and liver disease
Virginia Clark (Gainesville, United States)

A patient's vision for the future of care in AATD. Can we get there, and how?
Frank Willersinn (Bruxelles, Belgium)
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<tr>
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<tbody>
<tr>
<td>13:40</td>
<td>Panel discussion: Moving forward together: Priorities for the advancement of care in AATD</td>
<td>Marc Miravitlles (Barcelona (CT), Spain), Jason Homsy (Cambridge, United States), Virginia Clark (Gainesville, United States), Frank Willersinn (Bruxelles, Belgium)</td>
</tr>
<tr>
<td>13:55</td>
<td>Summary and close</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
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### 8A - live streamed  
**Session 287  13:00 - 14:00**

**Industry Lunchtime Symposium: COPD management today: Made-to-measure or one-size-fits-all?**

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:** Sarah Jarvis (London, United Kingdom)

- **Starting on the right path: How can I optimise treatment initiation in my patient?**  
  Sarah Jarvis (London, United Kingdom), Peter J. Barnes (London, United Kingdom), John R Hurst (London, United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

- **The final fitting: Is this inhaler right for my patient?**  
  Sarah Jarvis (London, United Kingdom), Peter J. Barnes (London, United Kingdom), John R Hurst (London, United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

- **Q&A and closing comments**  
  Sarah Jarvis (London, United Kingdom), Peter J. Barnes (London, United Kingdom), John R Hurst (London, United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

### 8B - live streamed  
**Session 288  13:00 - 14:00**

**Industry Lunchtime Symposium: Time to raise standards of care for patients with COPD**

*Organised by AstraZeneca*

**Chairs:** Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Mona Bafadhel (London, United Kingdom)

- **Welcome, introduction, and opening remarks**  
  Mona Bafadhel (London, United Kingdom), Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain)

- **Time to change: challenging the status quo of COPD management**  
  Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain)

- **Time to act: prompt identification of patients with COPD and their underlying risk**  
  Mona Bafadhel (London, United Kingdom)

- **Time to treat: earlier intervention to prevent exacerbations and reduce the risk of mortality**  
  Dave Singh (Manchester, United Kingdom)

- **Time to CONQUER COPD: ensuring quality standards in patient care**  
  David Price (Singapore, Singapore), Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Mona Bafadhel (London, United Kingdom), Dave Singh (Manchester, United Kingdom)

- **Summary and close**  
  Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain)

### 8C - live streamed  
**Session 289  13:00 - 14:00**

**Industry Lunchtime Symposium: A unified approach: improving patient outcomes in severe asthma and comorbid eosinophilic diseases**

*Organised by GSK*

**Chairs:** Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain)

- **Welcome and introduction**  
  Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain)

- **Joining forces: combating eosinophilic disease progression across the unified airway**  
  Christian Domingo Ribas (Sabadell (Barcelona), Spain), Martin Wagenmann (Düsseldorf, Germany)

- **Managing real-world patients: putting the pieces together**  
  Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain), Martin Wagenmann (Düsseldorf, Germany), Christian Domingo Ribas (Sabadell (Barcelona), Spain)
### Session 290 13:00 - 14:00
**Industry Lunchtime Symposium: Take a Deep Breath: The Evolving Role of Biologics in Pediatric Severe Asthma**

**Organised by Sanofi Regeneron**

**13:00**
**Inhale: Understanding the True Burden of Pediatric Severe Asthma and Underlying Type 2 Inflammation**
Eckard Hamelmann (Bielefeld, Germany)

**13:25**
**Exhale: Can Biologics Meet the Clinical Needs of Pediatric Asthma Patients?**
Leonard Bacharier (Nashville, United States)

**13:50**
**Panel Discussion and Q&A**
Eckard Hamelmann (Bielefeld, Germany), Leonard Bacharier (Nashville, United States)

### Session 291 13:00 - 14:00
**Industry Lunchtime Symposium: Recovering the "Lost Art" of Breathing in COPD and Asthma**

**Organised by Menarini group**

**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain)

**13:00**
**Introduction**
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

**13:05**
**Symptoms and Exacerbations: two sides of the same coin**
Claus Vogelmeier (Marburg, Germany)

**13:20**
**Time matters: The opportunity to reduce mortality in COPD**
David M. G. Halpin (Exeter, United Kingdom)

**13:35**
**Ensuring effectiveness through a simplified treatment approach in an Asthma complex world**
Fulvio Braido (Genova, Italy)

**13:50**
**Open discussion**
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

### Session 292 13:00 - 14:00
**Industry Lunchtime Symposium: Global Access to Spirometry Project (GASP): a pathway to asthma and COPD management in Low- and Middle-Income Countries**

**Organised by Chiesi Farmaceutici S.p.A.**

**Chairs:** Mario Scuri (Milano, Italy)

**13:00**
**Chiesi's commitment to respiratory care beyond R&D**
Thomas Eichholtz (Utrecht, Netherlands)

**13:05**
**The Chiesi Foundation: a strategic tool for social change. Resources, expertise, and networking for improving the quality of life of patients and their families living in Low-and Middle-Income Countries (LMICs)**
Maria Paola Chiesi (Parma (PR), Italy)

**13:10**
**GASP Guyana - Implementing an impactful strategy for asthma management in LMICs: from acute episodic care to sustainable chronic disease management.**
Robert D. Levy (Vancouver (BC), Canada)

**13:30**
**GASP Peru - Addressing the burden of COPD: improving access to accurate diagnosis, chronic disease management, patient education, and awareness**
Juan Carlos Rojas Marroquin (, Peru)

**13:45**
**GASP key benefits and lessons learned**
Robert D. Levy (Vancouver (BC), Canada)
### 8J - Session 319
**14:00 - 14:45**

**Industry Skills Lab Workshop: Efficient OSA management with the DreamStation 2 sleep therapy solution**  
*Organised by Philips*

**Chairs:** Cheryl Needham (Wexford, United States)

- **14:00**  
  **DreamStation 2 sleep therapy solution**  
  Thomas Catalano (Monroeville, United States)

### 8K - Session 320
**14:00 - 14:45**

**Industry Skills Lab Workshop: Implementing a digital sleep apnoea pathway in clinical practice**  
*Organised by ResMed*

**Chairs:** Ulla Anttalainen (Paimio, Finland), Chris Carlin (Glasgow, United Kingdom)

- **14:00**  
  **Implementing a digital diagnostic pathway in clinical practice**  
  Laurien Teunissen

- **14:20**  
  **Case study of an out-of-hospital virtual CPAP pathway in clinical practice**  
  David Jones

### Industry Virtual Channel - Session 354
**18:00 - 19:30**

**Industry Virtual Symposium: Managing hospitalised patients with COVID-19 in the post-vaccination era: The role of antivirals**  
*Organised by Gilead Sciences Europe Ltd*

**Chairs:** Tobias Welte (Hannover, Germany)

- **18:00**  
  **Managing hospitalised patients with COVID-19 in the post-vaccination era: The role of antivirals**  
  Tobias Welte (Hannover, Germany)

### Industry Evening Symposium: New strategies to manage intermediate-risk patients with PAH by advancing Oral Prostacyclin treatment
*Organised by Ferrer*

**Chairs:** R James White (Rochester, United States)

- **18:00**  
  **Introduction**  
  R James White (Rochester, United States)

- **18:05**  
  **Is there a dose-response effect with oral Treprostinil?**  
  Carmine Dario Vizza (Roma (RM), Italy), R James White (Rochester, United States)

- **18:30**  
  **What is the new clinical evidence with oral Treprostinil after FREEDOM-EV trial?**  
  Joanna Pepke-Zaba (Cambridge, United Kingdom), Sandeep Sahay (Houston, United States)

- **18:55**  
  **Round table discussion. Oral treatment combinations in intermediate-risk PAH patients: The place for oral Treprostinil?**  
  Carmine Dario Vizza (Roma (RM), Italy), Joanna Pepke-Zaba (Cambridge, United Kingdom), Sandeep Sahay (Houston, United States), Marius M. Hoeper (Hannover, Germany), R James White (Rochester, United States)

- **19:25**  
  **Closing remarks**  
  R James White (Rochester, United States)

### Industry Evening Symposium: Consulting the ORACLE: moving towards a predict and prevent model to raise ambition for patients with severe asthma
*Organised by GSK*

**Chairs:** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)
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<th>Speaker(s)</th>
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<tr>
<td>18:00</td>
<td>Welcome and introduction</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
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<td>3008</td>
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<tr>
<td>18:10</td>
<td>How it all began: demonstrating consistent efficacy of Nucala in RCT and RWE data</td>
<td>Andrea Matucci (Florence, Italy)</td>
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<tr>
<td>18:20</td>
<td>Clinical Remission: defining more ambitious endpoints for patients with severe asthma</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
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<tr>
<td>18:30</td>
<td>Achieving clinical remission through real-world data</td>
<td>Geoffrey Chupp (New Haven, United States)</td>
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<tr>
<td>18:45</td>
<td>Predict and prevent: utilising the ORACLE</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
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<tr>
<td>19:00</td>
<td>Panel and audience discussion</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Andrea Matucci (Florence, Italy), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Geoffrey Chupp (New Haven, United States)</td>
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### 8C - live streamed  
**Session 357  18:00 - 19:30**

**Industry Evening Symposium: Introducing Dupilumab for the Treatment of Uncontrolled Pediatric Asthma**  
*Organised by Sanofi Regeneron*  
**Chairs:** Leonard Bacharier (Nashville, United States)

<table>
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<tbody>
<tr>
<td>18:00</td>
<td>Opening Remarks</td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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<tr>
<td>18:05</td>
<td>Paediatric Asthma: An Ongoing Global Epidemic</td>
<td>Jonathan Corren (Los Angeles, United States)</td>
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<tr>
<td>18:15</td>
<td>Expert Commentary: Burden of Disease Extends Through Adulthood</td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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<tr>
<td>18:25</td>
<td>The Link Between Type 2 Inflammation and Uncontrolled Paediatric Asthma</td>
<td>Jonathan Corren (Los Angeles, United States)</td>
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<td>18:35</td>
<td>Patient Case: Clinical Experience With Dupilumab</td>
<td>Leonard Bacharier (Nashville, United States)</td>
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<tr>
<td>18:45</td>
<td>Relieving the Burden on Children: Dupilumab Improves Asthma Outcomes</td>
<td>Leonard Bacharier (Nashville, United States)</td>
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<tr>
<td>19:00</td>
<td>Expert Commentary: Real-World Use of Dupilumab</td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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<td>19:10</td>
<td>Audience Q&amp;A</td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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<tr>
<td>19:25</td>
<td>Closing Remarks</td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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### 8G - live streamed  
**Session 358  18:00 - 19:30**

**Industry Evening Symposium: Proactive risk management: a novel approach to embedding OCS Stewardship into asthma care**  
*Organised by AstraZeneca*  
**Chairs:** David Price (Singapore, Singapore)

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<tr>
<td>18:00</td>
<td>Welcome and introduction</td>
<td>David Price (Singapore, Singapore)</td>
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<td>3023</td>
</tr>
<tr>
<td>18:05</td>
<td>OCS Stewardship: where we are now?</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
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<tr>
<td>18:20</td>
<td>Assessing the impact of OCS use: moving beyond exposure</td>
<td>Liam G. Heaney (Belfast (Belfast), United Kingdom)</td>
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<td>3025</td>
</tr>
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8H - live streamed  
Session 359  18:00 - 19:30

Industry Evening Symposium: Asthma and COPD disease management: learning from the past, evaluating the present and looking to the future
Organised by Teva Pharmaceuticals Europe B.V.

Chairs: Peter J. Barnes (London, United Kingdom)

18:00 Welcome and opening address  
Peter J. Barnes (London, United Kingdom)

18:10 Different decade, same problem – managing asthma and COPD in the 2020s  
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

18:25 Controller therapies – why are we still facing the same challenges?  
Johann Christian Virchow (Rostock, Germany)

18:40 Looking to the future – how could digital inhalers revolutionise the management of chronic respiratory diseases?  
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

18:55 Panel discussion: Working together to achieve more connected care  
Peter J. Barnes (London, United Kingdom)

19:05 Discussion and audience questions  
Peter J. Barnes (London, United Kingdom)

8N  
Session 360  18:00 - 19:30

Industry Evening Symposium: Picturing the human being behind the patient: the latest COPD challenge
Organised by Menarini Group

Chairs: Claudio Micheletto (S.Giovanni Lupatoto, Italy)

18:00 COPD 2022: new opportunities to take, old enemies to face  
Claudio Micheletto (S.Giovanni Lupatoto, Italy)

18:10 Back to basics: symptoms control as the basis for the management of COPD patients  
Konstantinos Kostikas (Ioannina, Greece)

18:40 Communicating with Patients: our Duty  
Jutta Beier (Wiesbaden, Germany)

19:00 Closing remarks  
Claudio Micheletto (S.Giovanni Lupatoto, Italy)

19:20 Q&A  
Claudio Micheletto (S.Giovanni Lupatoto, Italy)

8F  
Session 361  18:00 - 19:30

Industry Evening Mini-Symposium: Choices in Asthma and COPD Care: How to Maximize Outcomes for Patients
Organised by Orion Pharma

Chairs: Eric D. Bateman (Cape Town, South Africa), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)
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<tr>
<td>18:00</td>
<td>Welcome</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td></td>
<td>Preventing or treating symptoms in asthma –which is better for your patient?</td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
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<tr>
<td>18:20</td>
<td>Good treatment outcomes in COPD: What does it take?</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>18:35</td>
<td>Inhaler types: What’s the difference for your patients?</td>
<td>Charlotte Suppli Ulrik (Virum, Denmark)</td>
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<tr>
<td>18:50</td>
<td>Sustainable asthma and COPD care</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
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<tr>
<td>19:05</td>
<td>Sustainable asthma and COPD care</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>19:25</td>
<td>Panel discussion</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
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<td><strong>8L</strong></td>
<td><strong>Session 362</strong></td>
<td><strong>18:00 - 19:30</strong></td>
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<tr>
<td></td>
<td><strong>Industry Evening Mini-Symposium: Clinical and Cost Effectiveness of Autotitrating NIV for Obesity Hypoventilation Syndrome: Rise of the Machines</strong></td>
<td><strong>Organised by Philips</strong></td>
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<td><strong>Chairs:</strong> Michael Polkey (London, United Kingdom)</td>
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<tr>
<td>18:00</td>
<td>Introduction</td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<tr>
<td>18:05</td>
<td>Trial PICO and clinical implications</td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<tr>
<td>18:40</td>
<td>Trial PICO and clinical implications</td>
<td>Maxime Patout (Paris, France)</td>
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<td>19:15</td>
<td>Q&amp;A</td>
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<td><strong>8M</strong></td>
<td><strong>Session 363</strong></td>
<td><strong>18:00 - 19:30</strong></td>
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<tr>
<td></td>
<td><strong>Industry Evening Symposium: IPF and COPD: close siblings or distant cousins?</strong></td>
<td><strong>Organised by F. Hoffmann-La Roche Ltd.</strong></td>
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<td></td>
<td><strong>Chairs:</strong> Maria Molina Molina (Barcelona, Spain)</td>
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<tr>
<td>18:00</td>
<td>Opening remarks</td>
<td>Maria Molina Molina (Barcelona, Spain)</td>
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<tr>
<td>18:05</td>
<td>Debate: IPF and COPD are distant cousins</td>
<td>Katerina Antoniou (Heraklion, Greece)</td>
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</tr>
<tr>
<td>18:17</td>
<td>Debate: IPF and COPD are close siblings</td>
<td>Venerino Poletti (Forli, Italy)</td>
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<tr>
<td>18:29</td>
<td>Rebuttal</td>
<td>Venerino Poletti (Forli, Italy), Katerina Antoniou (Heraklion, Greece)</td>
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</tr>
<tr>
<td>18:35</td>
<td>COPD - new treatment approaches</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
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<tr>
<td>18:55</td>
<td>IPF - new treatment approaches</td>
<td>Luca Richeldi (Roma, Italy)</td>
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<tr>
<td>19:15</td>
<td>Q&amp;A</td>
<td>Maria Molina Molina (Barcelona, Spain), Katerina Antoniou (Heraklion, Greece), Venerino Poletti (Forli, Italy), Claus Vogelmeier (Marburg, Germany), Luca Richeldi (Roma, Italy)</td>
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</tbody>
</table>
### Industry Virtual Channel  
**Session 365**  
08:00 - 09:15  

**Industry Virtual Symposium: Childhood ILD (chILD): addressing the challenges**  
*Organised by Boehringer Ingelheim International GmbH*  

**Chairs:** Matthias Griese (München, Germany)  

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker/Location</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Introduction</td>
<td>Matthias Griese (München, Germany)</td>
<td>3058</td>
</tr>
<tr>
<td>08:05</td>
<td>chILD: what do we know?</td>
<td>Nicolaus Schwerk (Hannover, Germany)</td>
<td>3059</td>
</tr>
<tr>
<td>08:20</td>
<td>Challenges in the management of chILD</td>
<td>Lisa Young (Philadelphia, United States)</td>
<td>3060</td>
</tr>
<tr>
<td>08:35</td>
<td>InPedILD trial of nintedanib in chILD</td>
<td>Robin Deterding (Aurora, United States)</td>
<td>3061</td>
</tr>
<tr>
<td>08:55</td>
<td>Panel discussion</td>
<td>Matthias Griese (München, Germany)</td>
<td>3062</td>
</tr>
</tbody>
</table>

**8A - live streamed**  
**Session 366**  
08:00 - 09:15  

**Industry Early Morning Symposium: What role will antivirals play in treating COVID-19 this winter and beyond?**  
*Organised by Shionogi*  

**Chairs:** Andreas Johannis Karas (Ascot, United Kingdom)  

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker/Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Welcome &amp; Introduction</td>
<td>Andreas Johannis Karas (Ascot, United Kingdom)</td>
<td>3063</td>
</tr>
<tr>
<td>08:05</td>
<td>What do we expect to see from COVID-19 this winter and into 2023?</td>
<td>Santiago Moreno (Madrid, Spain)</td>
<td>3064</td>
</tr>
<tr>
<td>08:30</td>
<td>How are antivirals best utilised to minimise the impact of COVID-19 this winter?</td>
<td>Yohei Doi (Toyoake, Japan)</td>
<td>3065</td>
</tr>
<tr>
<td>08:55</td>
<td>Chair led panel discussion</td>
<td>Andreas Johannis Karas (Ascot, United Kingdom)</td>
<td>3066</td>
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</tbody>
</table>

**8B - live streamed**  
**Session 367**  
08:00 - 09:15  

**Industry Early Morning Symposium: Clinical Improvement as Endpoint in PAH**  
*Organised by MSD*  

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France)  

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker/Location</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Welcome and Opening Lecture: Prognostic value of Improvement endpoints in Pulmonary Arterial Hypertension</td>
<td>Marius M. Hoeper (Hannover, Germany)</td>
<td>3067</td>
</tr>
<tr>
<td>08:20</td>
<td>Multicomponent Improvement Endpoint Thresholds in Past and Current PAH Clinical Trials</td>
<td>Stephan Rosenkranz (Köln, Germany)</td>
<td>3068</td>
</tr>
<tr>
<td>08:30</td>
<td>Multicomponent Clinical Improvement vs. Clinical Worsening endpoints: PROs &amp; CONs</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
<td>3069</td>
</tr>
<tr>
<td>08:45</td>
<td>Round Table Q&amp;A/discussion</td>
<td>Moderated by: Olivier Sitbon</td>
<td>3070</td>
</tr>
<tr>
<td>09:10</td>
<td>Summary and Close</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
<td>3071</td>
</tr>
</tbody>
</table>
Industry Early Morning Symposium: Your chronic respiratory disease patients – What do you know about their risk of infectious disease?

Organised by GSK

Chairs: Javier Díez Domingo (Valencia, Spain)

08:00 Welcome and introduction
Javier Díez Domingo (Valencia, Spain) 3077

08:10 The shadow of pertussis in chronic respiratory disease
Giovanni Gabutti (LAVAGNA, Italy) 3078

08:23 Shingles: understanding the risk and evolving prevention strategies
Tobias Welte (Hannover, Germany) 3079

08:36 Vaccination of respiratory diseases patients – how can we increase the coverage?
Rosario Menendez Villanueva (Valencia, Spain) 3080

08:49 Panel discussion
Javier Díez Domingo (Valencia, Spain), Tobias Welte (Hannover, Germany), Rosario Menendez Villanueva (Valencia, Spain), Giovanni Gabutti (LAVAGNA, Italy) 3081

09:09 Summary and closure
Javier Díez Domingo (Valencia, Spain) 3082

Industry Early Morning Symposium: Keeping It Simple: Providing Precision Medicine to Adults With Severe Asthma

Organised by Sanofi Regeneron

08:00 Predicting the Response: Using Type 2 Biomarkers to Navigate the Biologic Landscape in Adults With Severe Asthma
Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy) 3083

Enrico Marco Heffler (Milano, Italy) 3084

08:30 The Road Ahead: Plotting the Course for Maintaining Long-Term Improvements in Adults With Severe Asthma
Andrew Menzies-Gow (London, United Kingdom), Oscar Palomares (Madrid, Spain) 3085

09:00 Panel Discussion
Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy), Andrew Menzies-Gow (London, United Kingdom) 3086

09:10 Q&A
Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy), Andrew Menzies-Gow (London, United Kingdom) 3087

Industry Early Morning Mini-Symposium: Tackling pulmonary disease in children and adults with cystic fibrosis: Has the paradigm shifted?

Organised by Vertex Pharmaceuticals (Europe) Limited

08:00 Introductory animation
Silvia Gartner (Barcelona, Spain) 3088

08:02 Chair’s intro: A changing landscape in cystic fibrosis (CF)
Silvia Gartner (Barcelona, Spain) 3089

08:12 The importance of preserving CF lung function and structure from early ages
Marcus Mall (Berlin, Germany) 3090
### Industry Skills Lab Workshop: Eucapnic Voluntary Hyperpnea (EVH) Provocation Test: A practical guide to using EVH challenges to diagnose Exercise Induced Bronchoconstriction.

**Organised by** GANSHORN Medizin Electronic GmbH  
**Chairs:** John Dickinson (Canterbury, United Kingdom)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Introduction by chairman</td>
<td>Laurent Morin</td>
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<tr>
<td>08:02</td>
<td>Simeox technology</td>
<td>Florence Danet</td>
</tr>
<tr>
<td>08:06</td>
<td>Why Airway Clearance is important</td>
<td>João Winck</td>
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<tr>
<td>08:15</td>
<td>Results of Simeox Homecare Bronchiectasis trial</td>
<td>Sylvie Leroy</td>
</tr>
<tr>
<td>08:25</td>
<td>Questions &amp; Answers</td>
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<tr>
<td>08:30</td>
<td>Simeox hands-on</td>
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### Industry Skills Lab Workshop: A New Era in Distal Mucus Management

**Organised by** PhysioAssist  
**Chairs:** Laurent Morin (Aix-en-Provence, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Welcome</td>
<td>Roald van der Laan (Huijbergen, Netherlands)</td>
</tr>
<tr>
<td>10:35</td>
<td>Introduction</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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<tr>
<td>10:40</td>
<td>Overview of ARIKAYCE liposomal® and demonstration of its use</td>
<td>Roald van der Laan (Huijbergen, Netherlands)</td>
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<tr>
<td>10:50</td>
<td>A practical guide to ensuring a successful early-user experience</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
</tr>
<tr>
<td>11:05</td>
<td>Summary and close</td>
<td>Roald van der Laan (Huijbergen, Netherlands)</td>
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</tbody>
</table>
### Industry Skills Lab Workshop: Lung Cancer Diagnostic Pathway: CT with AI analysis to Bronchoscopic Diagnosis
Organised by Fujifilm

**Chairs:** Khalid Tazi Sidqui (Casablanca, Morocco), Felipe Andreo Garcia (Montgat, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Introduction</td>
<td>Khalid Tazi Sidqui (Casablanca, Morocco)</td>
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</tbody>
</table>

### Session 444
13:00 - 14:00 Industry Lunchtime Symposium: Evolving concepts in the treatment of nosocomial pneumonia
Organised by MSD

**Chairs:** Despoina Koulenti (Brisbane, Australia), Tobias Welte (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and opening remarks</td>
<td>Tobias Welte (Hannover, Germany), Despoina Koulenti (Brisbane, Australia)</td>
</tr>
<tr>
<td>13:04</td>
<td>What's new since the last guideline publication?</td>
<td>Antoni Torres Marti (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:22</td>
<td>What has real-world evidence taught us?</td>
<td>Ignacio Martin-Loeches (Dublin, Ireland)</td>
</tr>
<tr>
<td>13:40</td>
<td>Panel Discussion</td>
<td>Tobias Welte (Hannover, Germany), Despoina Koulenti (Brisbane, Australia), Ignacio Martin-Loeches (Dublin, Ireland), Antoni Torres Marti (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:56</td>
<td>Closing Remarks</td>
<td>Despoina Koulenti (Brisbane, Australia), Tobias Welte (Hannover, Germany)</td>
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</table>

### Session 445
13:00 - 14:00 Industry Lunchtime Symposium: Going FURTHER: from surviving to thriving on the asthma patient journey
Organised by GSK

**Chairs:** Rob Cook (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and opening</td>
<td>Rob Cook (London, United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Living with asthma: the patient perspective</td>
<td>Olivia Fulton (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>13:15</td>
<td>Health literacy for better patient outcomes: fostering simple and trustful communication in respiratory healthcare</td>
<td>Nicole Hass (Villagarcia de Arosa/ Pontevedra, Spain)</td>
</tr>
<tr>
<td>13:25</td>
<td>Improving patient care and outcomes through shared decision-making: the role of motivational communication</td>
<td>Kim Lavoie (Montréal (QC), Canada)</td>
</tr>
<tr>
<td>13:35</td>
<td>Live Q&amp;A</td>
<td>Rob Cook (London, United Kingdom), Nicole Hass (Villagarcia de Arosa/ Pontevedra, Spain), Olivia Fulton (Edinburgh (Edinburgh), United Kingdom), Kim Lavoie (Montréal (QC), Canada)</td>
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</table>

### Session 446
13:00 - 14:00 Industry Lunchtime Symposium: NOVELTY study: Why it is novel, and why it is needed
Organised by AstraZeneca

**Chairs:** Helen Reddel (Sydney, Australia), Alberto Papi (Cona, Ferrara, Italy), Hana Müllerová (Cambridge, United Kingdom)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:00</td>
<td>The importance of the NOVELTY study population</td>
<td>Helen Reddel (Sydney, Australia)</td>
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<tr>
<td>Time</td>
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<tr>
<td>13:15</td>
<td>Treatable traits associated with physician-assigned diagnoses and physician-assessed severities</td>
<td>Rosa Faner Canet (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:30</td>
<td>Patterns of ventilatory dysfunction across physician-assigned diagnoses and severities of asthma /COPD: ADPro xenon MRI and lung physiology substudy</td>
<td>James M. Wild (Sheffield (South Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>13:45</td>
<td>The future for NOVELTY</td>
<td>Alberto Papi (Cona, Ferrara, Italy)</td>
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<tr>
<td>13:55</td>
<td>Meeting close</td>
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**8G - live streamed Session 447 13:00 - 14:00**

**Industry Lunchtime Symposium: Management of Pulmonary Hypertension associated with ILD: Present and Future**

*Organised by Ferrer*

*Chairs: Vincent Cottin (Lyon, France)*

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<th>Time</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Introduction</td>
<td>Vincent Cottin (Lyon, France)</td>
<td>3821</td>
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<tr>
<td>13:05</td>
<td>Burden of Disease and unmet needs: screening and early referral relevance</td>
<td>Juergen Behr (München, Germany)</td>
<td>3822</td>
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<tr>
<td>13:20</td>
<td>The landmark INCREASE study</td>
<td>Steven D Nathan (Falls Church, United States)</td>
<td>3823</td>
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<tr>
<td>13:45</td>
<td>Round table discussion: Screening of PH in ILD patients: most useful tools and ideal process</td>
<td>Juergen Behr (München, Germany), Steven D Nathan (Falls Church, United States), Vincent Cottin (Lyon, France)</td>
<td>3824</td>
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**8H - live streamed Session 448 13:00 - 14:00**

**Industry Lunchtime Symposium: Can we do more for our COPD patients? New frontiers in clinical care**

*Organised by Chiesi Farmaceutici S.p.A.*

*Chairs: Leonardo Michele Fabbri (Modena, Italy)*

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<tr>
<th>Time</th>
<th>Session Title</th>
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<th>Location</th>
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<tbody>
<tr>
<td>13:00</td>
<td>New roads towards COPD prevention, earlier diagnosis and treatment</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
<td>3825</td>
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<tr>
<td>13:15</td>
<td>An identity card to effectively detect a COPD exacerbation: The Rome proposal</td>
<td>Leonardo Michele Fabbri (Modena, Italy)</td>
<td>3826</td>
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<td>13:30</td>
<td>Patients and inhalers: navigating the options to ensure the most suitable match</td>
<td>Kai Michael Beeh (Wiesbaden, Germany)</td>
<td>3827</td>
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<tr>
<td>13:45</td>
<td>Q&amp;A</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain), Leonardo Michele Fabbri (Modena, Italy), Kai Michael Beeh (Wiesbaden, Germany)</td>
<td>3828</td>
</tr>
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**8M Session 449 13:00 - 14:00**

**Industry Lunchtime Symposium: Diagnosis of Incidental CT findings: Insights on guidelines, tools and various approaches – Building on EBUS-TBNA and advancing to peripheral bronchoscopy?**

*Organised by Olympus Europa SE & Co. KG*

*Chairs: Felix J.F. Herth (Heidelberg, Germany)*

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<tr>
<td>13:00</td>
<td>Introduction to incidental CT findings and recommendations from guidelines</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>3829</td>
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<tr>
<td>13:10</td>
<td>Which tools do we already have for diagnosis?</td>
<td>Samy Lachkar (Rouen, France)</td>
<td>3830</td>
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<td>13:20</td>
<td>What we get next?</td>
<td>Juliana Guarize (Milano (MI), Italy)</td>
<td>3831</td>
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<tr>
<td>13:30</td>
<td>Interactive case discussion</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Samy Lachkar (Rouen, France), Juliana Guarize (Milano (MI), Italy)</td>
<td>3832</td>
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<tr>
<td>13:40</td>
<td>Tools to use in selecting the right patients with Severe Emphysema that would benefit most from The Zephyr Valve. Assess. Target. Treat.</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
<td>4326</td>
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<tr>
<td>13:50</td>
<td>The How-To on The Zephyr Valve treatment to ensure the expected outcomes. Target. Treat.</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
<td>4327</td>
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<td>14:00</td>
<td>Practical Hands-On Session with guidance from experienced users</td>
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<td>14:00</td>
<td>Fotios Sampsonas (Patra, Greece)</td>
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<tr>
<td>18:00</td>
<td>Opening Remarks</td>
<td>Christian Domingo Ribas (Sabadell (Barcelona), Spain)</td>
<td>4478</td>
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<tr>
<td>18:10</td>
<td>Mechanisms of Cough – What do we need to know to understand our patients?</td>
<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)</td>
<td>4479</td>
</tr>
<tr>
<td>18:30</td>
<td>A patient case of chronic cough; what do the ERS guidelines say?</td>
<td>Alyn Hugh Morice (Cottingham, United Kingdom)</td>
<td>4480</td>
</tr>
<tr>
<td>18:50</td>
<td>A patient case of chronic cough; learnings from a recent Canadian consensus</td>
<td>Imran Satia (Hamilton, Canada)</td>
<td>4481</td>
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<tr>
<td>19:10</td>
<td>Q&amp;A and panel discussion</td>
<td>Christian Domingo Ribas (Sabadell (Barcelona), Spain)</td>
<td>4482</td>
</tr>
<tr>
<td>18:00</td>
<td>Welcome and Introductions</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
<td>4483</td>
</tr>
<tr>
<td>18:05</td>
<td>A GETomics Perspective of COPD: What Is It?</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
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### Changing Treatment Paradigms: The Evolving Biologic Landscape in COPD
Dave Singh (Manchester, United Kingdom)

### Panel Discussion
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### Audience Q&A
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Stephanie Christenson (San Francisco, United States), MeiLan K. Han (Ann Arbor, United States), Dave Singh (Manchester, United Kingdom)

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### Industry Evening Symposium: Non-Cystic Fibrosis Bronchiectasis: Don’t Neglect Neutrophilic Inflammation
Organised by Insmed

#### Chairs:
Eva Polverino (Barcelona, Spain)

### Welcome and Introductions
Eva Polverino (Barcelona, Spain)

### Current State of Affairs in NCFBE
Eva Polverino (Barcelona, Spain), Stefano Aliberti (Milano (MI), Italy), Holly R. Keir (Dundee (Angus), United Kingdom)

### Refocus on Immunity and Neutrophils in NCFBE
Holly R. Keir (Dundee (Angus), United Kingdom)

### Panel discussion and Audience Q&A
Eva Polverino (Barcelona, Spain), Stefano Aliberti (Milano (MI), Italy), Holly R. Keir (Dundee (Angus), United Kingdom)

### Emerging Treatments for NCFBE
Stefano Aliberti (Milano (MI), Italy)

### The Future of NCFBE Management
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