

## Pre-congress content Session 00:00 - 23:59

## Year in review: Paediatric year in review

**Aims :** To provide an update on four topics in paediatric respiratory medicine, namely, new developments in childhood interstitial lung diseases, COVID infections in children, paediatric sleep disordered breathing and the epidemiology of asthma; to highlight the most recent and significant literature and developments relating to these topics.

**Disease(s) :** Interstitial lung diseases Paediatric respiratory diseases Respiratory infections

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

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

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

00:00 **What's new in interstitial lung diseases in children?**  
Steve Cunningham (Edinburgh (Scotland), United Kingdom)

00:15 **Paediatric respiratory infections: COVID-19 in children**  
Elizabeth Whittaker (London, United Kingdom)

00:30 **What's new in paediatric sleep?**  
Kim Van Hoorenbeeck (Edegem (Antwerp), Belgium)

00:45 **What's new in the epidemiology of asthma?**  
Liesbeth Duijts (Rotterdam, Netherlands)

## Pre-congress content Session 00:00 - 23:59

## Year in review: Scientific year in review

**Aims :** To cover four key areas that were of particular importance in basic and translational lung research in 2020 and relate to the 2020 Nobel Prize in Chemistry, the congress theme of digital health and COVID-19 diagnosis and vaccination.

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

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

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

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

00:00 **Lung-directed CRISPR/Cas9 gene editing**  
Patrick Harrison (Cork, Ireland)

00:15 **The immune response to COVID-19**  
Lore Vanderbeke (Leuven, Belgium)

00:30 **Artificial intelligence in pulmonary medicine**  
Danai Khemasuwan (Cleveland, United States of America)

00:45 **COVID-19 mRNA vaccines: a step forward from traditional vaccines?**  
Speaker to be confirmed

## Pre-congress content Session 00:00 - 23:59

## Year in review: Clinical year in review

**Aims :** To provide an overview of the most relevant advances in diagnosis and treatment of some of the most prevalent respiratory diseases; to present the most important studies published in the last 12 months about clinical aspects of COVID-19, chronic obstructive pulmonary disease (COPD), asthma and interstitial lung disease.

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

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

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

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

00:00 **COVID-19: impact on respiratory patients and prevention**  
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

**00:15 COPD: implementing biomarkers to improve prognosis**  
Miriam Barrecheguren Fernandez (Barcelona, Spain)

**00:30 Severe asthma: classification and treatment**  
Guy Brusselle (Ghent, Belgium)

**00:45 Interstitial lung disease: improving classification and prognosis**  
Luca Richeldi (Roma, Italy)

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

**Experts view: Performing cardiopulmonary exercise testing in the COVID-19 era**

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

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

**Chairs** : Rebekah Anstey (Cardiff, United Kingdom)

**00:00 Performing cardiopulmonary exercise testing in the COVID-19 era**  
William Stringer (Long Beach, United States of America), Afroditi Boutou (Thessaloniki, Greece)

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

**Experts view: Respiratory physiology**

**Aims** : To describe the parameters measured by oscillometry; To explain the physiological significance of the parameters measured by oscillometry; To contrast the information provided by oscillometry and by conventional pulmonary function testing.

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

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

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

**Chairs** : Natalia Belousova (Toronto, Canada)

**00:00 Respiratory physiology**  
Christina M. Spengler (Zürich, Switzerland), Sam Bayat (Grenoble, France)

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

**Experts view: Utilising data from single cell approaches to study existing and recently emerging lung diseases**

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

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

**Chairs** : Mareike Lehmann (München, Germany)

**00:00 Utilising data from single cell approaches to study existing and recently emerging lung diseases**  
Martijn C. Nawijn (Groningen, Netherlands), Kerstin Meyer (Cambridge, United Kingdom)

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

**Experts view: Digital health surveillance in the thoracic surgery pathway**

**Method(s)** : Surgery

**Tag(s)** : Digital health

**Chairs** : Sara Ricciardi (Bologna, Italy)

**00:00** Cecilia Pompili (Leeds, United Kingdom), Speaker to be confirmed

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

**Experts view: Biomarkers in early-detection of lung cancer: current concepts**

**Aims** : To give an update on the status of biomarkers in the context of lung cancer screening.  
To identify challenges and pitfalls of biomarkers.

**Disease(s) :** Thoracic oncology**Method(s) :** Cell and molecular biology**Tag(s) :** Clinical, Translational**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Radiologist, Scientist (basic, translational), Medical Student, Physician in Pulmonary Training**Chairs :** Charlotte De Bondt (Antwerpen, Belgium)

00:00 Luis M. Montuenga (Pamplona (Navarra), Spain)

**Pre-congress content** **Session** 00:00 - 23:59**Experts view: Pulmonary hypertension and interstitial pulmonary fibrosis****Disease(s) :** Interstitial lung diseases Pulmonary vascular diseases**Method(s) :** General respiratory patient care**Tag(s) :** Clinical**Chairs :** Karen Moor (Rotterdam, Netherlands)00:00 **Pulmonary Hypertension and IPF**  
Vincent Cottin (Lyon, France), Katerina Antoniou (Heraklion, Greece)**Pre-congress content** **Session** 00:00 - 23:59**Experts view: Alpha 1 - antitrypsin deficiency: diagnosis and treatment****Aims :** To understand how to diagnose AATD, and its pulmonary complications; to know which treatments to use for AATD related lung disease; to understand the indications for AAT augmentation**Chairs :** Miriam Barrecheguren Fernandez (Barcelona, Spain)00:00 **Alpha 1 - antitrypsin deficiency: diagnosis and treatment**  
Alice Turner (Birmingham (West Midlands), United Kingdom), Ilaria Ferrarotti (Pavia (PV), Italy)**Pre-congress content** **Session** 00:00 - 23:59**Experts view: Hospital at home for the management of COVID-19****Aims :** To provide an overview of alternatives to conventional hospitalization and continuous monitoring of patients after hospital discharge, with the aim of alleviating hospitals during the COVID-19 pandemic and increasing the resilience of healthcare systems.**Disease(s) :** Respiratory infections**Method(s) :** General respiratory patient care Public health**Tag(s) :** COVID, Clinical, Digital health**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory physiotherapist, Respiratory critical care physician, Physician in Pulmonary Training, Medical Technical Assistant, Respiratory therapist, Medical Student, Scientist (basic, translational)**Chairs :** Joana Cruz (Leiria, Portugal)

00:00 Carme Hernandez Carcereny (Barcelona, Spain), Louise Brien (Ashbourne, Ireland)

**Pre-congress content** **Session** 00:00 - 23:59**Experts view: Smoking and COVID-19 – what have we learned?****ERS VISION: panel discussion video****Aims :** A panel of experts will discuss key areas, including: 1) evidence for increased susceptibility of smokers to COVID-19; 2) COVID-19 and the interference of the tobacco industry; 3) Smoking cessation – perspectives from low- and middle-income countries.**Disease(s) :** Respiratory infections**Method(s) :** Epidemiology Public health General respiratory patient care**Tag(s) :** COVID, Translational**Target audience :** Adult pulmonologist/Clinician, Medical Student, General practitioner, Physician in Pulmonary Training**Chairs :** Jonathan Grigg (London, United Kingdom), Linnea Hedman (Luleå, Sweden)

**00:00** **Smoking and COVID-19 – what have we learned?**  
Sukhwinder Singh Sohal (Launceston (TAS), Australia), Thomas Hird (, United Kingdom), Richard Van Zyl-Smit (Cape Town, South Africa)

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

**Experts view: Virtual/multimodal education, communication skills**  
**The European Respiratory Society Presidential Summit 2021 panel discussion**

**Aims :** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing innovative, virtual/multimodal education and communication skills.

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

**Tag(s) :** Digital health

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

**Chairs :** Anita Simonds (London, United Kingdom)

**How to care for and communicate with patients digitally**  
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

**Digital approaches to promote adherence to treatments and patient education**  
Omar S. Usmani (London, United Kingdom)

**Digital training programmes: the best of new resources**  
Maxime Patout (Mont-Saint Aignan, France)

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

**Experts view: Digital health and innovation**  
**The European Respiratory Society Presidential Summit 2021 panel discussion**

**Aims :** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing innovations in digital health.

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

**Tag(s) :** Digital health

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

**Chairs :** Tamsin Rose (, United Kingdom)

**Digital home resources in clinical trial management**  
Marlies S. Wijzenbeek (Rotterdam, Netherlands)

**How can digital health drive value based healthcare?**  
Jim Hollingshead (San Diego, United States of America)

**Addressing digital exclusion**  
Kjeld Hansen (Oslo, Norway)

**Digital health and data use**  
Michael Strübin (, Belgium)

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

**Experts view: Artificial intelligence and big data**  
**The European Respiratory Society Presidential Summit 2021 panel discussion**

**Aims :** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing artificial intelligence and big data.

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

**Tag(s) :** Digital health

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

**Chairs :** Anita Simonds (London, United Kingdom)

**Decision Support Systems and patient management**  
Wim Vos (Liege, Belgium)

**Harnessing big data for evaluation and regulation of medicines**  
Luis Correia Pinheiro (London, United Kingdom)

**Digital advances in disease surveillance and extended remit of ECDC**  
Pasi Penttinen (Stockholm, Sweden)

Pre-congress content	Session	00:00 - 23:59
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**Statements and technical standards: Updated ERS/ATS technical standards for pulmonary function test interpretation**

**Aims :** To describe current challenges and controversies related to pulmonary function test interpretation; to highlight key updates and recommendations contained in the updated ATS/ERS technical standards for pulmonary function test interpretation; to discuss gaps in evidence, opportunities for new research and future work.

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

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

**Tag(s) :** Translational

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

**00:00 Updated ERS/ATS technical standards for pulmonary function test interpretation**  
Sanja Stanojevic (Halifax (NS), Canada)

Pre-congress content	Session	00:00 - 23:59
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**Statements and technical standards: ERS/EAACI statement on adherence to international adult asthma guidelines**

**Aims :** To recite the findings of an ERS/EAACI task force that: 1) Evaluated the understanding of and adherence to international asthma guidelines by health professionals of different specialties; 2) Assessed the effectiveness of strategies aimed at improving implementation of guideline recommendations; and 3) Compared guidelines adherence and treatment outcomes in patients managed by specialists (respiratory physicians or allergists) or generalists (internists or general practitioners); to identify the clinical benefits of optimal adherence to adult asthma clinical practice guidelines and will describe the most effective methods for achieving optimal adherence in different treatment settings, including multifaceted quality improvement projects and standardized pathways and thresholds for referral for specialist input.

**Disease(s) :** Airway diseases

**Method(s) :** Epidemiology Public health Pulmonary function testing

**Tag(s) :** Clinical

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

**00:00 ERS/EAACI statement on adherence to international adult asthma guidelines**  
Alexander Mathioudakis (Stockport, United Kingdom)

No Room	Session	15:30 - 16:30
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**Assembly members' meeting: Assembly 9: Allied respiratory professionals**

**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 :** Martijn A. Spruit (Horn, Netherlands), Daniel Langer (Leuven, Belgium), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Chris Burtin (Diepenbeek, Belgium), Andreja Sajnic (Zagreb, Croatia), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Joana Cruz (Leiria, Portugal)

No Room	Session	15:30 - 16:30
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**Assembly members' meeting: Assembly 6: Epidemiology and environment**

**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 :** Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Joan B Soriano (Madrid, Spain), Rafael E. de la Hoz (New York, United States of America), Elif Dagli (Istanbul, Turkey), Oriane Dumas (Villejuif, France)

No Room	Session	15:30 - 16:30
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### Assembly members' meeting: Assembly 13: Pulmonary vascular 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

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

**Chairs :** Marion Delcroix (Leuven, Belgium), Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France), David Jiménez Castro (Madrid, Spain), Mona Lichtblau (Zollikon, Switzerland)



**No Room** **Session** **13:30 - 14:30****Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation**

**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 :** Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy), Merel Hellemons (Rotterdam, Netherlands), Marcello Migliore (Catania (CT), Italy), Robin Vos (Leuven, Belgium)

**No Room** **Session** **15:30 - 16:30****Assembly members' meeting: Assembly 4: Sleep disordered breathing**

**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](#)

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

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland), Dries Testelmans (Leuven, Belgium)

**No Room** **Session** **13:30 - 14:30****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), Prashant Nemichand Chhajed (Mumbai, India), Simon Walsh (London, United Kingdom), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Vienna, Austria)

**No Room** **Session** **15:30 - 16:30****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), Silke Meiners (München, Germany), Aurelie Fabre (Dublin 4, Ireland), H. Irene Heijink (Groningen, Netherlands), Agnes W. Boots (Maastricht, Netherlands), Niki Ubags (Epalinges, Switzerland)

No Room	Session	13:30 - 14:30
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### Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology

**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 :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Laura Fregonese (London, United Kingdom), Guido Vaghegini (Volterra (PI), Italy), Janwillem W. H. Kocks (Groningen, Netherlands), Vitalii Poberezhets (Vinnitsia, Ukraine), Sam Bayat (Grenoble, France), Frits M.E. Franssen (Horn, Netherlands), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

No Room	Session	15:30 - 16:30
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### 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](#)

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

**Chairs :** Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Elisabetta Renzoni (London, United Kingdom), Hilario Nunes (Bobigny, France), Francesco Bonella (Düsseldorf, Germany), Tiago Alfaro (Coimbra, Portugal)

**No Room** **Session** **13:30 - 14:30****Assembly members' meeting: Assembly 2: Respiratory intensive care**

**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

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

**Chairs :** Leo Heunks (Amsterdam, Netherlands), Marcus Schultz (Amsterdam, Netherlands), Christian Karagiannidis (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Maxime Patout (Mont-Saint Aignan, France), Ignacio Martin-Loeches (Dublin, Ireland), Marieke L. Duiverman (Groningen, Netherlands)

**No Room** **Session** **15:30 - 16:30****Assembly members' meeting: Assembly 7: Paediatrics**

**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

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

**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Sejal Saglani (London, United Kingdom), Stojka Fustik (Skopje, North Macedonia), Marijke Proesmans (Leuven, Belgium), Theodore Dassios (London, United Kingdom), Liesbeth Duijts (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany), Rory Morty (Heidelberg, Germany), Cristina Ardura-Garcia (Bern, Switzerland)

**No Room** **Session** **13:30 - 14:30****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, please use this Zoom webinar link

**Disease(s) :** Airway diseases

**Chairs :** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Dave Singh (Manchester, United Kingdom), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Carolina Maria Gotera Rivera (Madrid, Spain)

**No Room** **Session** **15:30 - 16:30****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

**Disease(s) :** Respiratory infections

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Cristina Calarasu (Craiova (Dolj), Romania), Michael Loebinger (London, United Kingdom), Alberto Garcia-Basteiro (Maputo, Mozambique)

**No Room** **Session** **18:00 - 19:00****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

**Disease(s) :** Thoracic oncology

**Chairs :** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Torsten Gerriet Blum (Berlin, Germany), Rudolf M. Huber (Munich, Germany), Najib M. Rahman (Oxford, United Kingdom), Adrien Costantini (Paris, France)

07:45-09:15

INDUSTRY VIRTUAL SYMPOSIUM

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INDUSTRY VIRTUAL SYMPOSIUM

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Studio Munich

Session

09:30 - 11:00

**Symposium: Holistic care in interstitial lung disease: monitoring the patient's pathway****Monitoring patients with interstitial lung disease via telemedicine**

**Aims :** to explain the issues associated with monitoring patients with idiopathic pulmonary fibrosis at home during the COVID-19 pandemic; to describe rapidly evolving changes in clinical practice for patients with pre-existing respiratory problems especially interstitial lung disease (ILD) and idiopathic pulmonary fibrosis, including methods initially developed to provide medical access for patients in remote areas and patients who cannot be seen in person; to describe the appropriateness and limitations of telemedicine; to discuss the clinical utility of home spirometry, monitoring of oxygenation using patients' own pulse oximetry devices, the potential utility of measuring forced vital capacity using handheld spirometry devices for assessing the severity of a patient's disease status in their home and the assessment of overall physical activities in a patient's home.

**Disease(s) :** [Interstitial lung diseases](#)**Method(s) :** General respiratory patient care Public health**Tag(s) :** Clinical, COVID, Digital health**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Physician in Pulmonary Training, Respiratory physiotherapist**Chairs :** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)**09:30 Introduction****09:35 Telemedicine: maintaining quality during times of transition**  
Ganesh Raghu (Seattle, United States of America)**09:50 Home monitoring: prognosis, benefits and pitfalls**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)**10:05 Living well with pulmonary fibrosis: new insights**  
Elisabeth Bendstrup (Aarhus N, Denmark)**10:20 Patient-centred medicine in ILDs: towards a holistic approach**  
Anne-Marie Russell (Taunton, United Kingdom)**10:35 Discussion and Q&A**

Studio London

Session

09:30 - 11:00

**Symposium: New developments in mechanical ventilation and ventilator weaning**

**Aims :** To describe global variation in ventilator weaning strategies and outcomes; to list at least three key principles of invasive ventilation in patients with severe chronic obstructive pulmonary disease (COPD); to define lung and diaphragm protective ventilation and to list at least three diagnostic tools (and reference values) for delivering such ventilation; to define machine learning; to summarise realistic expectations for the role of machine learning in mechanical ventilation.

**Disease(s) :** [Respiratory critical care](#) [Sleep and breathing disorders](#)**Method(s) :** Physiology Pulmonary rehabilitation 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**Chairs :** Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)**09:30 Introduction****09:35 Patient's perspective**  
Olivia Fulton (Edinburgh (Edinburgh), United Kingdom)**09:40 Epidemiology and geographical variation in ventilator weaning**  
John Laffey (Galway, Ireland)

- 09:55** **Personalised mechanical ventilation and weaning in patients with COPD**  
Lise Piquilloud (Lausanne, Switzerland)
- 
- 10:10** **Lung and diaphragm protective ventilation**  
Katerina Vaporidi (Heraklio, Greece)
- 
- 10:25** **The impact of machine learning on mechanical ventilation in critically ill patients**  
Lucas Fleuren (Amsterdam, Netherlands)
- 
- 10:35** **Discussion and Q&A**

## Studio Amsterdam Session 09:30 - 11:00

### Symposium: Repair and regeneration in chronic lung disease and lung cancer Reflections from the LSC 2021 conference

**Aims :** To reflect on the Lung Science Meeting of 2021, providing some of the highlights at the main ERS meeting. The aims of the Lung Science meeting were threefold: to present the very best of international lung science research; to highlight new discoveries likely to impact on the future of respiratory medicine, and; to encourage debate and interaction between young postdoctoral scientists and established investigators.

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

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

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

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

**Chairs :** Reinoud Gosens (Groningen, Netherlands), Silke Meiners (München, Germany)

**09:30** **Introduction**

- 09:35** **Club cells in adenocarcinoma and alveolar repair**  
Georgios Stathopoulos (Munich, Germany)

- 09:50** **Cell-matrix interactions in chronic lung disease**  
Janette K. Burgess (Groningen, Netherlands)

- 10:05** **The host response to decellularised lung extracellular matrix reinforces bioinks for 3D bioprinting of lung tissue for transplantation**  
Martina M. De Santis (Lund, Sweden)

- 10:20** **Mesenchymal stem cell therapy for severe emphysema**  
Pieter S. Hiemstra (Leiden, Netherlands)

**10:35** **Discussion and Q&A**

## Channel 3 Session 09:30 - 11:00

### Oral presentation: Highlights for primary care in 2021

**Aims :** This session includes the Best Abstract for Assembly 1, entitled "Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial".

**Disease(s) :** Airway diseases

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

**Chairs :** Janwillem W. H. Kocks (Groningen, Netherlands), Hanna Sandelowsky (Vendelso, Sweden)

## Channel 6 Session 09:30 - 11:00

### Oral presentation: All about pulmonary arterial hypertension

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

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

**Chairs :** Nazzareno Galiè (Bologna (BO), Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

## Channel 4 Session 09:30 - 11:00

### Oral presentation: Chronic COVID - 19

**Disease(s)** : Airway diseases Respiratory critical care Interstitial lung diseases**Method(s)** : General respiratory patient care Pulmonary function testing Epidemiology Imaging Physiology Cell and molecular biology Endoscopy and interventional pulmonology Public health**Chairs** : Eva Polverino (Barcelona, Spain), Michal Shteinberg (Haifa, Israel)**Channel 5** Session 09:30 - 11:00**Oral presentation: Environment and respiratory health****Disease(s)** : Airway diseases**Method(s)** : Epidemiology Public health General respiratory patient care**Chairs** : Lidwien A.M. Smit (Utrecht, Netherlands), Chair to be confirmed**Studio Paris** Session 09:30 - 11:00**Lungs on fire: LoF Paediatric respiratory diseases****Aims** : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**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** : Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland), Jonathan Grigg (London, United Kingdom)**Discussants** : Monika Gappa (Düsseldorf, Germany)**09:30** Introduction**09:35** Presentation of cases by the session facilitator  
Monika Gappa (Düsseldorf, Germany)

Case 1 - Author: Rachael Marpole, Australia

Case 2 - Author: Tugba Ramasli Gursoy, Turkey

Case 3 - Author: Marita Antoniadi, Greece

Case 4 - Author: Tugba Ramasli Gursoy, Turkey

**10:55** Session wrap-up**Channel 1** Session 09:30 - 11:30**Language session: French programme 2021****A joint ERS/SPLF session****Aims** : This programme will be available in French.**Disease(s)** : Respiratory critical care Respiratory infections Thoracic oncology**Method(s)** : Endoscopy and interventional pulmonology Physiology Respiratory intensive care**Tag(s)** : Clinical, COVID**Target audience** : Adult pulmonologist/Clinician, Respiratory critical care physician, Physiologist, Respiratory physiotherapist, Thoracic oncologist, Respiratory therapist**Chairs** : Marc Humbert (Le Kremlin-Bicêtre, France), Chantal Raheison-Semjen (Pessac, France)**09:30** Introduction**09:35** Thermoplastie bronchique : indications actuelles / Asthma thermoplasty: current indications  
Guibert Nicolas (Toulouse, France)**09:50** Prise en charge de l'emphysème : Approche personnalisée / Management of emphysema: personalised approach  
Pierre-Régis Burgel (Paris, France)



10:05	<b>Où en est-on dans la prise en charge de la Covid en septembre 2021 ? / Management of COVID-19: where are we ?</b> Claire Andrejak (Amiens, France)
10:20	<b>Discussion and Q&amp;A</b>
10:33	<b>Microbiote et cancer bronchique: l'exemple de l'immunothérapie / Microbiota and lung cancer: an example of immunotherapy</b> Lisa Derosa (, France)
10:48	<b>Pneumopathies infiltrantes diffuses sous immunothérapie / Interstitial lung diseases and immunotherapy</b> Jacques Cadranel (Paris Cedex 20, France)
11:03	<b>Exacerbation aiguë de la fibrose pulmonaire idiopathique: ce qu'il ne faut plus faire et ce qu'il reste à faire. / Acute exacerbation of idiopathic pulmonary fibrosis: what should not be done and what remains to be done?</b> Vincent Cottin (Lyon, France)
11:18	<b>Discussion and Q&amp;A</b>

## Studio Barcelona Session 09:30 - 11:00

### State of the art session: Airway diseases

#### Are recent clinical advances leading to controversies in airway diseases?

**Aims :** To evaluate the use of short-acting  $\beta_2$  agonist (SABA) monotherapy versus maintenance and reliever therapy (MART) and triple therapy for asthma; to describe new treatments for chronic cough; to determine the optimal endoscopic procedure for different patients with chronic obstructive pulmonary disease (COPD) and asthma; to discuss the role of artificial intelligence in asthma and COPD treatment.

**Disease(s) :** Airway diseases

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Omar S. Usmani (London, United Kingdom), Ayşe Arzu Yorgancıoğlu (Izmir, Turkey)

#### 09:30 Introduction

09:35 **How to treat asthma in 2021? Goodbye SABA, hello MART and welcome triple therapy**  
Alberto Papi (Ferrara, Italy)

09:50 **New treatments for chronic cough**  
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

10:05 **Which endoscopic procedure to use and in what patient? Valves, coils, foam and heat in COPD and asthma**  
Lee Pyng (Singapore, Singapore)

10:20 **Will artificial intelligence really transform clinical practice? Applications in asthma and COPD**  
Konstantinos Kostikas (Ioannina, Greece)

10:35 **Discussion and Q&A**

## Channel 2 Session 09:30 - 11:00

### Joint session: Vaccination and infections

#### ERS/Industry joint session

**Aims :** COVID 19 has demonstrated the importance of infection diseases in terms of morbidity and mortality, especially for people with chronic respiratory diseases. Vaccination is the most important preventive measure against this. Many vaccinations are recommended in our guidelines worldwide. Even so, vaccination rates are still low. The aim of this symposium is to present the current status in the development of various vaccines and thus move the importance of vaccination more into the focus of care for respiratory patients. SARS-CoV-2 as the new, influenza as the classic and pertussis infectious disease as the forgotten will be presented in this symposium. The current standing of vaccination and the development of vaccines for this will be reported. Strategies to increase vaccination rates will be discussed.

**Disease(s) :** Respiratory infections**Tag(s) :** COVID, Clinical**Target audience :** Adult pulmonologist/Clinician, Physician in Pulmonary Training, Respiratory critical care physician, Clinical researcher**Chairs :** Chair to be confirmed**09:30 Introduction**  
Speaker to be confirmed**09:35 COVID 19 vaccination**  
Speaker to be confirmed**09:55 New Influenza vaccines**  
Speaker to be confirmed**10:15 New pertussis vaccine**  
Speaker to be confirmed**10:30 Panel discussion**  
Speaker to be confirmed**Skills lab** **Session** **10:00 - 12:00****Skills lab: Cardiopulmonary exercise testing****Aims :** To understand the physiological significance of cardiopulmonary response profiles, in the context of exercise protocols; To describe the typical response profiles observed in patients with different cardio-respiratory diseases; To discriminate between “typical” from “anomalous” response profiles that can cause misinterpretation of test results and evaluate the effects of therapeutic interventions.**Method(s) :** Pulmonary function testing**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Journalist**Chairs :** Pierantonio Laveneziana (Paris, France), Michele Schaeffer (Vancouver (BC), Canada)**10:00 Introduction**  
Pierantonio Laveneziana (Paris, France), Michele Schaeffer (Vancouver (BC), Canada)**10:05 Equipment explanation**  
Joanna Shakespeare (Coventry (West Midlands), United Kingdom)**10:15 Calibration**  
Joanna Shakespeare (Coventry (West Midlands), United Kingdom)**10:25 CPET procedure demonstration**  
Pierantonio Laveneziana (Paris, France)**10:40 Question and answers**  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)**10:45 Interpretation**  
Pierantonio Laveneziana (Paris, France)**11:25 Clinical cases**  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)**11:45 Questions and answer**  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)**Studio Amsterdam** **Session** **11:15 - 12:45****Symposium: Innate immunity and lung epithelial repair: what really happens?**

Epithelial repair responses upon respiratory infection and lung tissue damage

**Aims :** to describe the mechanisms underlying epithelial barrier disruption and impaired recovery in response to environmental triggers, which are crucial for the development of novel therapeutic strategies, including stem cell-based strategies; to provide an overview of the cellular and molecular mechanisms involved in epithelial damage and repair as well as abnormalities of these mechanisms in lung disease and regulation of these processes by virus-induced innate immune responses; to explain the complex role of the epithelial barrier in the onset and progression of pulmonary diseases and its potential to serve as a target for therapeutic strategies; to differentiate between epithelial cell death modalities and to describe how these contribute to lung tissue damage in chronic obstructive pulmonary disease (COPD); to explain how the release of specific danger molecules upon epithelial injury, e.g., those acting on receptor for advanced glycation end products (RAGE), can result in alveolar tissue damage and impaired lung tissue regeneration in COPD; to describe the role of innate immune responses in abnormal lung tissue regeneration upon viral infection; to describe the potential of stem cells for epithelial regeneration upon infection in cystic fibrosis (CF) patients.

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

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

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

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

**Chairs :** Reinoud Gosens (Groningen, Netherlands), Silke Meiners (München, Germany)

**11:15 Introduction**

**11:20 Epithelial cell death, tissue damage and repair: looking inside the COPD lung**  
Suzanne Cloonan (Dublin, Ireland)

**11:35 Repairing the COPD epithelium: is 'RAGE' the solution?**  
Simon D. Pouwels (Groningen, Netherlands)

**11:50 Viruses and interferons: working together to injure the epithelium**  
Andreas Wack (London, United Kingdom)

**12:05 What damages the cystic fibrosis lung epithelium: host or microbe?**  
Catherine Greene (Dublin 9, Ireland)

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

## Studio London Session 11:15 - 12:45

### Symposium: Acute respiratory distress syndrome phenotypes: implications for diagnosis and treatment

**Aims :** To describe heterogeneity in the pathophysiology of acute respiratory distress syndrome (ARDS); to describe biological and morphological subphenotypes of ARDS and the implications for patient management; to describe treatable traits in ARDS; to explain the relationship between biological and physiological variation and optimal patient management.

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

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

**Tag(s) :** Translational

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

**Chairs :** Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

**11:15 Introduction**

**11:20 Current understanding of ARDS pathophysiology**  
Nuala Meyer (Philadelphia, United States of America)

**11:35 Personalised medicine through ventilator settings: implications of lung morphology in ARDS**  
Jean-Michel Constantin (Paris, France)

**11:50 Personalised medicine through biological subphenotyping of ARDS**  
Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

**12:05 Personalised medicine through individual approaches to resolve lung injury**  
Brijesh Patel (London, United Kingdom)

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

## Channel 6 Session 11:15 - 12:45

### Oral presentation: Novelties in interventional pulmonology

**Disease(s)** : Airway diseases Thoracic oncology Interstitial lung diseases**Method(s)** : Endoscopy and interventional pulmonology General respiratory patient care Imaging**Chairs** : Prashant Nemichand Chhajed (Mumbai, India), Chair to be confirmed**Channel 2** Session 11:15 - 12:45**Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care****Disease(s)** : Airway diseases Respiratory critical care Interstitial lung diseases**Method(s)** : Public health Pulmonary rehabilitation Cell and molecular biology Palliative care Pulmonary function testing General respiratory patient care**Chairs** : Guido Vaghegini (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)**Channel 3** Session 11:15 - 12:45**Oral presentation: Non-pulmonary arterial hypertension pulmonary hypertension****Aims** : This session includes the Best Abstract for Assembly 13, entitled "Current strategies for managing CTEPH".**Disease(s)** : Pulmonary vascular diseases Airway diseases Interstitial lung diseases**Method(s)** : Physiology Cell and molecular biology Epidemiology Pulmonary function testing General respiratory patient care**Chairs** : Silvia Ulrich (Zurich, Switzerland)**Channel 4** Session 11:15 - 12:45**Oral presentation: Psychological and behavioural issues in respiratory care****Disease(s)** : Interstitial lung diseases Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Pulmonary rehabilitation Public health Respiratory intensive care Epidemiology Imaging**Chairs** : Ingeborg Farver-Vestergaard (Skanderborg, Denmark), Thomas Janssens (Leuven, Belgium)**Studio Paris** Session 11:15 - 11:55**Guidelines session: ERS Clinical practice guidelines for managing children and adolescents with bronchiectasis****Aims** : To describe the objectives of managing children/adolescents with bronchiectasis; to present the ERS recommendations relating to diagnosing and undertaking the minimum investigations when evaluating a child/adolescent with chronic suppurative lung disease; to explain reasons for the various recommendations and to increase awareness of the guideline's recommendations on antibiotic treatment of exacerbations, pathogen eradication, long-term antibiotic therapy, asthma-type therapies (inhaled corticosteroids, bronchodilators), mucoactive drugs, airway clearance, disease monitoring, factors to consider before surgical treatment and the reversibility and prevention of bronchiectasis in children/adolescents.**Disease(s)** : Airway diseases Paediatric respiratory diseases Respiratory infections**Method(s)** : General respiratory patient care Public health**Tag(s)** : Clinical**Target audience** : Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist**Chairs** : Jonathan Grigg (London, United Kingdom), Cristina Ardura-Garcia (Bern, Switzerland), Alexander Möller (Zürich, Switzerland)**11:15** Introduction**11:17** Parent perspectives and input into the guideline  
Zena Powell (Aylesbury, United Kingdom)**11:22** Overall clinical approach  
Andrew Bush (London, United Kingdom)**11:31** Treatment options and recommendations  
Keith Grimwood (Gold Coast (QLD), Australia)**11:45** Practical approach with cases, interactive questions and discussion  
Angela Zacharasiewicz (Wien, Austria)

<b>Studio Munich</b>	<b>Session</b>	<b>11:15 - 11:55</b>
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### Pro-Con debate: Post COVID interstitial lung diseases syndrome: diagnosis and management as interstitial lung disease?

**Aims :** To describe the spectrum of interstitial lung changes observed after COVID-19 infection, and to address diagnostic and management related issues; to debate the use or not corticosteroids plus antifibrotics and/or immunomodulation according pathogenetic and clinical/radiological insights in the field. to discuss clinical, radiological and pathological description of post COVID-19 interstitial lung cases.

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

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

**Tag(s) :** Clinical

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

**Chairs :** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

**11:15 Introduction**

**11:17 Use of antifibrotics in post-COVID ILD: PRO**  
Bruno Crestani (Paris, France)

**11:29 Use of antifibrotics in post-COVID ILD: CON**  
Sara Tomassetti (Florence, Italy)

**11:41 Discussion and Q&A**

<b>Channel 1</b>	<b>Session</b>	<b>11:45 - 13:00</b>
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### Challenging clinical cases: CCC Respiratory infections

**Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory infections area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

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

**Tag(s) :** Clinical

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

**Chairs :** Raquel Duarte (Porto, Portugal), Pierre-Régis Burgel (Paris, France)

**11:45 Introduction**

**11:50 A case of lower limb weakness following Covid-19 infection**  
Chung-Mei Maggie Cheung (London, United Kingdom)

**12:00 Persistent fever and cytopenia in a patient with pulmonary tuberculosis**  
Sanjeeva Hettiarachchi (Kiribathgoda, Sri Lanka)

**12:10 Tropical Disaster - A bronchoscopic surprise**  
Thiyagesa Deva Ganapathy Sivanandaraj (Dindigul, India)

**12:20 Respiratory failure 4 months after severe SARS-Cov-2 infection**  
Thibault Viatgé (Toulouse, France)

**12:30 Constitutional syndrome and miliary pattern in HIV-positive patient**  
Patricia Nadal-Baron (Barcelona, Spain)

**12:40 Discussion and Q&A**

<b>Studio Paris</b>	<b>Session</b>	<b>12:05 - 12:45</b>
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### Guidelines session: The ERS guidelines for the diagnosis of asthma in children aged 5-16 years

**Aims :** To present the results from the ERS task force for the development of European Respiratory Society guidelines for the diagnosis of asthma in children aged 5-16 years; to discuss the background, motivation and methodology of preparing these guidelines; to present the core recommendations and underscore them with some clinical cases; to provide a commentary from outside of the task force.

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

**Tag(s) :** Clinical

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

**Chairs :** Jonathan Grigg (London, United Kingdom), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

**12:05 Introduction**

**12:07 Why guidelines for asthma diagnosis in school children? Background and motivation**  
Erol Gaillard (Leicester (Leicestershire), United Kingdom)

**12:17 How should asthma be diagnosed in school children? Recommendations of the evidence based ERS-Guidelines**  
Carmen Cornelia Maria de Jong (Bern, Switzerland)

**12:27 Parent's view**  
Speaker to be confirmed

**12:31 How do the new guidelines work? Practical approach to the new guidelines for asthma diagnosis in children, discussion and Q&A**  
David Lo (Leicester, United Kingdom)

**Studio Munich Session 12:05 - 12:45**

**Guidelines session: ERS clinical practice guidelines on treatment of sarcoidosis**

**Aims :** To report on the updated clinical guidelines on treatment of sarcoidosis.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Patient, Scientist (basic, translational)

**Chairs :** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

**12:05 Introduction**

**12:07 Clinical approach and changes from previous guidelines**  
Robert P. Baughman (Cincinnati, United States of America)

**12:17 Treatment options and recommendations**  
Athol Wells (London, United Kingdom)

**12:27 Practical approach with cases, interactive questions and discussion**  
Dominique Israel-Biet (Paris, France)

**13:00-14:30**

**INDUSTRY VIRTUAL SYMPOSIUM**

**SEE PAGE 1**

**Skills lab Session 13:00 - 15:00**

**Skills lab: Continuous positive airway pressure, non-invasive ventilation and mechanical ventilation**

**Aims :** To improve team members chances of success in delivering continuous positive airway pressure, non-invasive ventilation and high flow nasal oxygen in acute hypoxaemic respiratory failure in COVID and non-COVID patients, to understand lessons learnt in use of advanced mechanical ventilation and ECMO in covid patients, to provide guidance on best practice in weaning, tracheotomy care and rehabilitation in COVID and non-COVID patients

**Disease(s) :** [Respiratory critical care](#)

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

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

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

**Chairs :** Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

**13:00 Introduction**  
Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

**13:05 Continuous positive airway pressure, non-invasive ventilation and high flow nasal oxygen: lessons for success**  
Lara Pisani (Bologna (BO), Italy), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)



- 13:30 Invasive mechanical ventilation in severe respiratory failure and extracorporeal membrane oxygenation**  
Giacomo Grasselli (Milano (MI), Italy), Maxime Patout (Mont-Saint Aignan, France)
- 
- 13:55 Weaning and tracheostomy care**  
Michelle Chatwin (London, United Kingdom), Nicholas Terzi (Grenoble, France)
- 
- 14:20 Rehabilitation and physiotherapy following acute respiratory failure**  
Tina Andersen (Bergen, Norway), Cheryl Hickmann (Brussels, Belgium)
- 
- 14:45 Discussion**  
Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Challenges and advances in the diagnosis and clinical management of tuberculosis**

**Disease(s) :** Thoracic oncology

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

**Chairs :** Chair to be confirmed

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Pulmonary embolism in non-COVID-19 and COVID-19 patients**

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

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

**Chairs :** Lucilla Piccari (Barcelona, Spain), Luis Jose JARA PALOMARES (Sevilla, Spain)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: COVID - 19: lessons learned**

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

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

**Chairs :** Chair to be confirmed

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Medical education in respiratory medicine**

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

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

**Chairs :** Giovanni Sotgiu (Porto Torres (SS), Italy), Pierantonio Laveneziana (Paris, France)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Lung function evaluation and assessment of airway diseases**

**Disease(s) :** Airway diseases

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

**Chairs :** William Stringer (Long Beach, United States of America), Raffaele Dellaca (Milano (MI), Italy)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Biomarkers and e-health in idiopathic interstitial pneumonia**

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

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

**Chairs :** Irina Ruxandra Strambu (Bucuresti (Sector 5), Romania), Chair to be confirmed

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Hypoxia, exercise and respiratory function in pathophysiological conditions**

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

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

**Chairs :** Samuel Verges (Grenoble, France), Christina M. Spengler (Zürich, Switzerland)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Diagnosis and management of COVID-19**

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

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

**Chairs :** Dimitrios Toumpanakis (Athens, Greece), Maria Ada Presotto (Heidelberg, Germany)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Moving forward in various aspects of sarcoidosis**

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

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

**Chairs :** Natalia V. Rivera (Stockholm, Sweden), Vasileios Kouranos (London, United Kingdom)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: News in treatment and diagnosis of idiopathic interstitial pneumonia**

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

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

**Chairs :** Julia Wälscher (Essen, Germany), Carlo Vancheri (Catania (CT), Italy)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Posters in paediatric bronchology**

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

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

**Chairs :** Nadine Freitag (Duesseldorf, Germany), Dirk Schramm (Düsseldorf, Germany)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Pulmonary rehabilitation in asthma and COPD**

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

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

**Chairs :** Janos Tamas Varga (Budapest, Hungary)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Symptoms across respiratory diseases and impact of COVID-19**

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

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

**Chairs :** Shakila Devi Perumal (Cardiff, United Kingdom), Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Novel imaging analysis methodologies in diffuse lung diseases**

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

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

**Chairs :** Helmut Prosch (Wien, Austria), Licia Zanol Lorencini Stanzani (Lisbon, Portugal)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Pathophysiology and clinical consequences of obstructive sleep apnoea**



**Disease(s)** : Sleep and breathing disorders**Method(s)** : General respiratory patient care Cell and molecular biology Physiology Epidemiology Pulmonary function testing**Chairs** : Manuel Sanchez De La Torre (Lleida, Spain), Athanasia Pataka (Thessaloniki, Greece)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Thoracic surgery, lung cancer and complications of COVID-19****Disease(s)** : Thoracic oncology Respiratory critical care Pulmonary vascular diseases**Method(s)** : Surgery Epidemiology Endoscopy and interventional pulmonology Respiratory intensive care General respiratory patient care Pulmonary function testing Physiology Imaging**Chairs** : Peter Yablonsky (St. Petersburg, Russian Federation), Sandra LINDSTEDT (Lund, Sweden)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Respiratory physiology and breathing during sleep in health and sickness****Disease(s)** : Sleep and breathing disorders Respiratory critical care**Method(s)** : Physiology Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Epidemiology Palliative care Respiratory intensive care Surgery**Chairs** : Stijn Verhulst (Antwerpen, Belgium), Florian Singer (Bern, Switzerland)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Pathogenesis and pathophysiology of pulmonary hypertension****Disease(s)** : Pulmonary vascular diseases Airway diseases**Method(s)** : Cell and molecular biology Physiology Imaging General respiratory patient care**Chairs** : Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom), Laurence Dewachter (Bruxelles, Belgium)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Pulmonary rehabilitation in the COVID-19 era****Disease(s)** : Respiratory critical care Sleep and breathing disorders Airway diseases Interstitial lung diseases**Method(s)** : General respiratory patient care Pulmonary function testing Public health Pulmonary rehabilitation Epidemiology**Chairs** : Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Mara Paneroni (Mazzano (BS), Italy)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Primary care organisation and epidemiology****Disease(s)** : Airway diseases Respiratory critical care Sleep and breathing disorders Thoracic oncology Interstitial lung diseases Pulmonary vascular diseases**Method(s)** : General respiratory patient care Public health Epidemiology Pulmonary rehabilitation Pulmonary function testing**Chairs** : Ee Ming Khoo (Kuala Lumpur, Malaysia), Chair to be confirmed**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Burden and epidemiology of COVID-19****Disease(s)** : Respiratory critical care Airway diseases Sleep and breathing disorders**Method(s)** : Epidemiology General respiratory patient care Respiratory intensive care Public health Pulmonary function testing Imaging**Chairs** : John R Hurst (London, United Kingdom), Vanessa Garcia-Larsen (Baltimore, United States of America)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Tuberculosis, COVID-19 and other comorbidities****Method(s)** : General respiratory patient care Public health Epidemiology Cell and molecular biology Respiratory intensive care**Chairs** : Graham H. Bothamley (London, United Kingdom), Irina Kontsevaya (Borstel, Germany)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: The different faces of sleep disturbances in respiratory diseases and beyond**

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

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

**Chairs** : Carolina Lombardi (Milano (MI), Italy), Renaud Tamisier (Grenoble, France)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: COVID-19 and obstructive diseases: risk factors, management and long-term effects**

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

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

**Chairs** : Sebastian L. Johnston (London, United Kingdom), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: Asthma clinical trials and real-life studies**

**Disease(s)** : Airway diseases

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

**Chairs** : David J Jackson (London, United Kingdom), Imran Satia (Hamilton, Canada)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: COVID-19 and acute respiratory failure**

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

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

**Chairs** : Christian Karagiannidis (Cologne, Germany), Christoph Fisser (Regensburg, Germany)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: Emerging new mechanisms of chronic lung disease**

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

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

**Chairs** : Charalambos Michaeloudes (London, United Kingdom), Aleksandra Szczepankiewicz (Poznań, Poland)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: Biomarkers for the management of bronchial obstructive diseases**

**Disease(s)** : Airway diseases

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

**Chairs** : Polyxeni Ntontsi (Athens, Greece), Andrei Malinowski (Uppsala, Sweden)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: Bronchoscopy in the COVID - 19 era: cryobiopsy**

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

**Method(s)** : Endoscopy and interventional pulmonology Surgery General respiratory patient care Respiratory intensive care Pulmonary function testing

**Chairs** : Preyas Vaidya (Navi Mumbai, India), Arshang Valipour (Wien, Austria)

## Pre-congress content Session 13:15 - 14:15

**Thematic poster: Asthma burden and management I**

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

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

**Chairs** : Núria Toledo Pons (Palma De Mallorca, Spain), Job F.M. van Boven (Groningen, Netherlands)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: COVID - 19 biomarkers

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

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

**Chairs** : Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: New insight into the immunology of allergies, asthma and COPD: from mouse to man

**Disease(s)** : Airway diseases

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

**Chairs** : Lena Uller (Lund, Sweden), Peter Gibson (Newcastle, Australia)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: Severe asthma: evaluation using patient-reported outcome measures (PROMs) and biomarkers, comorbidities and treatments

**Disease(s)** : Airway diseases

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

**Chairs** : Angira Dasgupta (Kolkata (West Bengal), India), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: Peripheral muscle function, exercise capacity and functional status in respiratory disease

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

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

**Chairs** : Catarina Duarte Santos (Almada, Portugal), Erik Frykholm (Umeå, Sweden)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: Inhaled treatments for COPD: clinical trials and real-world studies

**Disease(s)** : Airway diseases

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

**Chairs** : Alexander Mathioudakis (Stockport, United Kingdom), Bilun Gemicioglu (Istanbul, Turkey)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: New insights into the airway immunology of lung disease

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

**Method(s)** : Cell and molecular biology Pulmonary function testing Imaging Physiology Transplantation Endoscopy and interventional pulmonology

**Chairs** : Niki L. Reynaert (Maastricht, Netherlands), Kylie Belchamber (Birmingham, United Kingdom)

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: Airway pharmacology: translational and basic science

**Disease(s)** : Airway diseases

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

**Chairs** : Simon Lea (Manchester (Greater Manchester), United Kingdom), Chair to be confirmed

Pre-congress content	Session	13:15 - 14:15
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Thematic poster: Biology of lung cancer: preclinical and translational research

**Disease(s)** : Thoracic oncology Airway diseases Sleep and breathing disorders**Method(s)** : Cell and molecular biology**Chairs** : Diego Kauffmann-guerrero (Munich, Germany), Ilona Tietzova (Praha, Czech Republic)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: COVID – 19: treatments and predictive factors****Disease(s)** : Respiratory critical care Thoracic oncology**Method(s)** : General respiratory patient care Respiratory intensive care Public health Epidemiology**Chairs** : Eva Van Braeckel (Ghent, Belgium), Andrea Gramegna (Milano (MI), Italy)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Novel insights into the pathogenesis of chronic lung diseases****Disease(s)** : Airway diseases Thoracic oncology Respiratory critical care Interstitial lung diseases**Method(s)** : Physiology Cell and molecular biology Epidemiology Pulmonary function testing**Chairs** : Stefan Marciniaik (Cambridge (Cambridgeshire), United Kingdom), Chair to be confirmed**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Advances in therapeutic plans for sleep disordered breathing****Disease(s)** : Sleep and breathing disorders**Method(s)** : General respiratory patient care Physiology Pulmonary rehabilitation Epidemiology**Chairs** : Özen K Basoglu (Izmir, Turkey), Johan Verbraecken (Edegem (Antwerp), Belgium)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Respiratory physiotherapy: e-health, activities of daily living and measurement properties of instruments****Disease(s)** : Airway diseases Interstitial lung diseases Thoracic oncology**Method(s)** : General respiratory patient care Public health Pulmonary rehabilitation Physiology**Chairs** : Tania Janaudis-Ferreira (Montréal (QC), Canada), Ruth E Barker (Warminster, United Kingdom)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Developments in biomarkers and treatment strategies for chronic lung diseases****Disease(s)** : Airway diseases Interstitial lung diseases Respiratory critical care Pulmonary vascular diseases**Method(s)** : Cell and molecular biology Physiology Pulmonary function testing General respiratory patient care**Chairs** : Manuela Platé (London, United Kingdom), Pauline BARDIN (Champs-sur-Marne, France)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Long COVID - 19****Disease(s)** : Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Method(s)** : Respiratory intensive care Pulmonary function testing Imaging General respiratory patient care Epidemiology Public health Physiology**Chairs** : Gernot G.U. Rohde (Frankfurt am Main, Germany), Chair to be confirmed**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Clinical features and challenges of COVID-19****Disease(s)** : Interstitial lung diseases**Method(s)** : General respiratory patient care Epidemiology Public health**Chairs** : Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom), Chair to be confirmed**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Non-invasive respiratory support in COVID-19****Disease(s)** : Respiratory critical care Airway diseases**Method(s)** : General respiratory patient care Respiratory intensive care Palliative care

**Chairs :** Stefano Nava (Bologna (BO), Italy), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

### Thematic poster: Patient-reported outcomes in respiratory disease

**Disease(s) :** Airway diseases

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

**Chairs :** Lisa Jane Brighton (London, United Kingdom), Eleonora Volpato (Milano (MI), Italy)

## Channel 1 Session 14:30 - 15:45

### Challenging clinical cases: CCC Paediatric respiratory diseases

**Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in paediatric respiratory diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

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

**Tag(s) :** Clinical

**Target audience :** Paediatrician, Clinical researcher, General practitioner, Nurse, Physiologist, Radiologist, Physician in Pulmonary Training, Respiratory critical care physician, Respiratory physiotherapist

**Chairs :** Monika Gappa (Düsseldorf, Germany), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

#### 14:30 Introduction

**14:35 One bug, many drugs**  
Kushalini Hillson (Oxford, United Kingdom)

**14:45 Telehealth possibilities and pitfalls in COVID-19 lockdown: a case of hypoxia in a child**  
Marco Zampoli (Cape Town, South Africa)

**14:55 DRESS to Impress: A Case of Eosinophilic Bronchiectasis with Systemic Sequelae**  
Elise Cole (Glasgow, United Kingdom)

**15:05 Unusual cause of newborn respiratory distress**  
Arlette Andrade (La Serena, Chile)

**15:15 Clubbing: A learning curve**  
Laura Gardner (LONDON, United Kingdom)

**15:25 Discussion and Q&A**

## Studio Amsterdam Session 14:45 - 16:15

### Symposium: Digital health in respiratory medicine: opportunities for everyone

**Aims :** To discuss the potential for implementation of e-Health/m-Health technologies in routine respiratory medicine; to explain novel methods for telemonitoring, telerehabilitation, use of artificial intelligence technologies and m-Health for different groups of respiratory patients; to identify the main challenges for adoption and implementation of e-Health/m-Health technologies in clinical practice; to provide an update on developments in digital technology and demonstrate its use in clinical practice.

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

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Vitalii Poberezhets (Vinnytsia, Ukraine), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

#### 14:45 Introduction

**14:50 The World Health Organization global strategy on digital health 2020–2025: perspectives for respiratory medicine**  
Speaker to be confirmed

**15:05 Artificial intelligence in the clinic: possible roles for pulmonary rehabilitation tests**  
Wim Janssens (Leuven, Belgium)



**15:20 Telerehabilitation and telemonitoring of pulmonary patients**  
Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom)

**15:35 Behavioural changes of patients and health professionals in the digital era**  
Marieke Verkleij (Amsterdam, Netherlands)

**15:50 Discussion and Q&A**

## Studio London

## Session

14:45 - 16:15

### Symposium: Diagnostic and therapeutic advances in mesothelioma care

**Aims :** To describe the latest achievements in diagnosis and treatment of pleural mesothelioma in light of the recent application of artificial intelligence for medical diagnosis and care.

**Disease(s) :** Thoracic oncology

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

**Tag(s) :** Clinical, Digital health

**Target audience :** Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

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

**14:45 Introduction**

**14:50 Artificial intelligence in diagnosis of mesothelioma**  
Françoise Galateau-Salle (Caen, France)

**15:05 The next mesothelioma frontiers: targeted therapies**  
Jens Soerensen (Copenhagen, Denmark)

**15:20 Intrathoracic hyperthermic chemotherapy: facts and fables**  
Till Markowiak (Regensburg, Germany)

**15:35 Surgery in the era of immune and targeted therapy**  
Isabelle Opitz (Zurich, Switzerland)

**15:50 Discussion and Q&A**

## Studio Munich

## Session

14:45 - 16:15

### Hot topics: Environment, air pollution, health and respiratory disease

**Aims :** To discuss the need for clean air by patients with asthma and allergies; to explain the impact of air pollutants on the early origins of airway disease; to present the main effects of heat on health and its interaction with air pollution; to explain the link between inhaled therapies and pollution.

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

**Tag(s) :** Clinical

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

**Chairs :** Richard Costello (Dublin 9, Ireland), Raquel Duarte (Porto, Portugal)

**14:45 Introduction**

**14:50 The need for clean air: asthma and allergy**  
Barbara Hoffmann (Düsseldorf, Germany)

**15:05 Air pollutants: mechanisms in the early origins of airway disease**  
Silvia Carraro (Padova (PD), Italy)

**15:20 Beyond heat stroke: effects of heat on health**  
Ana M Vicedo-Cabrera (Bern, Switzerland)

**15:35 Inhaled therapies: plastics, propellants, and pollutants**  
Omar S. Usmani (London, United Kingdom)

**15:50 Discussion and Q&A**

**Channel 4** **Session** **14:45 - 16:15****Oral presentation: The future of idiopathic pulmonary fibrosis**

**Aims :** This session includes the Best Abstract for Assembly 12, entitled "Results of a phase 2 study of GLPG1205 for idiopathic pulmonary fibrosis (PINTA)".

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

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

**Chairs :** Wim A Wuyts (Leuven, Belgium), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

**Channel 2** **Session** **14:45 - 16:15****Oral presentation: COVID-19: insights from respiratory physiotherapists**

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

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

**Chairs :** Chris Burtin (Diepenbeek, Belgium), Victoria Alcaraz Serrano (Barcelona, Spain)

**Channel 6** **Session** **14:45 - 16:15****Oral presentation: COVID-19 acute respiratory distress syndrome**

**Aims :** This session includes the Best Abstract for Assembly 2, entitled "Association between PEEP and VFD in COVID-19 ARDS".

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

**Method(s) :** Respiratory intensive care Epidemiology

**Chairs :** Christian Karagiannidis (Cologne, Germany), Ignacio Martin-Loeches (Dublin, Ireland)

**Channel 5** **Session** **14:45 - 16:15****Oral presentation: Mechanistic pathways in chronic and new lung diseases**

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

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

**Chairs :** Aurelie Fabre (Dublin 4, Ireland), Guillaume Beltramo (Dijon, France)

**Channel 3** **Session** **14:45 - 16:15****Oral presentation: Clinical trials in airway diseases: novel treatments and new evidence**

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

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

**Chairs :** Celeste Michala Porsbjerg (Copenhagen, Denmark), Alberto Papi (Ferrara, Italy)

**Studio Paris** **Session** **14:45 - 16:15****Lungs on fire: LoF Pulmonary vascular diseases?**

**Aims :** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

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

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

**Chairs :** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France), Sheila Ramjug (Altrincham, United Kingdom)

**Discussants :** Luke Howard (London, United Kingdom)

**14:45** **Introduction**

**14:50** **Presentation of cases by the session facilitator**  
Luke Howard (London, United Kingdom)

**Case 1 - Author: Elif Agaoglu, United Kingdom**

**Case 2 - Author: Shweta Anand, India**

**Case 3 - Author: Marta Alexandra Carvalho Da Silva, Portugal**

**Case 4 - Author: Nemsy Ella, Tunisia**

**16:10 Session wrap-up**

## Studio Barcelona Session 14:45 - 16:15

### State of the art session: Respiratory infections

#### Emerging challenges and opportunities in respiratory infections

**Aims :** To review the challenges and opportunities in respiratory infections, including antibiotics for pneumonia, bronchiectasis, antibiotic resistance and challenges for the upcoming decade; to discuss the available evidence and more recent recommendations regarding treatment and prevention of tuberculosis (TB).

**Disease(s) :** 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, Nurse, Patient, Physician in Pulmonary Training, Respiratory therapist

**Chairs :** Daiana Stolz (Basel, Switzerland), Tobias Welte (Hannover, Germany)

**14:45 Introduction**

**14:50 Bronchiectasis: state-of-the-art diagnostic and therapeutic approaches**  
Amelia Shoemark (Dundee (Angus), United Kingdom)

**15:05 Antibiotic resistance in respiratory infections: challenges and actions for the upcoming decade**  
Michal Shteinberg (Haifa, Israel)

**15:20 Has the time come to shorten TB treatment and TB preventive therapy?**  
Cécile Magis-Escurra (Nijmegen, Netherlands)

**15:35 The challenges of severe pneumonia: new pathogens, new drugs and new formulations**  
Michael S Niederman (New York, United States of America)

**15:50 Discussion and Q&A**

**15:30-16:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**SEE PAGE 1**

## Channel 1 Session 16:00 - 18:00

### Language session: Spanish/Portuguese programme 2021

#### A joint ERS/ALAT/ASSOBRAFIR/SBPT/SEPAR/SPP session

**Aims :** To review the relationship between chronic obstructive pulmonary disease and pulmonary embolism; to explain the relationship between sleep apnoea and cancer; to provide an update on the management of parapneumonic pleural effusions; to describe the evolution of the use of bronchoscopy in the era of COVID-19; to provide an update on pulmonary rehabilitation after overcoming COVID-19.

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

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

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

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

**Chairs :** Carlos Andres Jimenez Ruiz (Madrid, Spain), Irma De Godoy (BOTUCATU, Brazil), Mark Cohen Todd (Guatemala City, Guatemala), Daniel Da Cunha Ribeiro (Belo Horizonte (MG), Brazil), António Manuel Morais (Maia, Portugal)

**16:00 Introduction**

**16:05 Chronic obstructive pulmonary disease and pulmonary embolism**  
David Jiménez Castro (Madrid, Spain)

**16:20 Relationship between sleep apnoea and cancer**  
Miguel Ángel Martínez García (Valencia, Spain)



**16:35 Update on the management of parapneumonic pleural effusions**  
Lisete Ribeiro Teixeira (São Paulo (SP), Brazil)

**16:50 Discussion and Q&A**

**17:03 Bronchoscopy in the COVID-19 era**  
Fernando António Teixeira Guedes Rodrigues (Porto, Portugal)

**17:18 Acute management of COVID-19**  
Francisco Arancibia Hernandez (Santiago de Chile, Chile)

**17:33 Pulmonary rehabilitation after COVID-19**  
Vinicius Zacarias Maldaner Da Silva (Brasília (DF), Brazil)

**17:48 Discussion and Q&A**

## Studio Amsterdam

## Session

16:30 - 18:00

### Symposium: Digital health meets sleep breathing disorders

**Aims :** To provide a state-of-the-art overview of the growing role of digital health and telemedicine in the management of patients with different sleep breathing disorders; to describe the recent development of new technologies for diagnosis, treatment and follow-up of patients with sleep breathing disorders; to describe the optimal use of these new technologies and explain their cost-effectiveness; to describe the current and possible future roles of consumer technologies for patients with sleep breathing disorders; to explain the possibility of analysing big data derived using the telemedicine approach and to identify possible opportunities and risks.

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

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Vitalii Poberezhets (Vinnytsia, Ukraine), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

**16:30 Introduction**

**16:35 New technologies for diagnosis of obstructive sleep apnoea: the way to go?**  
Marie Bruyneel (Brussels, Belgium)

**16:50 Telemedicine for treatment and follow-up of patients with sleep breathing disorders**  
Jean-Louis Pépin (Grenoble, France)

**17:05 Evaluation of sleepiness: new available tools or still searching for the Holy Grail?**  
Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)

**17:20 Big data analysis in telemedicine in sleep: the European status, opportunities and pitfalls**  
Maria Bonsignore (Palermo, Italy)

**17:35 Discussion and Q&A**

## Studio London

## Session

16:30 - 18:00

### Symposium: Lung graft allocation and monitoring in the 21st century

**Aims :** To discuss lung graft allocation and monitoring in the 21st century.

**Disease(s) :** Thoracic oncology

**Method(s) :** Transplantation

**Tag(s) :** Clinical, Digital health

**Target audience :** Thoracic oncologist, Thoracic surgeon

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

**16:30 Introduction**

**16:35 Identification of lung transplant candidates, stratification of risk, lung allocation and quality control in Europe using real-time decision-making and big data: lessons learned and future perspectives**  
Jens Gottlieb (Hannover, Germany)

- 16:50** **The lung in a box: ex vivo monitoring of donor lungs and clinical implications for lung preservation, repair and utilisation**  
Chandima Divithotawela (Gaythorne (QLD), Australia)
- 
- 17:05** **Outcomes of telehealth care for lung transplant recipients**  
Cecilia Chaparro (Toronto (ON), Canada)
- 
- 17:20** **Digital imaging of small airways pathology after lung transplantation: past, present and future**  
Johny Verschakelen (Leuven, Belgium)
- 
- 17:35** **Discussion and Q&A**

## Studio Barcelona Session 16:30 - 18:00

### Grand round: Imaging grand round

#### Imaging of interstitial lung diseases in the era of digital health

**Aims :** To provide an update on the latest advances in interstitial lung disease (ILD) imaging with a focus on diagnosis and prevention of misdiagnosis; to provide an overview of multidisciplinary diagnosis of ILD and how imaging is integrated into this process in the era of digital health.

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

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

**Tag(s) :** Clinical

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

**Chairs :** Daiana Stolz (Basel, Switzerland), Tobias Welte (Hannover, Germany)

**16:30** **Introduction**

- 16:35** **Imaging of idiopathic pulmonary fibrosis based on case presentations: guidelines, pitfalls and prevention of misdiagnosis**  
Lucio Calandriello (Rome, Italy)

- 16:55** **Hypersensitivity pneumonitis: case-based imaging update**  
Sujal Desai (London, United Kingdom)

- 17:15** **Multidisciplinary diagnosis of ILD: the radiologist's perspective. Case presentations**  
Simon Walsh (London, United Kingdom)

- 17:35** **Case-based imaging of connective tissue disease-related lung disease**  
Anna Kerpel-Fronius (Budapest, Hungary)

**17:55** **Session wrap-up**

## Channel 3 Session 16:30 - 18:00

### Oral presentation: Best of paediatric physiology and sleep research

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

**Method(s) :** Imaging Epidemiology Public health Pulmonary function testing Physiology

**Chairs :** Refika Hamutcu Ersu (Ottawa, Canada), Enrico Lombardi (Florence, Italy)

## Channel 5 Session 16:30 - 18:00

### Oral presentation: New evidence from longitudinal asthma cohorts and other key studies

**Aims :** This session includes the Best Abstract for Assembly 6, entitled "Protection from childhood hay fever in farm environment".

**Disease(s) :** Airway diseases

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

**Chairs :** Guy Marks (Sydney (NSW), Australia), Vanessa Garcia-Larsen (Baltimore, United States of America)

## Channel 6 Session 16:30 - 18:00

### Oral presentation: Early manifestations of chronic respiratory disease: zooming in at the epithelial barrier

**Disease(s) :** Airway diseases Interstitial lung diseases**Method(s) :** Cell and molecular biology Epidemiology Imaging**Chairs :** H. Irene Heijink (Groningen, Netherlands), Sabine Bartel (Groningen, Netherlands)**Channel 2** Session 16:30 - 18:00**Oral presentation: Deep phenotyping of obstructive diseases for precision medicine****Disease(s) :** Airway diseases**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Cell and molecular biology Imaging  
Pulmonary function testing**Chairs :** Florence Schleich (Liège, Belgium), Guy Brusselle (Ghent, Belgium)**Channel 4** Session 16:30 - 18:00**Oral presentation: Bronchiectasis heterogeneity: assessing the endotypes****Disease(s) :** Airway diseases**Method(s) :** Cell and molecular biology General respiratory patient care Epidemiology Pulmonary function testing**Chairs :** Pieter Goeminne (Bornem, Belgium), Lucy Morgan (Sydney (NSW), Australia)**Studio Paris** Session 16:30 - 18:00**Respiratory medicine meets other disciplines: Pulmonary embolism: controversies in management****A joint ESC/ERS session****Aims :** To describe the interaction and involvement of cardiology and pulmonology specialities in the care of patients with pulmonary embolism or pulmonary hypertension. The novelties presented here are moving the field forward beyond the current guidelines, which were jointly developed by the European Society of Cardiology and European Respiratory Society.**Disease(s) :** Pulmonary vascular diseases**Method(s) :** General respiratory patient care Imaging Respiratory intensive care**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Radiologist**Chairs :** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France), Sheila Ramjug (Altrincham, United Kingdom)**16:30 Introduction****16:35 ESC/ERS position paper on optimal follow-up after acute pulmonary embolism**  
Erik Klok (Leiden, Netherlands)**16:50 Treatment and prevention of cancer-associated venous thromboembolism**  
Laurent Bertoletti (Saint Etienne Cedex, France)**17:05 Interventional treatment of pulmonary embolism: catheter-delivered local thrombolysis versus reduced-dose systemic thrombolysis**  
Luke Howard (London, United Kingdom)**17:20 Can right ventricle imaging improve risk stratification in pulmonary arterial hypertension?**  
Frances S. De Man (Amsterdam, Netherlands)**17:35 Discussion and Q&A****Studio Munich** Session 16:30 - 18:00**Journal session: Highlights from the JAMA Network on idiopathic pulmonary fibrosis, chronic obstructive pulmonary disease and lung cancer screening****A joint ERS/Journal of the American Medical Association (JAMA) session****Aims :** to provide an update on antibiotic therapy for idiopathic pulmonary fibrosis (IPF), management of refractory dyspnoea in patients with severe chronic obstructive pulmonary disease (COPD) and patient selection strategies for lung cancer screening with low-dose computed tomography (CT).**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

**Chairs :** Richard Costello (Dublin 9, Ireland), Raquel Duarte (Porto, Portugal)

- |              |  |
|--------------|--|
| <b>16:30</b> | <b>Introduction</b><br>George O'Connor (Boston, United States of America)  |
| <b>16:35</b> | <b>Role of the microbiome and antibiotic therapy in IPF</b><br>Andrew Wilson (Norwich (Norfolk), United Kingdom) |
| <b>16:50</b> | <b>Management of refractory dyspnoea in COPD</b><br>Daisy J.A. Janssen (Horn, Netherlands)                       |
| <b>17:05</b> | <b>Update on lung cancer screening with low-dose CT</b><br>Rafael Meza (Ann Arbor, United States of America)     |
| <b>17:20</b> | <b>Pulmonary embolism in patients with COPD</b><br>Francis Couturaud (Brest, France)                             |
| <b>17:35</b> | <b>Discussion and Q&amp;A</b>  |
| <b>17:55</b> | <b>Conclusions</b><br>George O'Connor (Boston, United States of America)   |

**17:30-18:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**SEE PAGE 1**

**18:15-19:45**

**INDUSTRY VIRTUAL SYMPOSIUM**

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**20:00-21:30**

**INDUSTRY VIRTUAL SYMPOSIUM**

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07:45-09:15

INDUSTRY VIRTUAL SYMPOSIUM

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08:00-08:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

09:00-09:45

INDUSTRY SKILLS LAB WORKSHOP

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Channel 1

Session

09:30 - 10:45

**Challenging clinical cases: CCC Respiratory critical care**

**Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussion among the case presenters and audience.

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

**Tag(s) :** Clinical

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

**Chairs :** Marieke L. Duiverman (Groningen, Netherlands), Christian Karagiannidis (Cologne, Germany)

**09:30 Introduction**

**09:35 Painful bulge over the chest wall**  
Pranav Ajmera (Pune, India)

**09:45 How to stop the bleed?**  
Titia P.E. Schaepman - Ruys (Amsterdam, Netherlands)

**09:55 A complex case of respiratory failure secondary to an unusual lung pathological finding in a patient with COVID-19**  
Eleanor Manners (London, United Kingdom)

**10:05 Cystic Lung Disease- Clinical and radiological details matter**  
Sivaraja Subramaniam (Thanjavur (Tamil Nadu), India)

**10:15 Dyspnoea after radiofrequency cardiac ablation: Respiratory prospect**  
Muhamamd Zubair Nasim (Derby, United Kingdom)

**10:25 Discussion and Q&A**

Studio London

Session

09:30 - 11:00

**Symposium: Highlights on gender and respiratory health****Implications for research, prevention and clinical management of respiratory diseases**

**Aims :** to discuss the epidemiology and impact of sex and gender on the main respiratory risk factors and diseases, specifically asthma, chronic obstructive pulmonary disease, lung cancer and smoking; to highlight the need to include gender issues in respiratory research and to address gender-specific approaches for prevention and clinical management of respiratory diseases and health policies.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Martijn A. Spruit (Horn, Netherlands), Charlotte Suppli Ulrik (Virum, Denmark)

**09:30 Introduction**

**09:35 Sex and hormonal influence on asthma phenotypes: the case in favour**  
Speaker to be confirmed

**09:50 Molecular and genetic mechanisms in gender issues**  
Catherine Greene (Dublin 9, Ireland)

**10:05 Spotlight on gender and lung cancer**  
Isabel Nerin De La Puerta (Zaragoza, Spain)

**10:20 Do we need a gender-specific approach for health interventions?**  
Sofia Belo Ravara (Covilhã, Portugal)

**10:35 Discussion and Q&A**

## Studio Amsterdam Session 09:30 - 11:00

### Symposium: New technologies for the management of children with respiratory diseases

**Aims :** To identify new sources of data (internet of things, environmental data, etc.) that are available and relevant for the management of respiratory diseases in children; to describe how these new big data are processed by different artificial intelligence methods; to explain how these new sources of data, processed by artificial intelligence, are leading to a new paradigm in the management of respiratory diseases in children; to describe the ethical issues associated with new digital-based management of respiratory diseases; to list the factors associated with the acceptance of digital-based management by families of children with respiratory diseases.

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland)

**09:30 Introduction**

**09:35 New sources of data in paediatric asthma: towards big data from multiple sources in children with asthma**  
Louise Fleming (London, United Kingdom)

**09:35 New uses of data: from big data to artificial intelligence and clinical decision tools in children with respiratory diseases**  
Konstantinos Exarchos (Ioannina, Greece)

**09:50 E-health and home monitoring: the views of patients and parents**

**10:05 A new paradigm for the management of children with cystic fibrosis at home: experiences from a Dutch cystic fibrosis clinic**  
Jolt Roukema (Nijmegen, Netherlands)

**10:20 Ethics, risks and patients' perspective of new technologies in the care of children with respiratory diseases**  
David Drummond (Paris, France)

**10:35 Discussion and Q&A**

## Channel 4 Session 09:30 - 11:00

### Oral presentation: Nursing perspective during the COVID-19 pandemic

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

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

**Chairs :** Marco Clari (TORINO, Italy), Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom)

## Channel 6 Session 09:30 - 11:00

### Oral presentation: Imaging

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

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

**Chairs :** Chair to be confirmed

## Channel 2 Session 09:30 - 11:00

### Oral presentation: Asthma treatment: clinical and translational science



**Disease(s) :** Airway diseases**Method(s) :** Cell and molecular biology General respiratory patient care Pulmonary function testing Endoscopy and interventional pulmonology Epidemiology**Chairs :** Paola Rogliani (Roma (RM), Italy), Chair to be confirmed**Channel 3** Session 09:30 - 11:00

## Oral presentation: Adult cystic fibrosis

**Disease(s) :** Airway diseases**Method(s) :** Cell and molecular biology General respiratory patient care Transplantation Epidemiology**Chairs :** Pierre-Régis Burgel (Paris, France), Chair to be confirmed**Channel 5** Session 09:30 - 11:00

## Oral presentation: Novel insights into the diagnosis, mechanism and treatment of malignant pleural disease

**Disease(s) :** Thoracic oncology**Method(s) :** Cell and molecular biology Physiology Endoscopy and interventional pulmonology**Chairs :** Rachele Asciani (Attard, Malta), Christian B. Laursen (Odense, Denmark)**Studio Paris** Session 09:30 - 10:45

## Primary care session: Part I: restarting COPD care in the post-COVID era

## Strategies to improve care of chronic obstructive pulmonary disease patients in the face of limitations and barriers in the post-COVID era

**Aims :** to provide an overview of and a discussion forum for important issues relating to the management of asthma and chronic obstructive pulmonary disease (COPD) after the COVID-19 pandemic; to present new approaches for managing patients in primary care during the COVID-19 pandemic; to invite feedback from the audience.**Disease(s) :** Airway diseases**Method(s) :** General respiratory patient care Public health**Tag(s) :** Clinical, COVID, Digital health**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient**Chairs :** Miguel Román Rodríguez (Palma De Mallorca, Spain), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Marion Delcroix (Leuven, Belgium)**09:30 Introduction****09:35 Which are the best methods to manage COPD patients in the post-COVID era?**  
Noel Baxter (London, United Kingdom)**09:50 Are we selecting the right inhaler for the right COPD patient?**  
Janwillem W. H. Kocks (Groningen, Netherlands)**10:05 Should primary care physicians be monitoring eosinophils in COPD patients?**  
Núria Toledo Pons (Palma De Mallorca, Spain)**10:20 Discussion and Q&A****Studio Barcelona** Session 09:30 - 11:00

## State of the art session: Interstitial lung diseases

## Novel insights into interstitial lung diseases in 2021

**Aims :** To discuss novel insights into the field of interstitial lung diseases (ILDs), including areas where scientific and therapeutic changes are ongoing or task forces reports and guidelines are pending.**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology**Method(s) :** Cell and molecular biology Imaging**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist**Chairs :** Katerina Antoniou (Heraklion, Greece), Carlos Robalo Cordeiro (Coimbra, Portugal), Tiago Alfaro (Coimbra, Portugal)

**09:30 Introduction****09:35 Familial pulmonary fibrosis**  
Coline H. M. van Moorsel (Nieuwegein, Netherlands)**09:50 What can ILD registries teach us?**  
Andreas Guenther (Gießen, Germany)**10:05 Progressive fibrosing ILDs**  
Martin Kolb (Hamilton (ON), Canada)**10:20 Langerhans cell histiocytosis: is it an ILD?**  
Abdellatif Tazi (Paris, France)**10:35 Discussion and Q&A****Skills lab** **Session** **10:00 - 12:00****Skills lab: Respiratory sleep**

**Aims :** To explain the indications and equipment for in-hospital polysomnography; to give an overview for the use of new technologies and available tools for respiratory home monitoring; to show how to interpret the results of distance monitoring in different Sleep Disordered Breathing cases; to provide algorithms for PaP/NIV telemonitoring towards effective resolution of symptoms, to improve comorbidities, early identification of residual symptoms as well as for rehabilitation programmes.

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

**Method(s) :** Epidemiology Physiology Respiratory intensive care

**Tag(s) :** Clinical

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

**Chairs :** Sophia E. Schiza (Heraklion, Greece), Anita Simonds (London, United Kingdom)

**10:00 Introduction**  
Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)**10:05 Polysomnography: indications and interpretation**  
Johan Verbraecken (Edegem (Antwerp), Belgium)**10:30 Home sleep studies: indications and interpretation**  
Thomas Penzel (Berlin, Germany)**10:55 PAP telemonitoring and residual apnea-hypopnea index/symptoms: clinical cases and impact for follow-up management**  
Renaud Tamisier (Grenoble, France)**11:20 Home monitoring in patients with neuromuscular disorders from diagnosis to non-invasive ventilation initiation to rehabilitation programmes**  
Marieke L. Duiverman (Groningen, Netherlands), Michelle Chatwin (London, United Kingdom)**11:45 Discussion**  
Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)**Studio Paris** **Session** **10:55 - 12:10****Primary care session: Part II: restarting asthma care in the post-COVID era**  
**An opportunity to improve asthma monitoring and self-management in primary care**

**Aims :** To provide an overview of and a discussion forum for important issues relating to the management of asthma and chronic obstructive pulmonary disease after the COVID-19 pandemic; to present new approaches for managing patients in primary care during the COVID-19 pandemic; to invite feedback from the audience.

**Disease(s) :** Airway diseases

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

**Tag(s) :** Clinical, COVID, Digital health

**Target audience :** General practitioner, Nurse, Patient, Adult pulmonologist/Clinician, Medical Student, Paediatrician

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



**10:55 Introduction****11:00 Remote consultations to monitor asthma in primary care**  
Hanna Sandelowsky (Vendelso, Sweden)**11:15 What is the best way to engage people with asthma in self-management?**  
Viv Marsh (Bridgnorth, United Kingdom)**11:30 Interventions to reduce hospital admissions and asthma crisis**  
Noel Baxter (London, United Kingdom)**11:45 Discussion and Q&A****Studio London****Session****11:15 - 12:45****Symposium: Sarcopenia in chronic respiratory disease: new definitions, assessment and treatment options****Aims :** To describe the concept of sarcopenia in chronic respiratory disease and its importance to maintain and/or optimise the benefits of pulmonary rehabilitation; to describe the assessment of sarcopenia in chronic respiratory disease; to describe how to implement and assess the treatment options for sarcopenia in chronic lung disease; to describe the effects of sarcopenia on patients undergoing pulmonary rehabilitation.**Disease(s) :** Airway diseases Thoracic oncology**Method(s) :** General respiratory patient care Physiology 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, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Respiratory therapist**Chairs :** Martijn A. Spruit (Horn, Netherlands), Charlotte Suppli Ulrik (Virum, Denmark)**11:15 Introduction****11:20 Update on recent definitions and diagnosis of sarcopenia**  
Gulistan Bahat (Istanbul, Turkey)**11:35 Malnutrition and sarcopenia assessment**  
Annemie Schols (Maastricht, Netherlands)**11:50 Underlying mechanisms and pharmacological approaches for treatment of sarcopenia**  
Speaker to be confirmed**12:05 Modalities of pulmonary rehabilitation, including exercise training for sarcopenia in chronic lung disease**  
Matthew Maddocks (London, United Kingdom)**12:20 Discussion and Q&A****Studio Amsterdam****Session****11:15 - 12:45****Symposium: Wheezing illnesses along the life span****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**Method(s) :** Cell and molecular biology General respiratory patient care Physiology**Tag(s) :** Translational , Digital health, Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Journalist**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland)**11:15 Introduction****11:20 Can phenotype and endotype discovery be translated to the clinic?**  
Adnan Custovic (London, United Kingdom)

**11:35** **Biologics: current use and future applications for personalised therapy**  
Els J.M. Weersink (Amsterdam, Netherlands)

**11:50** **Time to ban short-acting -agonists and use anti-inflammatory treatment as required to improve outcomes**  
Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy)

**12:05** **The pro's and con's of remote monitoring and telemedicine**  
Theresa Guilbert (Cincinnati, United States of America)

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

## Studio Munich Session 11:15 - 12:45

### Symposium: Digital transformation in practice: enabling next-generation medicine

**Aims :** To present an initiative for personalised medicine using new medical technologies; to discuss the implementation of digital resources to improve the care of respiratory patients.

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

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

**Tag(s) :** Clinical, COVID, Digital health

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Technical Assistant, Nurse, Patient

**Chairs :** Marc Miravittles (Barcelona (CT), Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain)

**11:15** **Introduction**

**11:20** **The Catalan open innovation hub on ICT-supported integrated care services**  
Carme Hernandez Carcereny (Barcelona, Spain)

**11:35** **Turning the crisis into an opportunity: digital health strategies deployed during the COVID-19 outbreak**  
Jordi Piera (Barcelona, Spain)

**11:50** **Computational challenges of personalised medicine: from bench to bedside**  
Kristel Van Steen (Liege, Belgium)

**12:05** **Implementation of digitally enabled integrated person-centred care across Europe**  
Filip Domanski (Brussels, Belgium)

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

## Channel 5 Session 11:15 - 12:45

### Oral presentation: New trends in non-invasive respiratory support

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

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

**Chairs :** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Sarah Bettina Schwarz (Köln, Germany)

## Channel 2 Session 11:15 - 12:45

### Oral presentation: Patient-reported outcome measures (PROMs): easy tools in the management of chronic respiratory diseases

**Aims :** This session includes the Best Abstract for Assembly 5, entitled "The Leicester Cough Questionnaire in two phase 3 trials of gefapixant in chronic cough".

**Disease(s) :** Airway diseases

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

**Chairs :** Iñigo Ojanguren Arranz (Barcelona, Spain), Chair to be confirmed

## Channel 3 Session 11:15 - 12:45

### Oral presentation: Advances in treatment and management of tuberculosis and nontuberculous mycobacterial disease

**Aims :** This session includes the Best Abstract for Assembly 10, entitled "New definitions of extensively drug resistant tuberculosis: update from the World Health Organization".

**Method(s)** : Public health General respiratory patient care Imaging**Chairs** : Chair to be confirmed**Channel 4** **Session** **11:15 - 12:45****Oral presentation: Paediatric lung disease: novel mechanisms, methods and translational studies****Disease(s)** : **Airway diseases****Method(s)** : Cell and molecular biology Imaging Physiology Pulmonary function testing**Chairs** : Ivana Mižíková (Cologne, Germany), Miguel Angel Alejandro Alcázar (Köln, Germany)**Studio Barcelona** **Session** **11:15 - 12:45****Lungs on fire: LoF Interstitial lung diseases?****Aims** : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**Disease(s)** : **Interstitial lung diseases****Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Physician in Pulmonary Training, Nurse, Radiologist, Pathologist, Thoracic oncologist, Medical Student**Chairs** : Katerina Antoniou (Heraklion, Greece), Carlos Robalo Cordeiro (Coimbra, Portugal), Tiago Alfaro (Coimbra, Portugal)**Discussants** : Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)**11:15** **Introduction****11:20** **Presentation of cases by the session facilitator**  
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)**Case 1 - Author: Mário Alexandre Oliveira Pinto, Portugal****Case 2 - Author: Sophie Cottin, Belgium****Case 3 - Author: Johad Khoury, Israel****Case 4 - Author: Wallace Wee, Canada****12:40** **Session wrap-up****Channel 1** **Session** **11:15 - 12:45****Joint session: Updates on inhalers for COPD and asthma****A joint ERS/Industry session****Chairs** : Frans H.C. De Jongh (Enschede, Netherlands)**11:15** **Introduction****11:20** **How to choose and use an inhaler device?**  
Omar S. Usmani (London, United Kingdom)**11:40** **How to monitor and improve inhaler technique?**  
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)**12:00** **How to assess and improve inhaler adherence?**  
David Price (Singapore, Singapore)**12:20** **Panel discussion**  
Omar S. Usmani (London, United Kingdom), Henry Chrystyn (Bingley (West Yorkshire), United Kingdom), David Price (Singapore, Singapore)**Studio Paris** **Session** **12:20 - 13:00****Pro-Con debate: The current classification of pulmonary hypertension meets clinical practice**

**Aims :** To identify strengths and weaknesses of the current pulmonary arterial hypertension (PAH) classification; to discuss 1) how the altered phenotype of pulmonary arterial hypertension fits in the classification; to discuss comorbidities and multiple causes of pulmonary hypertension (PH); to discuss novel biological insights which might or might not be useful to be included in the current classification.

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

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

**Tag(s) :** Clinical

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

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

12:20 Introduction

12:22 **Pro: The current classification of pulmonary hypertension meets clinical practice**  
David Montani (Le Kremlin-Bicêtre, France)

12:34 **Con: The current classification of pulmonary hypertension meets clinical practice**  
Harm Jan Bogaard (Amsterdam, Netherlands)

12:46 Discussion and Q&A

## Skills lab Session 12:50 - 15:00

### Skills lab: Thoracic ultrasound

**Aims :** To demonstrate the current use of thoracic ultrasound and to provide participants with the practical case examples with expert commentary.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

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

12:50 **Introduction**  
Najib M. Rahman (Oxford, United Kingdom), Christian B. Laursen (Odense, Denmark)

13:00 **Live demonstration: Chest wall & parietal pleura**  
Najib M. Rahman (Oxford, United Kingdom)

13:20 **Live demonstration: Focused assessment of the lung & heart**  
Christian B. Laursen (Odense, Denmark)

13:40 **Thoracic ultrasound for assessing and monitoring patients with acute respiratory distress syndrome**  
Speaker to be confirmed

14:00 **Transthoracic ultrasound guided biopsies**  
Rocco Trisolini (Bologna (BO), Italy)

14:20 **Contrast enhanced thoracic ultrasound**  
Niels Jacobsen (Odense M, Denmark)

14:40 **Thoracic ultrasound for monitoring patients following pleurodesis**  
Maged Hassan (Alexandria, Egypt), Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)

13:00-14:30

INDUSTRY VIRTUAL SYMPOSIUM

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## Pre-congress content Session 13:15 - 14:15

Thematic poster: Convex probe endobronchial ultrasound and radial probe endobronchial ultrasound

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

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

**Chairs :** Felix J.F. Herth (Heidelberg, Germany), Chair to be confirmed

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Treatments for airway diseases**

**Disease(s) :** Airway diseases

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

**Chairs :** Chin Kook Rhee (Seoul, Republic of Korea), Carolina Maria Gotera Rivera (Madrid, Spain)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Physical activity, exercise training and (tele)rehabilitation in respiratory patients**

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

**Method(s) :** Pulmonary rehabilitation General respiratory patient care Epidemiology Transplantation Respiratory intensive care Pulmonary function testing

**Chairs :** Carlos Augusto Marcal Camillo (Londrina (PR), Brazil), Ana Oliveira (Hamilton, Canada)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Pneumonia**

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

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

**Chairs :** Adrian Ceccato (barcelona, Spain), Catia Cilloniz Campos (Barcelona, Spain)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Acute non-invasive respiratory therapies in COVID-19 and beyond**

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

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

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

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Pathogenic progress in airway diseases**

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

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

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

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Environment and air pollution**

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

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

**Chairs :** Aneesa Vanker (Cape Town, South Africa), Chair to be confirmed

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Therapy of lung cancer**

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

**Method(s) :** General respiratory patient care Pulmonary function testing Cell and molecular biology Public health Pulmonary rehabilitation Epidemiology Surgery Endoscopy and interventional pulmonology Palliative care Imaging

**Chairs :** Armin Frille (Leipzig, Germany), Susanne Lang (Jena, Germany)

**Pre-congress content** **Session** **13:15 - 14:15**

**Thematic poster: Epidemiology and burden of tuberculosis and other lung diseases**

**Disease(s)** : Airway diseases Respiratory critical care Thoracic oncology**Method(s)** : Epidemiology Public health General respiratory patient care Cell and molecular biology**Chairs** : Chair to be confirmed**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Lung function testing in the management of obstructive diseases****Disease(s)** : Airway diseases**Method(s)** : Pulmonary function testing General respiratory patient care Public health Imaging Epidemiology Physiology**Chairs** : Eric Derom (Ghent, Belgium), Chair to be confirmed**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Pulmonary neoplasia and related pathologies****Disease(s)** : Airway diseases Respiratory critical care Thoracic oncology Interstitial lung diseases**Method(s)** : Imaging Epidemiology Pulmonary function testing Endoscopy and interventional pulmonology General respiratory patient care**Chairs** : Anand Devaraj (London, United Kingdom)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Early-life infections, wheezing and asthma****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Epidemiology Cell and molecular biology Endoscopy and interventional pulmonology Pulmonary function testing Physiology Imaging**Chairs** : Samatha Sonnappa (London, United Kingdom), Nicola Ullmann (Roma (RM), Italy)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Inhaled treatments for COPD: real-world data****Disease(s)** : Airway diseases Pulmonary vascular diseases**Method(s)** : General respiratory patient care Pulmonary function testing Epidemiology Respiratory intensive care Public health**Chairs** : Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Chair to be confirmed**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Mechanical ventilation and weaning****Disease(s)** : Respiratory critical care Sleep and breathing disorders Interstitial lung diseases**Method(s)** : Respiratory intensive care General respiratory patient care Epidemiology Physiology Imaging**Chairs** : Friederike Sophie Magnet (Köln, Germany), Martin Dres (Paris, France)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Health effects of tobacco and medical professionals****Disease(s)** : Airway diseases Sleep and breathing disorders Thoracic oncology**Method(s)** : Public health Pulmonary function testing Epidemiology General respiratory patient care Physiology**Chairs** : Sofia Belo Ravara (Covilhã, Portugal), Asl Görek Dilekta 1 (Bursa, Turkey)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Fungi, viruses, parasites and the immunocompromised****Disease(s)** : Respiratory critical care**Method(s)** : General respiratory patient care Public health Endoscopy and interventional pulmonology Cell and molecular biology Surgery Transplantation Respiratory intensive care Imaging Epidemiology**Chairs** : Sanjay Haresh Chotirmall (Singapore, Singapore), Anand Shah (London, United Kingdom)**Pre-congress content** **Session** **13:15 - 14:15****Thematic poster: Management of chronic cough and obstructive diseases**



**Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Respiratory intensive care Palliative care Pulmonary rehabilitation Epidemiology Pulmonary function testing Cell and molecular biology Endoscopy and interventional pulmonology Physiology Public health Surgery**Chairs** : Paul Marsden (Manchester (Greater Manchester), United Kingdom), Lowie G.W. Vanfleteren (Gothenburg, Sweden)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Epidemiological aspects of tuberculosis****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Epidemiology Public health Pulmonary function testing**Chairs** : Lorenzo Guglielmetti (Paris, France), Chair to be confirmed**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Occupational rhinitis and asthma****Disease(s)** : Airway diseases**Method(s)** : General respiratory patient care Epidemiology Public health Physiology Imaging Cell and molecular biology Pulmonary function testing**Chairs** : Joaquin Sastre Dominguez (Tres Cantos (Madrid), Spain), Orianne Dumas (Villejuif, France)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Therapy of pulmonary hypertension****Disease(s)** : Pulmonary vascular diseases**Method(s)** : Physiology General respiratory patient care Pulmonary function testing Imaging Respiratory intensive care Palliative care Epidemiology**Chairs** : Sheila Ramjug (Altrincham, United Kingdom), Athénaïs Boucly (Le Kremlin Bicêtre, France)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: From phenotyping to different diagnostic tools for sleep breathing disorders****Disease(s)** : Sleep and breathing disorders Airway diseases**Method(s)** : General respiratory patient care Pulmonary function testing Physiology Epidemiology Imaging Pulmonary rehabilitation**Chairs** : Simon Dominik Herkenrath (Köln, Germany), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Future advances in respiratory physiology****Disease(s)** : Airway diseases Sleep and breathing disorders**Method(s)** : Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Physiology**Chairs** : Max Thomas (Birmingham, United Kingdom), Rachel Ong-Salvador (Amsterdam, Netherlands)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Rare thoracic surgical disease and the chest wall****Disease(s)** : Thoracic oncology Interstitial lung diseases Respiratory critical care Airway diseases**Method(s)** : Surgery General respiratory patient care Imaging Respiratory intensive care Cell and molecular biology**Chairs** : Marco Nardini (Uxbridge, United Kingdom), Cagatay Tezel (Istanbul, Turkey)**Pre-congress content** **Session** 13:15 - 14:15**Thematic poster: Pulmonary rehabilitation in clinical conditions****Disease(s)** : Airway diseases Thoracic oncology Interstitial lung diseases Respiratory critical care Sleep and breathing disorders**Method(s)** : Pulmonary rehabilitation Pulmonary function testing Physiology General respiratory patient care Palliative care Surgery Respiratory intensive care Public health**Chairs** : Leona Dowman (Melbourne, Australia), Claire Andrejak (Amiens, France)



## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Environmental and lifestyle impacts on chronic lung disease

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Gwenda Vasse (Groningen, Netherlands), Tania Maes (Ghent, Belgium)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Insights into rehabilitation and physiotherapy in COVID-19

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Inga Jarosch (Schönau am Königssee, Germany), Jana De Brandt (Diepenbeek, Belgium)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Acute paediatric respiratory infections

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Refiloe Masekela (Pretoria, South Africa), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Paediatric asthma and bronchopulmonary dysplasia

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

Chairs : Liesbeth Duijts (Rotterdam, Netherlands), David Lo (Leicester, United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Asthma and COPD meets COVID-19: new diagnostic tools and results from clinical trials

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

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

Chairs : Alberto Papi (Ferrara, Italy), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Interstitial lung disease, COVID-19 and friends

Disease(s) : Interstitial lung diseases Respiratory critical care

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

Chairs : Antje Prasse (Hannover, Germany), Martina Bonifazi (Ancona (AN), Italy)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Immunological and molecular characterisation of tuberculosis disease and infection

Disease(s) : Pulmonary vascular diseases

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

Chairs : Igor Mokrousov (St. Petersburg, Russian Federation), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Bronchiectasis and pleural infection

Disease(s) : Airway diseases

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

Chairs : Melissa McDonnell (Oranmore (Co Galway), Ireland), Josje Altenburg (Amsterdam (NH), Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Back to infection basics

Disease(s) : Airway diseases

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

Chairs : Amelia Shoemark (Dundee (Angus), United Kingdom), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: In vitro modelling of lung disease: reach out to the next dimension

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology Imaging

Chairs : Darcy Wagner (Lund, Sweden), Anne M. van der Does (Leiden, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Bronchiectasis

Disease(s) : Airway diseases

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

Chairs : Holly Rachael Keir (Dundee (Angus), United Kingdom), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Clinical effects of CFTR modulatory therapy and lung inflammation in children with cystic fibrosis

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Mirjam Stahl (Berlin, Germany), Paul Robinson (Sydney (NSW), Australia)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Comorbidities in airway obstructive diseases

Disease(s) : Airway diseases

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

Chairs : Lucia Cestelli (Bergen, Norway), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Prognostic markers of disease progression in non-idiopathic pulmonary fibrosis interstitial lung diseases

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Pharmacology of airway diseases: clinical and laboratory studies

Disease(s) : Airway diseases Respiratory critical care

Method(s) : Pulmonary rehabilitation Cell and molecular biology Endoscopy and interventional pulmonology Public health

Chairs : Andrew Higham (Manchester (Greater Manchester), United Kingdom), Gaetano Caramori (Messina (ME), Italy)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: New approaches to pulmonary rehabilitation and chronic care

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

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

Chairs : Audrey Borghi Silva (São Carlos (SP), Brazil), Anja Frei (Zürich, Switzerland)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Lung disease burden and management

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

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

Chairs : Giovanni Viegi (Pisa (PI), Italy), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Sleep across the lifespan in the new era of COVID - 19

Disease(s) : Sleep and breathing disorders

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

Chairs : Stefan Mihaicuta (Timisoara (Timis), Romania), Maria Bonsignore (Palermo, Italy)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Clinical evolution, management and outcomes of patients with rare diffuse parenchymal lung diseases

Disease(s) : Interstitial lung diseases

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

Chairs : Olga Torre (Milano (MI), Italy), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Exercise tolerance, supportive care and more in non-pulmonary fibrosis interstitial lung diseases

Disease(s) : Interstitial lung diseases

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

Chairs : Yet Hong Khor (Melbourne (VIC), Australia), Fabrizio Luppi (Modena, Italy)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Screening, diagnosis, management and prognosis of lung cancer

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Fernando Gamarra (Straubing, Germany)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: An update on respiratory physiotherapy and respiratory muscle function and training

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

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

Chairs : Abraham Samuel Babu (Manipal (Karnataka), India), Michelle Chatwin (London, United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Cystic fibrosis

Disease(s) : Airway diseases

Method(s) : Imaging Cell and molecular biology General respiratory patient care Endoscopy and interventional pulmonology Transplantation Pulmonary rehabilitation

Chairs : Predrag Minic (Beograd, Republic of Serbia), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Innovations in nurse-led interventions in respiratory diseases

**Disease(s) :** Airway diseases Thoracic oncology Pulmonary vascular diseases**Method(s) :** General respiratory patient care Pulmonary rehabilitation Epidemiology Public health Imaging**Chairs :** Marco Clari (TORINO, Italy), Maria Granados Santiago (Alcaudete, Spain)**Channel 1****Session****14:35 - 15:50****Challenging clinical cases: CCC Interstitial lung diseases****Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in interstitial lung disease area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.**Disease(s) :** Interstitial lung diseases**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Radiologist, Nurse**Chairs :** Hilario Nunes (Bobigny, France), Elisabetta Renzoni (London, United Kingdom)**14:35 Introduction****14:40 A paucisymptomatic sandstorm?**  
Gioconda Gabriela Narvaez Ludeña (Sabadell, Spain)**14:50 A difficult case of acute lung injury**  
Silvia Puglisi (Catania (CT), Italy)**15:00 Cysts and systemic findings: think about rare diseases**  
Andrei Darie (Basel, Switzerland)**15:10 Are electronic cigarettes the real solution to quit smoking?**  
Fatima Andres Franch (Sueca (Valencia), Spain)**15:20 A case with a loaded answer**  
Karen Czischke Ljubetic (Santiago, Chile)**15:30 Discussion and Q&A****Studio Barcelona****Session****14:45 - 16:15****Symposium: Precision medicine in asthma and COPD****Aims :** To provide an update on the latest findings regarding precision medicine in asthma and chronic obstructive pulmonary disease (COPD).**Disease(s) :** Airway diseases**Method(s) :** Cell and molecular biology Imaging Physiology**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 :** Apostolos Bossios (Stockholm, Sweden), Louise Donnelly (London, United Kingdom)**14:45 Introduction****14:50 Patient's perspective**  
Niamh Cullen (, Ireland)**14:55 Complex and multifaceted physiology of asthma and COPD**  
Richard Costello (Dublin 9, Ireland)**15:10 Diagnosing asthma in the era of personalised medicine: biology, physiology and imaging**  
Daiana Stolz (Basel, Switzerland)**15:25 Linking phenotypes to personalised treatments in asthma and COPD**  
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)**15:40 Multidisciplinary teamwork and care pathways for managing the eosinophilic burden in airway diseases, from asthma to COPD and chronic cough**  
Vanessa M. McDonald (Newcastle (NSW), Australia)

15:55 Discussion and Q&amp;A

**Studio Amsterdam** Session 14:45 - 16:15**Hot topics: Digital innovations in tuberculosis and implementation research in the era of COVID-19: collaborative activities between the WHO and ERS**

**Aims :** To describe the consequences of COVID-19 for tuberculosis (TB) care worldwide; to review the available digital adherence technologies for TB; to evaluate the attitudes of patients and medical staff toward digital health in TB management; to discuss the potential of the Implementation Research for Digital Technologies and TB toolkit.

**Disease(s) :** Respiratory infections

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

**Tag(s) :** Translational , COVID, Digital health

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Radiologist, Scientist (basic, translational), Journalist

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Vitalii Poberezhets (Vinnytsia, Ukraine)

14:45 Introduction

14:50 Tuberculosis care during the COVID-19 pandemic  
Giovanni Battista Migliori (Varese (VA), Italy)

15:05 Adherence to treatment for tuberculosis in the digital era  
Helen Stagg (Edinburgh, United Kingdom)

15:20 The Implementation Research for Digital Technologies and TB (IR4DTB) toolkit  
Corinne Merle (Geneva, Switzerland)

15:35 Future of eHealth in TB management: perspectives of patients and medical staff  
Onno Akkerman (Groningen, Netherlands)

15:50 Discussion and Q&amp;A

**Channel 4** Session 14:45 - 16:15**Oral presentation: Tobacco and nicotine research during the pandemic**

**Disease(s) :** Airway diseases

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

**Chairs :** Elif Dagli (Istanbul, Turkey), Stamatoula Tsikrika (Athens, Greece)

**Channel 3** Session 14:45 - 16:15**Oral presentation: Advances in childhood asthma: biologics, biomarkers and infections**

**Aims :** This session includes the Best Abstract for Assembly 7, entitled "Bronchial remodeling-based latent class analysis predicts exacerbations in severe preschool wheezers".

**Disease(s) :** Airway diseases

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

**Chairs :** Sejal Saglani (London, United Kingdom), Valentina Fainardi (Parma (PR), Italy)

**Channel 6** Session 14:45 - 16:15**Oral presentation: Innovation in thoracic surgery**

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

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

**Chairs :** Marcello Migliore (Catania (CT), Italy), Kalliopi Athanassiadi (Athens, Greece)

**Channel 2** Session 14:45 - 16:15**Oral presentation: New insights into the pathophysiology and prognosis of COPD**



**Disease(s) :** Airway diseases Pulmonary vascular diseases**Method(s) :** General respiratory patient care Imaging Physiology Pulmonary function testing Pulmonary rehabilitation Epidemiology**Chairs :** Pierantonio Laveneziana (Paris, France), Georgios Kaltsakas (Athens, Greece)**Channel 5** **Session** **14:45 - 16:15****Oral presentation: Insights into pulmonary embolism****Disease(s) :** Pulmonary vascular diseases Airway diseases Respiratory critical care**Method(s) :** General respiratory patient care Physiology Cell and molecular biology Epidemiology Respiratory intensive care Imaging**Chairs :** Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)**Studio Paris** **Session** **14:45 - 16:15****Lungs on fire: LoF Lung cancer?****Aims :** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**Disease(s) :** Thoracic oncology Respiratory infections**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 :** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland), Georgia Hardavella (Athens, Greece)**Discussants :** Sam Janes (London, United Kingdom)**14:45 Introduction****14:50 Presentation of cases by the session facilitator**  
Sam Janes (London, United Kingdom)**Case 1 - Author: Joyce Chan, Hong Kong****Case 2 - Author: Mike Ralki, Belgium****Case 3 - Author: Kathryn Ryan, United Kingdom****Case 4 - Author: Tadeusz Marczewski, Germany****16:10 Session wrap-up****Studio Munich** **Session** **14:45 - 16:15****State of the art session: Respiratory critical care****Aims :** To describe the role of lung ultrasound in diagnosis of acute respiratory failure; to list sub-phenotypes of acute respiratory distress syndrome and their therapeutic consequences; to identify patients with acute respiratory distress syndrome that may benefit from steroid treatment and to discuss appropriate dosing of steroids in these patients; to discuss the diagnostic approach in patients with suspected pulmonary fungal infection and to propose a treatment strategy in patients with confirmed fungal infection.**Disease(s) :** Interstitial lung diseases Respiratory critical care Respiratory infections**Method(s) :** General respiratory patient care Imaging Respiratory intensive care**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist**Chairs :** Marcus Schultz (Amsterdam, Netherlands), Sophia E. Schiza (Heraklion, Greece), Maxime Patout (Mont-Saint Aignan, France)**14:45 Introduction****14:50 Lung ultrasound in acute respiratory care**  
Pieter Roel Tuinman (Amsterdam, Netherlands)

- 15:05 Phenotypes of acute respiratory distress syndrome**  
Lorraine Ware (Nashville, United States of America)
- 
- 15:20 Corticosteroids in acute respiratory distress syndrome**  
Jesus Villar (Las Palmas de Gran Canaria, Spain)
- 
- 15:35 Pulmonary fungal infections in mechanically ventilated patients**  
Frank Van de Veerdonk (Nijmegen, Netherlands)
- 
- 15:50 Discussion and Q&A**

**Studio London****Session****14:45 - 16:15****Journal session: The best of the European Respiratory Journal 2021**

**Aims :** To highlight the best original research and series in translational and basic science as well as airway disease published in the flagship journal of the European Respiratory Society; to highlight the contribution of the European Respiratory Journal (ERJ) to COVID-19 and respiratory infections; to highlight the highest impact guidelines, reviews and original contributions.

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

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

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

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

**Chairs :** Thierry Troosters (Leuven, Belgium), Mina Gaga (Athens, Greece)

- 14:45 Introduction**  
Martin Kolb (Hamilton (ON), Canada)
- 
- 14:50 The best papers in the ERJ: translational Science**  
Silke Meiners (München, Germany)
- 
- 15:05 The best papers in the ERJ: airways disease**  
Dave Singh (Manchester, United Kingdom)
- 
- 15:20 The best papers in the ERJ: clinical practice**  
Anh Tuan Dinh-Xuan (Paris, France)
- 
- 15:35 The best papers in the ERJ: respiratory infections and COVID-19**  
Daiana Stolz (Basel, Switzerland)
- 
- 15:50 Discussion and Q&A**
- 
- 16:10 Conclusions**  
Martin Kolb (Hamilton (ON), Canada)

**Channel 1****Session****16:00 - 18:00****Language session: Russian programme 2021****Sarcoidosis today: from old truths to new problems (a joint ERS/RRS/ARSRM session)**

**Aims :** To discuss the diagnosis and treatment of sarcoidosis in different countries; to consider the effectiveness of minimally invasive and image-based diagnostics; to present the recommendations of the Russian Respiratory Society for the diagnosis and treatment of sarcoidosis.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Radiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Alexander Vigel (Kazan (Republic of Tatarstan), Russian Federation), Daniel Culver (Cleveland, United States of America)

- 16:00 Introduction**
- 
- 16:05 Sarcoidosis as a multidisciplinary problem**  
Daniel Culver (Cleveland, United States of America)



- 16:20** **Image-based diagnosis of sarcoidosis**  
Igor Tyurin (Moscow, Russian Federation)
- 
- 16:35** **Quality of life and fatigue in sarcoidosis**  
Marjolein Drent (Ede, Netherlands)
- 
- 16:50** **Minimally invasive diagnosis of sarcoidosis**  
Ilya Sivokozov (Moscow, Russian Federation)
- 
- 17:05** **The problem of fibrosis in sarcoidosis**  
Athol Wells (London, United Kingdom)
- 
- 17:20** **Treatment of sarcoidosis: clinical guidelines of the Russian Respiratory Society**  
Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation)
- 
- 17:35** **Discussion and Q&A**

## Studio Barcelona Session 16:30 - 18:00

### Symposium: Pharmacology of lung immune responses: which pathways to target!

**Aims :** To explain the complexity of lung immune responses and its contribution to airway diseases such as asthma and chronic obstructive pulmonary disease (COPD); to describe pharmacological pathways that can modify these responses.

**Disease(s) :** Airway diseases

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

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Pathologist, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs :** Apostolos Bossios (Stockholm, Sweden), Louise Donnelly (London, United Kingdom)

**16:30** **Introduction**

**16:35** **Overview of innate and adaptive immune responses in the airways**  
Speaker to be confirmed

**16:50** **Targeting traits in asthma and COPD**  
Anneke Ten Brinke (Leeuwarden, Netherlands)

**17:05** **The yin and yang of immunosuppression with inhaled corticosteroids in asthma and COPD**  
Peter J. Barnes (London, United Kingdom)

**17:20** **Macrolides targeting multiple immune pathways in asthma and COPD**  
Lena Uller (Lund, Sweden)

**17:35** **Discussion and Q&A**

## Studio Amsterdam Session 16:30 - 18:00

### Symposium: New insights into nontuberculous mycobacteria disease: from diagnosis to treatment Nontuberculous mycobacteria infections are becoming an increasing challenge worldwide. Improved awareness and knowledge of current epidemiology, diagnosis and treatment options are a priority

**Aims :** To increase awareness and knowledge of the epidemiology and diagnosis of nontuberculous mycobacteria (NTM) infections and the treatment options.

**Disease(s) :** Respiratory infections

**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, Nurse, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Vitalii Poberezhets (Vinnitsia, Ukraine)

**16:30** **Introduction**

**16:35** **NTM: an overview of changing epidemiology**  
Marc Lipman (London, United Kingdom)

- 16:50 The challenges of diagnosing NTM**  
Emmanuelle Cambau (Paris, France)
- 
- 17:05 The highs and lows of guideline-based therapy for NTM: a case review**  
Michael Loebinger (London, United Kingdom), Jakko van Ingen (Nijmegen, Netherlands)
- 
- 17:20 Novel NTM treatments and approaches, repurposed to bacteriophages**  
Claire Andrejak (Amiens, France)
- 
- 17:35 Discussion and Q&A**

## Studio Paris Session 16:30 - 18:00

### Grand round: Lung cancer grand round

**Aims :** To test the clinical knowledge of participants about thoracic oncology; to allow a unique opportunity for interactive discussions with the case presenters and a multidisciplinary board panel.

**Disease(s) :** Thoracic oncology

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

**Tag(s) :** Clinical

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

**Chairs :** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland), Georgia Hardavella (Athens, Greece)

**16:30 Introduction**

- 16:35 Severe autoimmune syndrome in a patient with a mediastinal mass**  
Jo Raskin (Kessel-Lo, Belgium)

- 16:55 Stage IV adenocarcinoma of the lung with classical epidermal growth factor receptor mutation and a thought-provoking course**  
Amanda Tufman (München, Germany)

- 17:15 Combination immunotherapy in mesothelioma: managing expectations and new toxicities**  
Selina Tsim (Glasgow (Glasgow), United Kingdom)

- 17:35 Re-challenge of immunotherapy in a lung cancer patient**  
Anne-Claire Toffart (Pontcharra, France)

**17:55 Session wrap-up**

## Channel 2 Session 16:30 - 18:00

### Oral presentation: Highlights in COVID-19 diagnosis and treatment

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

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

**Chairs :** Nicoletta R. Morelli (Den Haag, Netherlands), David M. G. Halpin (Exeter, United Kingdom)

## Channel 4 Session 16:30 - 18:00

### Oral presentation: Impact of COVID - 19, quality assurance and technology on pulmonary function

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

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

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Aisling McGowan (Dublin 15, Ireland)

## Channel 3 Session 16:30 - 18:00

### Oral presentation: Monitoring of lung disease and CFTR function in children with cystic fibrosis

**Disease(s) :** Airway diseases

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

**Chairs :** Jane C. Davies (London, United Kingdom), Simon Y. Gräber (Heidelberg, Germany)

**Channel 6** **Session** **16:30 - 18:00****Oral presentation: Innovation in respiratory training****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care**Chairs** : Gernot G.U. Rohde (Frankfurt am Main, Germany), Daiana Stolz (Basel, Switzerland)**Channel 5** **Session** **16:30 - 18:00****Oral presentation: Cellular and molecular involvement in lung injury and repair****Aims** : This session includes the Best Abstract for Assembly 3, entitled "A comprehensive guide to pulmonary mesenchymal populations in the healthy and IPF lung."**Disease(s)** : Airway diseases Respiratory critical care Interstitial lung diseases**Method(s)** : Cell and molecular biology General respiratory patient care Respiratory intensive care**Chairs** : Agnes W. Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)**Studio Munich** **Session** **16:30 - 18:00****Lungs on fire: LoF Respiratory critical care / Sleep and Breathing disorders****Aims** : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**Disease(s)** : Respiratory critical care Sleep and breathing disorders**Target audience** : Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Nurse, Physiologist, Medical Student**Chairs** : Marcus Schultz (Amsterdam, Netherlands), Sophia E. Schiza (Heraklion, Greece), Maxime Patout (Mont-Saint Aignan, France)**Discussants** : Marieke L. Duiverman (Groningen, Netherlands)**16:30** **Introduction****16:35** **Presentation of cases by the session facilitator**  
Marieke L. Duiverman (Groningen, Netherlands)**Case 1 - Author: Kristen A. Mooij-Kalverda, Netherlands****Case 2 - Author: Syeda Nafisa, United Kingdom****Case 3 - Author: Kathryn Hendrickson, United States of America****Case 4 - Author: Mariana Ramos Martins, Portugal****17:55** **Session wrap-up****Studio London** **Session** **16:30 - 18:00****Journal session: The "State of the Art" in the diagnosis of bacterial, mycobacterial, and fungal pneumonias****A joint ERS/New England Journal of Medicine (NEJM) session****Aims** : To explore the current tools available to respiratory clinicians for diagnosis of both community-acquired and healthcare-associated pneumonia; to explore the spectrum of disease seen in healthy and immunocompromised hosts.**Disease(s)** : Respiratory critical care Respiratory infections**Method(s)** : General respiratory patient care Respiratory intensive care**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, General practitioner, Respiratory critical care physician**Chairs** : Thierry Troosters (Leuven, Belgium), Mina Gaga (Athens, Greece)**16:30** **Introduction**  
Jeffrey Drazen (Waltham, United States of America)

- 16:35 Clinical pneumonia: how do I make a specific diagnosis?**  
Lindsey Baden (Boston, United States of America)
- 
- 16:50 Pneumonia diagnostics in high resource settings**  
Tobias Welte (Hannover, Germany)
- 
- 17:05 Pneumonia diagnostics in under-resourced environments**  
Kathryn Maitland (Kilifi, Kenya)
- 
- 17:20 Discussion and Q&A**
- 
- 17:55 Conclusions**  
Jeffrey Drazen (Waltham, United States of America)
- 

**17:30-18:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**SEE PAGE 1**

**18:15-19:45**

**INDUSTRY VIRTUAL SYMPOSIUM**

**SEE PAGE 1**

**20:00-21:30**

**INDUSTRY VIRTUAL SYMPOSIUM**

**SEE PAGE 1**

07:45-09:15

INDUSTRY VIRTUAL SYMPOSIUM

SEE PAGE 1

09:00-09:45

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1

Studio London

Session

09:30 - 11:00

**Symposium: Living with a new norm: providing quality care in the post-COVID era****Aims :** To explore the delivery of safe, high-quality and innovative respiratory care in the post-COVID era.**Disease(s) :** Airway diseases Respiratory infections**Method(s) :** General respiratory patient care Public health Pulmonary function testing**Tag(s) :** Clinical, COVID, Digital health**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist**Chairs :** Martijn A. Spruit (Horn, Netherlands), Pierantonio Laveneziana (Paris, France), Joana Cruz (Leiria, Portugal)**09:30 Introduction****09:35 Patient's perspective**  
Irantzu Muerza Santos (, Spain)**09:40 Airway diseases: how to safely investigate respiratory symptoms in the post-COVID era**  
Antonio Spanevello (Milan, Italy)**09:55 Evidence for and practical implementation of telephone, video-call and on-line consultations**  
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)**10:10 Effectiveness, safety and delivery of pulmonary rehabilitation**  
Thierry Troosters (Leuven, Belgium)**10:25 Maintaining care for high-risk patients with cancer in a pandemic**  
Ilona Tietzova (Praha, Czech Republic)**10:40 Discussion and Q&A**

Studio Amsterdam

Session

09:30 - 11:00

**Hot topics: Hot news from the pleura****Practice-changing research in pleural disease: how to apply the latest evidence****Aims :** To provide an update on current evidence behind interventional and observational management of pneumothorax, review randomised data on ambulatory care, and improve patient selection for individual interventions; to critically review data to improve practice regarding up-to-date management of patients clear of infection, risk stratification, microbiology and interventions for failing patients; to appraise the evidence for non-chemotherapy management of mesothelioma, including immunotherapy and surgery, provided by recent randomised trial results; to review best practice for management of malignant pleural effusion, patient choice, intervention selection and complication management.**Disease(s) :** Respiratory infections Thoracic oncology**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Imaging**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Radiologist, Thoracic oncologist, Thoracic surgeon**Chairs :** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland)**09:30 Introduction****09:35 Pneumothorax: rethinking the intervention paradigm**  
Rob Hallifax (Oxford (Oxfordshire), United Kingdom)**09:50 Pleural infection: phenotyping for optimal treatment selection**  
Najib M. Rahman (Oxford, United Kingdom)

**10:05** **Treating mesothelioma in 2021: what is the role of surgery and immunotherapy?**  
Anna Bibby (Bristol (Avon), United Kingdom)

**10:20** **Optimal management of symptomatic malignant pleural effusions: individualised care**  
Elżbieta Magdalena Grabczak (Warszawa, Poland)

**10:35** **Discussion and Q&A**

## Channel 2 Session 09:30 - 11:00

**Oral presentation: Pearls in immunology, outcome studies and clinical trials in asthma, alpha-1 antitrypsin deficiency and COPD**

**Disease(s)** : Airway diseases

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

**Chairs** : Marco Idzko (Wien, Austria), Christian Taube (Essen, Germany)

## Channel 5 Session 09:30 - 11:00

**Oral presentation: New evidence from longitudinal COPD cohorts and other key studies**

**Disease(s)** : Airway diseases

**Method(s)** : Epidemiology Public health Pulmonary function testing

**Chairs** : Jennifer Quint (Wimbledon, United Kingdom), Chair to be confirmed

## Channel 4 Session 09:30 - 11:00

**Oral presentation: Respiratory infections and bronchiectasis outcomes**

**Disease(s)** : Airway diseases

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

**Chairs** : Natalie Lorent (Leuven, Belgium), Anthony De Soyza (Newcastle-upon-Tyne, United Kingdom)

## Channel 3 Session 09:30 - 11:00

**Oral presentation: Acute and chronic lung infections in children**

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

**Chairs** : Marijke Proesmans (Leuven, Belgium), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

## Channel 6 Session 09:30 - 11:00

**Oral presentation: Optimising outcomes of lung transplantation: how to move forward?**

**Aims** : This session includes the Best Abstract for Assembly 8, entitled "Host response towards decellularised lung extracellular matrix reinforced bioinks for 3D bioprinting lung tissue for transplantation".

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

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

**Chairs** : Robin Vos (Leuven, Belgium), Michael Perch (Gentofte, Denmark)

## Channel 1 Session 09:30 - 11:30

**Language session: Chinese programme 2021**

**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.

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

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

**Tag(s)** : Clinical

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

**Chairs** : Jieming Qu (Shanghai, China), Nicolas Roche (Paris, France)



**09:30 Introduction**

**09:35 Seroprevalence and humoral immune durability of anti-SARS-CoV-2 antibodies: a longitudinal, population-level, cross-sectional study in Wuhan, China**  
Chen Wang (Beijing, China)

**09:50 Long-COVID: What will be the legacy from the pandemic?**  
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

**10:05 The role of epithelium-dependent fibroblast activation in pulmonary fibrosis**  
Wen Ning (Tianjin, China)

**10:20 Interstitial lung diseases and COVID-19: myths and reality**  
Katerina Antoniou (Heraklion, Greece)

**10:35 Radiomics in lung cancer: progress and challenges**  
Weimin Li (Chengdu (Sichuan), China)

**10:50 Non-COVID diseases in the era of COVID (e.g., cancer care)**  
Joanna Chorostowska-Wynimko (Warsaw, Poland)

**11:05 Discussion and Q&A**

**Studio Barcelona****Session****09:30 - 10:10****Guidelines session: ERS guidelines on non-continuous positive airway pressure therapies in obstructive sleep apnoea**

**Aims :** To discuss new recommendations of a recent guideline on non-continuous positive airway pressure (Non-CPAP) therapies in obstructive sleep apnoea, determined by a systematic review of the literature. It is as an update of the 2011 ERS Statement on non-CPAP therapies, advanced into a clinical guideline.

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Patient, Journalist

**Chairs :** Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

**09:30 Introduction**

**09:32 Clinical approach**  
Sophia E. Schiza (Heraklion, Greece)

**09:42 Treatment options and recommendations**  
Johan Verbraecken (Edegem (Antwerp), Belgium)

**09:52 Practical approach with cases, interactive questions and discussion**  
Joerg Steier (London, United Kingdom)

**Studio Munich****Session****09:30 - 11:00****State of the art session: Pulmonary vascular diseases**

**Aims :** To provide insight into specific groups of patients with pulmonary hypertension.

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

**Method(s) :** 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, Physician in Pulmonary Training

**Chairs :** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

**09:30 Introduction**

**09:35 Home treatment of pulmonary embolism**  
Olivier Sanchez (Paris, France)



- 09:50** **Differential diagnosis of pre- and post-capillary pulmonary hypertension: the OPTICS study and other strategies**  
Harm Jan Bogaard (Amsterdam, Netherlands)
- 
- 10:05** **Low DLCO in pulmonary vascular diseases**  
Karen M Olsson (Hannover, Germany)
- 
- 10:20** **Portopulmonary hypertension**  
Laurent Savale (Le Kremlin-Bicêtre, France)
- 
- 10:35** **Discussion and Q&A**

## Skills lab Session 10:00 - 12:00

### Skills lab: Interventional pulmonology

**Aims :** To demonstrate bronchoscopic techniques for the diagnosis, nodal staging, and treatment of lung cancer; to demonstrate novel bronchoscopic techniques for the treatment of chronic obstructive pulmonary disease, emphysema, and chronic bronchitis; to demonstrate how to perform cryobiopsy in interstitial lung diseases, and demonstrate how to do rigid thoracoscopy for suspected pleural malignancy.

**Disease(s) :** Interstitial lung diseases Pulmonary vascular diseases Sleep and breathing disorders Respiratory critical care Airway diseases Paediatric respiratory diseases Respiratory infections Thoracic oncology

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

**Tag(s) :** Clinical

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

**Chairs :** Jouke T. Annema (Amsterdam, Netherlands), Daniela Gompelmann (Vienna, Austria)

- 10:00** **Robotic bronchoscopy combined with needle based confocal laser endomicroscopy (nCLE) for peripheral lung cancer**  
Christopher Manley (Philadelphia, United States of America)
- 
- 10:15** **EBUS combined with EUS-B for a complete endoscopic staging of lung cancer**  
Vanina Livi (Rimini (FO), Italy)
- 
- 10:30** **Cryobiopsy in interstitial lung diseases**  
Sara Tomassetti (Florence, Italy)
- 
- 10:45** **Thoracoscopy for suspected pleural malignancy**
- 
- 11:00** **Bronchoscopic radiofrequent ablation of lung cancer**  
Daniel Steinfert (Clifton Hill (VIC), Australia)
- 
- 11:15** **Rheoplasty in chronic bronchitis**  
Judith Brock (Heidelberg, Germany)
- 
- 11:30** **Target lung denervation (TLD) for COPD**  
Pallav L. Shah (London, United Kingdom)
- 
- 11:45** **Endobronchial valves for lung emphysema**  
Dirk-Jan Slebos (Groningen, Netherlands)

## Studio Barcelona Session 10:20 - 11:00

### Guidelines session: High flow nasal cannula in adults with acute respiratory failure

**Aims :** To provide the evidence on the application of high flow nasal cannula (HFNC) in adults with acute respiratory failure in different clinical scenarios, concerning a critical and patient centered outcomes (ie. mortality, intubation, lung gas exchange, comfort, dyspnea).

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

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

**Tag(s) :** Clinical

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

**Chairs :** Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

- 10:20** **Introduction**

- 10:22**    **Physiologic rationale and clinical pitfalls**  
Raffaele Scala (Arezzo, Italy)
- 
- 10:32**    **Non-invasive respiratory treatment options and recommendations**  
Simon Oczkowski (Hamilton, ON, Canada)
- 
- 10:42**    **Practical approach with cases, interactive questions and discussion**  
Begüm Ergan (Izmir, Turkey)

## Studio London Session 11:15 - 12:45

### Symposium: Maintenance of the beneficial effects of pulmonary rehabilitation: the role of digital health

**Aims :** to describe the natural decline of (extra)pulmonary features of patients with chronic obstructive pulmonary disease (COPD); to describe the concept and effectiveness of maintenance programs following pulmonary rehabilitation; to describe the implementation, challenges and pitfalls of physical activity coaching programs as a maintenance strategy; to provide insight into the role of digital health in maintenance programs.

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

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Martijn A. Spruit (Horn, Netherlands), Pierantonio Laveneziana (Paris, France), Joana Cruz (Leiria, Portugal)

**11:15**    **Introduction**

**11:20**    **Patient's perspective**  
Jean-Michel Fourrier (Lagny sur Marne, France)

**11:25**    **Natural decline of (extra) pulmonary features in patients with COPD: a slippery slope**  
Lowie G.W. Vanfleteren (Gothenburg, Sweden)

**11:40**    **Concepts, goals, challenges and effects of maintenance programs after pulmonary rehabilitation**  
Carolyn Rochester (New Haven, United States of America)

**11:55**    **Take the active option: physical activity coaching programs**  
Heleen Demeyer (Leuven, Belgium)

**12:10**    **Role of digital health to improve maintenance**  
Brian Caulfield (Dublin, Ireland)

**12:25**    **Discussion and Q&A**

## Studio Munich Session 11:15 - 12:45

### Symposium: Pulmonary embolism: special situations

**Aims :** To provide practical recommendations for management of pulmonary embolism (PE) in special situations (cancer and pregnancy), when patients are diagnosed with subsegmental PE and when patients suffer recurrence while on anticoagulant therapy.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Radiologist, Scientist (basic, translational)

**Chairs :** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

**11:15**    **Introduction**

**11:20**    **Management of subsegmental PE**  
Behnood Bikdeli (New York, United States of America)

**11:35**    **Cancer-associated thrombosis**  
Manuel Monreal (Badalona, Spain)

- 11:50**    **Diagnosis and treatment of PE during pregnancy**  
Fionnuala Ní Áinle (Dublin, Ireland)
- 
- 12:05**    **Management of recurrent PE in patients on anticoagulant therapy**  
Marc Rodger (Montreal, Canada)
- 
- 12:20**    **Discussion and Q&A**

## Studio Paris Session 11:15 - 12:45

### Symposium: Precision medicine in respiratory infections

#### The Cournand Lecture

**Aims :** To present the Cournand Lecture on the latest translational science in the field of bronchiectasis; to learn about 1) the ERS living guideline on the management of COVID-19 infection; 2) the latest management of hospitalized patients with COVID-19 infection; 3) about the latest methods and findings in the field of the lung microbiome; to review the latest data on biomarkers and omics technologies and how these can guide precision medicine in airways diseases

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

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

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

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

**Chairs :** Richard Costello (Dublin 9, Ireland), Daiana Stolz (Basel, Switzerland)

**11:15**    **Introduction**

- 11:20**    **The Cournand Lecture: the renaissance of bronchiectasis**  
James D. Chalmers (Dundee (Angus), United Kingdom)

- 11:35**    **The lung microbiome: bench to bedside**  
Sanjay Haresh Chotirmall (Singapore, Singapore)

- 11:50**    **Precision medicine in airways infections**  
Holly Rachael Keir (Dundee (Angus), United Kingdom)

- 12:05**    **European Respiratory Society living guidelines on the management of hospitalized patients with COVID-19**  
Nicolas Roche (Paris, France)

- 12:20**    **Patient's perspective**

- 12:25**    **Discussion and Q&A**

## Studio Barcelona Session 11:15 - 12:45

### Hot topics: How science conquered COVID-19: from big platform trials to patients

**Aims :** To describe ground-breaking news about phenotyping and managing acute hospitalised COVID patients; to describe several key studies, results and advances including the recent RECOVERY-RS study of respiratory support, phenotyping to assist risk stratification and the results of the international RECOVERY and REMAP-CAP trials.

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

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

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

**Chairs :** Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

**11:15**    **Introduction**

- 11:20**    **Phenotypes in acute COVID: lessons from the multicentre studies**  
Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

- 11:35**    **Needing oxygen in COVID? Acute respiratory support (RECOVERY-RS), continuous positive airway pressure, high-flow nasal oxygen and other approaches controversies**  
Gavin D Perkins (Birmingham (West Midlands), United Kingdom)

- 11:50** **Research prioritisation in long COVID: using patients and experts to develop an international consensus**  
Luke Daines (Edinburgh (Edinburgh), United Kingdom)
- 
- 12:05** **What have we learned from big platform trials of COVID? RECOVERY, REMAP-CAP and others**  
Lennie P. G. Derde (Utrecht, Netherlands)
- 
- 12:20** **Discussion and Q&A**

### Channel 4 Session 11:15 - 12:45

#### Oral presentation: Causes and consequences of paediatric respiratory diseases

**Disease(s)** : Airway diseases

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

**Chairs** : Liesbeth Duijts (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)

### Channel 3 Session 11:15 - 12:45

#### Oral presentation: COPD pharmacology: from basic science to real-world data

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

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

**Chairs** : Guy Brusselle (Ghent, Belgium), Chair to be confirmed

### Channel 2 Session 11:15 - 12:45

#### Oral presentation: A multidisciplinary approach to the management of chronic respiratory diseases

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

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

**Chairs** : Sally J. Singh (Leicester (Leicestershire), United Kingdom), Anouk W. Vaes (Horn, Netherlands)

### Channel 6 Session 11:15 - 12:45

#### Oral presentation: From pathophysiology to different diagnostic modalities in sleep disordered breathing

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

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

**Chairs** : Raphael Heinzer (Lausanne, Switzerland), Silke Ryan (Dublin, Ireland)

### Channel 5 Session 11:15 - 12:45

#### Oral presentation: New approaches to diagnostic and prognostic evaluation of interstitial lung diseases of known causes

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

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

**Chairs** : Elena Bargagli (Siena, Italy), Athol Wells (London, United Kingdom)

### Studio Amsterdam Session 11:15 - 12:45

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

**Aims** : To provide valuable insights into hot topics in thoracic oncology. Based on the broad multi-disciplinarity of the European Respiratory Society in this field, latest evidence will be translated into state-of-the-art care, taking into account the integration of artificial intelligence.

**Disease(s)** : Thoracic oncology

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

**Tag(s)** : Translational

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs** : Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland)

**11:15 Introduction****11:20 Early detection of thoracic malignancies and artificial intelligence: a rapidly evolving field**  
Annemiek Snoeckx (Edegem (Antwerp), Belgium)**11:35 Multimodality management of non-small cell lung cancer stage III: the pulmonologist as pilot and partner**  
Armin Frille (Leipzig, Germany)**11:50 New treatment concepts in stage IV non-small cell lung cancer: personalised multidisciplinary approaches**  
Isabelle Opitz (Zurich, Switzerland)**12:05 Approaches to radiological staging of mesothelioma relating to modern treatment modalities**  
Kevin Blyth (Glasgow (Glasgow), United Kingdom)**12:20 Discussion and O&A****Channel 1****Session****11:45 - 13:00****Challenging clinical cases: CCC Airway diseases****Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in airway diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.**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, Respiratory physiotherapist, Radiologist, Nurse, Medical Student**Chairs :** Dave Singh (Manchester, United Kingdom), Ayşe Arzu Yorgancıoğlu (Izmir, Turkey)**11:45 Introduction****11:50 Congenital bronchobiliary fistula in an adult managed with bronchoscopic cyanoacrylate glue instillation**  
Muniza Bai (PONDICHERRY, India)**12:00 A rare case of hemoptysis**  
Niranjan Babu Ananda Setty (Bangalore (Karnataka), India)**12:10 The plug thickens - a case of obstructive, bronchial mucus plugs**  
Frederikke Falkencrone Rønsholt (Kgs. Lyngby, Denmark)**12:20 A case of peripheral eosinophilia**  
Arvind Tomar (Meerut, India)**12:30 Drug user related pneumopathy: a case report**  
Fábio Kunita (Rio de Janeiro, Brazil)**12:40 Discussion and Q&A****Skills lab****Session****12:10 - 12:50****Skills lab: Spirometry and oscillometry****Updates in basic and advanced lung function techniques****Disease(s) :** Airway diseases**Method(s) :** Pulmonary function testing**Tag(s) :** Clinical**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)**12:10 Introduction**  
Omar S. Usmani (London, United Kingdom)**12:12 Spirometry**  
Andrew Kouri (Toronto (ON), Canada), Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)

**12:27 Oscillometry**  
Chung-Wai Chow (Toronto (ON), Canada), Speaker to be confirmed

**12:42 Discussion and Q/A**  
Omar S. Usmani (London, United Kingdom), Andrew Kouri (Toronto (ON), Canada), Chung-Wai Chow (Toronto (ON), Canada), Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico), Speaker to be confirmed

**13:00-14:30**

**INDUSTRY VIRTUAL SYMPOSIUM**

**SEE PAGE 1**

**Skills lab**

**Session**

**13:00 - 15:00**

**Skills lab: Pulmonary rehabilitation**

**Interpretation of functional assessments to set up an individualised exercise training intervention**

**Aims :** To learn how to use results of functional assessments; to set up an individualised exercise training intervention for a participant in a pulmonary rehabilitation programme.

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

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

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

**Target audience :** Adult pulmonologist/Clinician, Physician in Pulmonary Training, Physiologist, Patient, Respiratory physiotherapist, Respiratory therapist, Nurse

**Chairs :** Daniel Langer (Leuven, Belgium), Thierry Troosters (Leuven, Belgium)

**13:00 Case study - Interpretation of functional assessments to set up an individualised exercise training intervention**  
Thierry Troosters (Leuven, Belgium), Daniel Langer (Leuven, Belgium)

**Pre-congress content**

**Session**

**13:15 - 14:15**

**Thematic poster: Prediction of exacerbations in patients with COPD**

**Disease(s) :** Airway diseases

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

**Chairs :** Christina Bal (Wien, Austria), Therese Lapperre (Antwerp, Belgium)

**Pre-congress content**

**Session**

**13:15 - 14:15**

**Thematic poster: COVID - 19 around the globe**

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

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

**Chairs :** Claudia Crimi (Catania (CT), Italy), Chair to be confirmed

**Pre-congress content**

**Session**

**13:15 - 14:15**

**Thematic poster: Pleural disease and bronchoscopic lung volume reduction**

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

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

**Chairs :** Mohammed Munavvar (Preston (Lancashire), United Kingdom), Dirk-Jan Slebos (Groningen, Netherlands)

**Pre-congress content**

**Session**

**13:15 - 14:15**

**Thematic poster: Translational and other aspects of idiopathic interstitial pneumonia**

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

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

**Chairs :** Sabina A. Guler (Bern, Switzerland), Bruno Crestani (Paris, France)



## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Respiratory failure in COVID19 and beyond

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

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

Chairs : Michael Dreher (Aachen, Germany), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: What's new in respiratory problems in rare and systemic diseases

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

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

Chairs : Carmelo Gabriele (Ancona (AN), Italy), Nicolas Kahn (Heidelberg, Germany)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID-19 and management of lung cancer

Disease(s) : Thoracic oncology Respiratory critical care

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

Chairs : Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Paediatric respiratory infections: chronic infection, vaccination and lung function

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

Chairs : Paul McNamara (Liverpool (Merseyside), United Kingdom), Mieke Boon (Witsele, Belgium)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Clinical features and new biomarkers of asthma, COPD and chronic cough

Disease(s) : Airway diseases

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

Chairs : Marek Lommatzsch (Rostock, Germany), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Chronic airway, interstitial, pleural and neoplastic diseases

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

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

Chairs : Denis Vinnikov (Almaty, Kazakhstan), Anna-Carin Olin (Göteborg, Sweden)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID - 19 epidemiology

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

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

Chairs : Oksana Viltsaniuk (Vinnitsa, Ukraine), Jessica Rademacher (Hannover, Germany)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Imaging in COVID-19

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

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

Chairs : Mario Silva (Milan, Italy), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: New insights into lung function testing

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

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

Chairs : Natalia Belousova (Toronto, Canada), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Occupational COVID-19 and respiratory infections

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

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

Chairs : Sara De Matteis (Cagliari, Italy), Rafael E. de la Hoz (New York, United States of America)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID - 19, smoking and e-cigarettes

Disease(s) : Airway diseases Thoracic oncology

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

Chairs : Linnea Hedman (Luleå, Sweden), Özen K Basoglu (Izmir, Turkey)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Assessing the impact of COVID-19 on lung function

Disease(s) : Respiratory critical care

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

Chairs : Frederik Trinkmann (Heidelberg, Germany), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Biomarkers and risk factors in childhood asthma

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

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

Chairs : Angela Zacharasiewicz (Wien, Austria), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: The ongoing threat of drug-resistant tuberculosis

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Giovanni Battista Migliori (Varese (VA), Italy), Sergey Evgenievich Borisov (Moscow, Russian Federation)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Advances in diagnosis, treatment and clinical management of nontuberculous mycobacterial disease

Disease(s) : Airway diseases

Method(s) : General respiratory patient care Physiology Surgery Epidemiology

Chairs : Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Accurate diagnosis and prediction of malignant pleural disease

Disease(s) : Thoracic oncology Respiratory critical care

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

Chairs : Jose Porcel (Lleida, Spain), Duneesha De Fonseka (Sheffield, United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Clinical problems associated with cough, pleura and respiratory health status

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

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

**Chairs** : Katharina Buschulte (Heidelberg , Germany), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID19, acute respiratory failure and basic science

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

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

**Chairs** : Ignacio Martin-Loeches (Dublin, Ireland), Zhonghua Shi (Amsterdam, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Interstitial lung disease around the world

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

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

**Chairs** : Karen Moor (Rotterdam, Netherlands), Michael Kreuter (Heidelberg, Germany)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Biomarkers to phenotype asthma: prediction of exacerbations

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

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

**Chairs** : Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anirban Sinha (Amsterdam, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Advances in asthma treatment: monoclonal antibodies

**Disease(s)** : Airway diseases

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

**Chairs** : Salman Siddiqui (Leicester, United Kingdom), Corrado Pelaia (Catanzaro (CZ), Italy)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Advanced in vitro models for drug discovery

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

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

**Chairs** : Reinoud Gosens (Groningen, Netherlands), Anne M. van der Does (Leiden, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID - 19 treatments

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

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

**Chairs** : James D. Chalmers (Dundee (Angus), United Kingdom), Megan Crichton (Dundee (Angus), United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Primary care diagnosis and multimorbidities

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

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

**Chairs** : Noel Baxter (London, United Kingdom), Rachel Jordan (Birmingham (West Midlands), United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Pulmonary hypertension in the COVID-19 pandemic and beyond

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

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

Chairs : Frédéric Lador (Genève 14, Switzerland), Pilar Escribano-Subias (Madrid, Spain)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Molecular pathology and cell biology of pulmonary diseases

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

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

Chairs : Simon D. Pouwels (Groningen, Netherlands), Niki Ubags (Epalinges, Switzerland)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID - 19 risk predictions

Disease(s) : Respiratory critical care

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

Chairs : Eva Van Braeckel (Ghent, Belgium), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Therapies for respiratory diseases in primary care and COVID - 19

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Su May Liew (Kuala Lumpur, Malaysia), Tiago Maricoto (Aveiro, Portugal)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Home mechanical ventilation: organisation and outcomes

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

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

Chairs : Carla Ribeiro (Porto, Portugal)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Biomarkers to phenotype COPD: prediction of exacerbations

Disease(s) : Airway diseases

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

Chairs : Zsófia Lázár (Budapest, Hungary), Pierre-Régis Burgel (Paris, France)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Thoracic ultrasound as a bedside clinical tool

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

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

Chairs : Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Pia Iben Pietersen (Odense NØ, Denmark)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: A multidisciplinary approach to pulmonary rehabilitation and management of chronic respiratory diseases

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

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

Chairs : Rainer Gloeckl (Schoenau am Koenigssee, Germany), Zuleyha Bingol (Istanbul, Turkey)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Advances in asthma treatment

Disease(s) : Airway diseases

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

Chairs : Charlotte Suppli Ulrik (Virum, Denmark), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Cystic fibrosis in children: various aspects

Disease(s) : Airway diseases

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

Chairs : Stojka Fustik (Skopje, North Macedonia), Claire Nissenbaum (manchester, United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COVID - 19

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

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

Chairs : Jennifer Cane (Oxford (Oxfordshire), United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Challenging problems in lung transplantation

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

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

Chairs : Berta Saez Gimenez (Sant Cugat del Vallès (Barcelona), Spain), Merel Hellemons (Rotterdam, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: COPD burden, epidemiology and management

Disease(s) : Airway diseases

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

Chairs : Morten Dahl (Køge, Denmark), Sanne van Kampen (Leiden, Netherlands)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Primary ciliary dyskinesia and tracheostomy

Disease(s) : Airway diseases

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

Chairs : Myrofora Goutaki (Bern, Switzerland), Sarah Brown (Ashford (Kent), United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: E-health for COVID-19

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

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

Chairs : Vitaly Mishlanov (Perm, Russian Federation), Io Hui (Edinburgh (Edinburgh), United Kingdom)

## Pre-congress content Session 13:15 - 14:15

## Thematic poster: Digital health interventions in respiratory medicine

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

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



**Chairs :** Vitalii Poberezhets (Vinnytsia, Ukraine), Annette Kainu (Helsinki, Finland)

## Pre-congress content Session 13:15 - 14:15

### Thematic poster: Oncology, the mediastinum and infectious lung disease

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

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

**Chairs :** Michel Gonzalez (Lausanne, Switzerland), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

### Thematic poster: Asthma inhalers: new devices and adherence

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

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

**Chairs :** Dimitrios Toumpanakis (Athens, Greece), Chair to be confirmed

## Pre-congress content Session 13:15 - 14:15

### Thematic poster: Paediatric allergic asthma: novel therapeutics and monitoring approaches

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

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

**Chairs :** Erol Gaillard (Leicester (Leicestershire), United Kingdom), Katharina Kainz (Wien, Austria)

## Pre-congress content Session 13:15 - 14:15

### Thematic poster: Biological and functional markers of COVID-19

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

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

**Chairs :** Chair to be confirmed

## Channel 1 Session 14:45 - 16:00

### Challenging clinical cases: CCC Thoracic oncology

**Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in thoracic oncology area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

**Disease(s) :** Thoracic oncology

**Tag(s) :** Clinical

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

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

**14:45 Introduction**

**14:50 An unusual cause of breathlessness**  
Stephanie K. Mansell (Guildford (Surrey), United Kingdom)

**15:00 Chylo-pneumothorax complicated with re-expansion pulmonary edema and chyluria due to para-spinal neurilemmoma**  
Sugeesha Wickramasinghe (Kadawath, Sri Lanka)

**15:10 Needle based confocal laser endomicroscopy: a novel real-time diagnostic approach for suspected peripheral lung lesions.**  
Tess Kramer (Amsterdam, Netherlands)

**15:20 Is cystic fibrosis the hemi-neglected part of respiratory medicine?**  
Mohd Adil Khan (Nottingham, United Kingdom)

**15:30 Mesothelioma in situ with regressive malignant pleural effusion. A year latter**  
Gustavo Corrêa De Almeida (São Paulo (SP), Brazil)



15:40 Discussion and Q&amp;A

<b>Studio London</b>	<b>Session</b>	<b>14:45 - 16:15</b>
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**Symposium: Orphan childhood disease: nicotine and cannabis addiction**

**Aims :** To review the epidemiology and trends of tobacco, e-cigarette and cannabis use worldwide, highlighting the combinatorial use of these products and multiple delivery devices; to discuss the context of and motivation for cannabis use among young people; to explain the definition of problematic cannabis use and current evidence about cannabis psychoactivity and the impact of early cannabis use in the immature brains of children and teenagers; to review the types and effectiveness of preventative measures and treatments for nicotine and cannabis use among young people; to present evidence about the health effects of cannabis and e-cigarettes in young people and the implications for lung development and function; to stress the need for effective regulation to prevent young people accessing these products and being exposed to related marketing.

**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, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist**Chairs :** Jonathan Grigg (London, United Kingdom), Chair to be confirmed

14:45 Introduction

14:50	<b>What are kids experimenting with? Epidemiology and trends of tobacco use and mental effects of nicotine and cannabis use</b> Charlotta Pisinger (Frederiksberg, Denmark)
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15:05	<b>The effect of e-cigarette vapour on the lungs of adolescents and young people</b> Ilona Jaspers (Chapel Hill, United States of America)
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15:20	<b>Effects of nicotine and cannabis on chronic respiratory diseases of children</b> Elif Dagli (Istanbul, Turkey)
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15:35	<b>Nicotine and cannabis use among teenagers: from prevention to treatment. What works?</b>
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15:50	<b>Discussion and Q&amp;A</b>
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<b>Studio Amsterdam</b>	<b>Session</b>	<b>14:45 - 16:15</b>
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**Symposium: Emerging imaging biomarkers in lung disease**

**Aims :** To present information on imaging methods including positron emission tomography (PET), computed tomography (CT), magnetic resonance imaging (MRI) and micro-CT; to present translational human and animal studies that have identified novel imaging biomarkers for assessment of fibrosis and inflammation.

**Disease(s) :** Airway diseases Interstitial lung diseases**Method(s) :** Cell and molecular biology Imaging Physiology**Tag(s) :** Translational , Clinical**Target audience :** Clinical researcher, Medical Student, Pathologist, Patient, Radiologist, Scientist (basic, translational)**Chairs :** Silke Meiners (München, Germany), Katerina Antoniou (Heraklion, Greece)

14:45 Introduction

14:50	<b>Emerging diagnostics from MRI, PET and CT studies of lung disease</b> James Eaden (Sheffield (South Yorkshire), United Kingdom)
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15:05	<b>Preclinical models and imaging biomarkers of lung injury and disease</b> Irma Mahmutovic Persson (Lund, Sweden)
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15:20	<b>Micro-computed tomography to quantify lung fibrosis in vivo</b> Greetje Vande Velde (Leuven, Belgium)
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15:35	<b>Novel imaging biomarkers for assessment of lung fibrosis and inflammation</b> Tim Rosenow (Perth (WA), Australia)
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15:50	<b>Discussion and Q&amp;A</b>
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**Channel 4** Session 14:45 - 16:15**Oral presentation: Acute COVID - 19****Method(s)** : Public health General respiratory patient care Respiratory intensive care Epidemiology Cell and molecular biology**Chairs** : Antoni Torres Marti (Barcelona, Spain), Chair to be confirmed**Channel 6** Session 14:45 - 16:15**Oral presentation: Severe acute respiratory failure****Disease(s)** : Respiratory critical care**Method(s)** : Respiratory intensive care Physiology Epidemiology General respiratory patient care**Chairs** : Leo Heunks (Amsterdam, Netherlands), Antonio Artigas (Sabadell (Barcelona), Spain)**Channel 3** Session 14:45 - 16:15**Oral presentation: Respiratory disorders in neonatal and paediatric intensive care****Disease(s)** : Respiratory critical care Airway diseases**Method(s)** : Respiratory intensive care Physiology Epidemiology Endoscopy and interventional pulmonology**Chairs** : Theodore Dassios (London, United Kingdom), Anna Lavizzari (Milano (MI), Italy)**Channel 2** Session 14:45 - 16:15**Oral presentation: Remote monitoring of respiratory patients****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : General respiratory patient care Physiology Epidemiology Public health**Chairs** : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Andrea Aliverti (Milan, Italy)**Channel 5** Session 14:45 - 16:15**Oral presentation: Better understanding of sarcoidosis: new keys****Disease(s)** : Interstitial lung diseases**Method(s)** : Epidemiology General respiratory patient care Physiology Cell and molecular biology**Chairs** : Paolo Spagnolo (Padova (PD), Italy), Karen Moor (Rotterdam, Netherlands)**Studio Barcelona** Session 14:45 - 16:15**Lungs on fire: LoF Airway diseases?****Aims** : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**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** : Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France), Carolina Maria Gotera Rivera (Madrid, Spain)**Discussants** : Dave Singh (Manchester, United Kingdom)**14:45 Introduction****14:50 Presentation of cases by the session facilitator**  
Dave Singh (Manchester, United Kingdom)**Case 1 - Author: Anna Boehm, Austria****Case 2 - Author: Michael Joachim Fröhlich, Germany****Case 3 - Author: Elisa Riccardi, Italy****Case 4 - Author: Khaing Thu Thu, United Kingdom**

## 16:10 Session wrap-up

## Studio Paris Session 14:45 - 16:15

## Respiratory medicine meets other disciplines: Emerging data for the management of respiratory tract infections

A joint ERS/ESCMID session. Results from the current European Clinical Research Initiative on Antimicrobial resistance and emerging Infectious Diseases (ECRAID) - Value-Dx project

**Aims :** To present the first data emerging from the European project of Value Dx aimed at investigating the use of old and new diagnostic tests to optimise the use of antimicrobials and the management of respiratory infections across different settings (from primary care to intensive care units); to provide an overview and update of the role of diagnostics in the management of respiratory infections by reducing the overuse of antimicrobials and optimising clinical outcomes, utilisation of healthcare resources and economics. The Value Dx project is part of the European clinical research initiative on antimicrobial resistance and emerging infectious diseases.

**Disease(s) :** Respiratory infections

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

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

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

**Chairs :** Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Porto Torres (SS), Italy)

## 14:45 Introduction

**14:50 Potential impact and relevance of diagnostics in the management of respiratory tract infections: from COVID to hospital-acquired pneumonia**  
Maurizio Sanguinetti (Rome, Italy)

**15:05 Use of diagnostic tests in respiratory tract infections: an economic analysis.**  
Maarten Postma (Groningen, Netherlands)

**15:20 Management of community-acquired pneumonia: new evidence-based algorithms.**  
Evelina Tacconelli (, Italy)

**15:35 Are antimicrobials still the future of respiratory infection therapy?**  
Stefano Aliberti (Milano (MI), Italy)

## 15:50 Discussion and Q&amp;A

## Studio Munich Session 14:45 - 16:15

## State of the art session: Sleep and breathing disorders

Sleep revolution meets obstructive sleep apnoea: classification, grading, outcome indicators and use of new technologies

**Aims :** To describe current knowledge of obstructive sleep apnoea (OSA) from epidemiology to new classifications, treatment and prevention; to explain how clinicians could face the future of sleep breathing disorders (SBDs) in light of new technologies; to identify strategies for a homogenous European approach to the identification, diagnosis and management of sleep breathing disorders, presenting the Sleep Revolution project of the European Union.

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

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

**Tag(s) :** Clinical, Digital health

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

**Chairs :** Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland)

## 14:45 Introduction

**14:50 Is the apnoea-hypopnea index more than a historical parameter?**  
Dirk A.A. Pevernagie (Heeze, Netherlands)

**15:05 The hypoxic burden during sleep: which parameter counts?**  
Silke Ryan (Dublin, Ireland)

**15:20 An integrative approach to OSA classification**  
Winfried J. Randerath (Solingen, Germany)

**15:35 An homogenous European approach for SBD management, incorporating new technologies and the Sleep Revolution project**

**15:50 Discussion and Q&A**

**15:30-16:15**

**INDUSTRY SKILLS LAB WORKSHOP**

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**Studio Munich**

**Session**

**16:30 - 18:00**

**Symposium: What is new for sleep apnoea? The European perspective: findings from the European Sleep Apnoea Database (ESADA)**

**Aims :** To provide new insights from the results of the ongoing Clinical Research Collaboration from the European Sleep Apnoea Database big data analysis and its importance to challenging traditional obstructive sleep apnoea (OSA) stereotypes with the aims of preventing disease and achieving early disease identification; to emphasise the need to use new technologies for diagnosis and early identification of residual daytime sleepiness and treatment follow-up, especially in terms of driving safety and difficult situations such as epidemics and pandemics; to identify future research directions and their clinical implications; to emphasise the importance of European networking in general and for early career members.

**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

**Chairs :** Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland)

**16:30 Introduction**

**16:35 Cluster analysis of clinical phenotypes of OSA and its implications for comorbidities**  
Jean-Louis Pépin (Grenoble, France)

**16:50 Mild sleep apnoea: the hidden base of the iceberg?**  
Walter McNicholas (Dublin, Ireland)

**17:05 Residual daytime sleepiness and its implications**  
Maria Bonsignore (Palermo, Italy)

**17:20 Controversies in OSA: causes and future directions**  
Patrick Lévy (Grenoble, France)

**17:35 Discussion and Q&A**

**Studio Paris**

**Session**

**16:30 - 18:00**

**Symposium: Community-acquired pneumonia: the new perspective in the post-COVID era**  
Update on pneumonia including critical analysis of the new guidelines and new diagnostic and therapeutic options in light of recent experience with COVID-19 pneumonia

**Aims :** to update health professionals dealing with pneumonia about recent guidelines, the new challenges of viral pneumonia that emerged during the COVID-19 pandemic and advances in new diagnostic and therapeutic options.

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

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

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

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

**Chairs :** Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Porto Torres (SS), Italy)

**16:30 Introduction**

**16:35 Rethinking the guidelines after COVID-19**  
Ignacio Martin-Loeches (Dublin, Ireland)

**16:50 The challenges of viral pneumonia in the post-COVID era**  
Carolina García-Vidal (, Spain)

**17:05 Advances in diagnostic tools for lower respiratory tract infections**  
Cristina Prat Aymerich (Badalona (Barcelona), Spain)

**17:20 Antimicrobial resistance and new therapeutic options**  
Kristina Crothers (Seattle, United States of America)

**17:35 Discussion and Q&A**

## Channel 2

## Session

16:30 - 18:00

### Symposium: Keys to success in science

#### Early career member session 2021

**Aims :** To describe how young researchers can get involved in European Research Society (ERS) activities; to present critical steps for a successful career in respiratory research and medicine; to discuss challenges and opportunities for women in science.

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

**Chairs :** Daniela Gompelmann (Vienna, Austria), Maxime Patout (Mont-Saint Aignan, France)

**16:30 Introduction**

**16:35 ERS activities: how to get involved**  
Niki Ubags (Epalinges, Switzerland)

**16:50 Keys for successful science**  
Lies Lahousse (Ghent, Belgium)

**17:05 Mina Gaga lecture**  
Alberto Garcia-Basteiro (Maputo, Mozambique)

**17:20 Women in science**  
Sheila Ramjug (Altrincham, United Kingdom)

**17:35 Discussion and Q&A**

## Studio Barcelona

## Session

16:30 - 18:00

### Grand round: Clinical challenges beyond guidelines

**Aims :** To describe controversial aspects of the current guidelines for non-invasive respiratory support, asthma, management of solitary pulmonary nodules and imaging of pulmonary hypertension; to discuss data underpinning non-adherence and alternative approaches to ongoing recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern and to highlight the need for further research.

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

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

**Tag(s) :** Clinical

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

**Chairs :** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France), Carolina Maria Gotera Rivera (Madrid, Spain)

**16:30 Introduction**

**16:35 Noninvasive respiratory support in the hypoxaemic peri-operative/periprocedural patient: joint ESA/ESICM guideline**  
Lise Piquilloud (Lausanne, Switzerland)

**16:55 Deconstructing the GINA staircase: the new house of asthma**  
Paul O'Byrne (Hamilton (ON), Canada)

**17:15 Self-oriented interpretation of guidelines for management of solitary pulmonary nodules. ACR, ACCP, BTS and Fleischner: a "pot pourri" that may miss occult cancer?**  
Stefano Elia (Roma (RM), Italy)

**17:35 Imaging of pulmonary hypertension in adults: a position paper from the Fleischner Society**  
David Kiely (Sheffield (South Yorkshire), United Kingdom)

17:55 Session wrap-up

Studio London	Session	16:30 - 18:00
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**Hot topics: The environment and climate change effects on lung health across the lifecourse**

**Aims :** To answer crucial open questions about the causal relationships between adverse environmental exposures and respiratory outcomes, their interplay and elaborate strategies in order to decrease the burden of resulting respiratory diseases; to explore the interactions of poverty and environmental exposures as an additional “new” risk for respiratory health, both in low-middle, and high-income countries; to present new WHO Air Quality Guidelines (AQG), which are based on the expert evaluation of the latest scientific evidence on the health effects of air pollution.; to discuss what potential implications the new WHO AQG will have on the air quality legislation in EU, which is in the heart of European Green Deal, and how respiratory clinicians can use the new Guidelines in their clinical work, in increasing awareness of air pollution health effects among their patients and clinicians, as well as in translation of this knowledge to relevant authorities demanding cleaner air quality policies.

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

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

**Tag(s) :** Clinical

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

**Chairs :** Jonathan Grigg (London, United Kingdom), Chair to be confirmed

16:30 Introduction

16:35 **The effect of climate change on respiratory health**  
Elaine Fuertes (London, United Kingdom)

16:50 **Environmental exposures and socio-economic disparity: the effect on lung health across the life course**  
Speaker to be confirmed

17:05 **The new WHO air quality guidelines presentation**  
Michal Krzyzanowski (London, United Kingdom)

17:20 **The new WHO air quality guidelines: policy and clinical implications for children with respiratory diseases**  
Barbara Hoffmann (Düsseldorf, Germany)

17:35 Discussion and Q&A

16:30-17:15

INDUSTRY SKILLS LAB WORKSHOP

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Channel 4	Session	16:30 - 18:00
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**Oral presentation: Exacerbations of chronic respiratory diseases, including SARS-CoV-2**

**Disease(s) :** Airway diseases

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

**Chairs :** Imran Satia (Hamilton, Canada), Florence Schleich (Liège, Belgium)

Channel 3	Session	16:30 - 18:00
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**Oral presentation: Respiratory function after COVID-19 and mechanical ventilation**

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

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

**Chairs :** Sam Bayat (Grenoble, France), William Stringer (Long Beach, United States of America)

Channel 5	Session	16:30 - 18:00
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**Oral presentation: Paediatric bronchology**

**Disease(s) :** Airway diseases

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

**Chairs :** Dirk Schramm (Düsseldorf, Germany), Raffaella Nenna (Rome, Italy)



<b>Studio Amsterdam</b>	<b>Session</b>	<b>16:30 - 18:00</b>
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**Journal session: Interstitial lung diseases: from disease mechanisms to novel treatment options****A joint ERS/Lancet session**

**Aims :** To provide new insights into disease pathogenesis; to highlight the clinical promise of disease biomarkers; to consider current diagnostic approaches; to describe the range of treatment options available or being developed for patients with interstitial lung disease; to set out future directions for research and clinical practice.

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

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

**Tag(s) :** Clinical

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

**Chairs :** Silke Meiners (München, Germany), Katerina Antoniou (Heraklion, Greece)

<b>16:30</b>	<b>Introduction</b> Rebecca Craven (London, United Kingdom)
<b>16:35</b>	<b>Disease pathology in interstitial lung disease</b> Elisabetta Renzoni (London, United Kingdom)
<b>16:50</b>	<b>Biomarker discovery, development, and implementation in interstitial lung diseases</b> Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom)
<b>17:05</b>	<b>Early diagnosis of fibrotic interstitial lung disease: challenges and opportunities</b> Paolo Spagnolo (Padova (PD), Italy)
<b>17:20</b>	<b>Treatment of interstitial lung diseases: current approaches and future directions</b> Kerri Johannson (Calgary (AB), Canada)
<b>17:35</b>	<b>Discussion and Q&amp;A</b>
<b>17:55</b>	<b>Conclusions</b> Rebecca Craven (London, United Kingdom)

<b>Channel 1</b>	<b>Session</b>	<b>16:30 - 18:00</b>
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**Joint session: Hot topics in thoracic oncology****ERS/Industry joint session**

**Chairs :** Torsten Gerriet Blum (Berlin, Germany)

<b>16:30</b>	<b>Introduction</b> Torsten Gerriet Blum (Berlin, Germany)
<b>16:35</b>	<b>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the oncological evidence</b> Karim Vermaelen (Ghent, Belgium)
<b>16:55</b>	<b>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the surgical evidence</b> Isabelle Opitz (Zurich, Switzerland)
<b>17:15</b>	<b>Is pathological response a valid surrogate for outcome?</b> Aurelie Fabre (Dublin 4, Ireland)
<b>17:35</b>	<b>Panel discussion</b> Torsten Gerriet Blum (Berlin, Germany), Karim Vermaelen (Ghent, Belgium), Isabelle Opitz (Zurich, Switzerland), Aurelie Fabre (Dublin 4, Ireland)

**18:15-19:45****INDUSTRY VIRTUAL SYMPOSIUM****SEE PAGE 1****20:00-21:30****INDUSTRY VIRTUAL SYMPOSIUM****SEE PAGE 1**

**No Room** **Session** **08:15 - 09:15****Knowledge café: How to engage with patient organisations?**

**Aims :** To explain when interactions with patient organisations are important, understand how to effectively speak with patients, understand the importance of the patient perspective for both clinical and basic/translational studies.

**Chairs :** Cristina Ardura-Garcia (Bern, Switzerland)

**08:15** **Engaging with patient organisations - moderated discussion**  
Kjeld Hansen (Oslo, Norway), Speaker to be confirmed

**08:45** **Interactive questions and answers**  
Kjeld Hansen (Oslo, Norway), Cristina Ardura-Garcia (Bern, Switzerland), Speaker to be confirmed

**No Room** **Session** **08:15 - 09:15****Knowledge café: How to effectively publish scientific work?**

**Aims :** To understand how to prepare your manuscript, explain the importance of your cover letter, explain how to effectively respond to reviewer comments, understand how to effectively interact with the editors.

**Chairs :** Holly Rachael Keir (Dundee (Angus), United Kingdom)

**08:15** **Effectively publishing scientific work - moderated discussion**  
James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain), Holly Rachael Keir (Dundee (Angus), United Kingdom)

**08:45** **Interactive questions and answers**  
Holly Rachael Keir (Dundee (Angus), United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain)

**No Room** **Session** **08:15 - 09:15****Knowledge café: How to identify your research niche?**

**Aims :** To understand the importance of finding your own (research) niche, understand how to establish your (research) niche for your career development, explain how to search for/approach an organisation with the appropriate environment for your (research) niche.

**Chairs :** Orianne Dumas (Villejuif, France)

**08:15** **Identifying your research niche - moderated discussion**  
Speaker to be confirmed

**08:45** **Interactive questions and answers**  
Speaker to be confirmed

**No Room** **Session** **08:15 - 09:15****Knowledge café: Challenges raised by COVID in early career respiratory professional training**

**Aims :** To understand the major challenges experienced by early career professionals on their training due to COVID19, determine which support systems are required for the training of early career professionals affected by COVID19, understand the needs of early career professionals in the aftermaths of COVID19, understand the role of institution leadership/faculty in the support of training for early career professionals affected by COVID19.

**Chairs :** Chair to be confirmed

**08:15** **Challenges raised by COVID in early career respiratory professional training - moderated discussion**  
Mareike Lehmann (München, Germany), Speaker to be confirmed

**08:45** **Interactive questions and answers**  
Mareike Lehmann (München, Germany), Speaker to be confirmed

**No Room** **Session** **08:15 - 09:15****Knowledge café: Mobility as an early career respiratory professional**

**Aims :** To understand the influence of a national/international change of institution on your personal and career development, review the alternatives to mobility requirements for grant applications, explain how to find a suitable host institution for a stay abroad.

**Chairs :** Niki Ubags (Epalinges, Switzerland)

**08:15** **Mobility as an early career respiratory professional - moderated discussion**  
Melanie Konigshoff (Pittsburgh, United States of America), Niki Ubags (Epalinges, Switzerland), Speaker to be confirmed

**08:45** **Interactive questions and answers**  
Niki Ubags (Epalinges, Switzerland), Melanie Konigshoff (Pittsburgh, United States of America), Speaker to be confirmed

## Studio Amsterdam Session 09:30 - 11:00

### Symposium: Lung cancer and fibrotic interstitial lung diseases: a challenging association for pulmonologists

#### Diagnosis, improved treatment and prevention of lung cancer in patients with fibrotic interstitial lung disease

**Aims :** to provide an overview of the epidemiology, clinical, radiological and pathological characteristics and prognosis of patients with lung cancer (LC) associated with fibrotic interstitial lung disease (fILD); to describe evidence of pathophysiological intersections between these two diseases and the importance of designing new therapeutic strategies based on this knowledge; to explain the importance of cancer treatments that could improve the survival of such patients; to investigate how anti-fibrotic treatments or other therapeutic innovations could modify the natural history of these diseases.

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist

**Chairs :** Torsten Gerriet Blum (Berlin, Germany), Marlies S. Wijssenbeek (Rotterdam, Netherlands)

**09:30** **Introduction**

**09:35** **Current portrait of LC-fILD: from epidemiology to clinico-patholo-radiological presentation and prognosis**  
Manuela Funke-Chambour (Bern, Switzerland)

**09:50** **Pathophysiology of LC and fILD : siblings or just friends?**  
Venerino Poletti (Forli, Italy)

**10:05** **How to stop LC-fILD progression: an overview of modern therapeutic strategies**  
Jacques Cadranel (Paris Cedex 20, France)

**10:20** **How to disrupt malicious LC-fILD pathways: antifibrotic agents as a promising therapeutic approach**  
Athol Wells (London, United Kingdom)

**10:35** **Discussion and Q&A**

## Studio London Session 09:30 - 11:00

### Hot topics: Viral infections trigger chronic lung damage and disease

**Aims :** To summarise the translational evidence for a pathogenic role of viral infections in chronic lung diseases; to explain the role of viruses as injurious agents in the onset of a variety of pulmonary pathologies (including COVID and other viruses known for their damaging effects on pulmonary health via various possible pathways); to summarise the most recent knowledge regarding viral induction of chronic lung diseases; to discuss the implications of new emerging respiratory viruses for virus epidemiology, pandemic threats and vaccine development; to highlight the contribution of viral infections to the onset of chronic lung diseases; to list the mechanistic pathways of post-viral chronic lung diseases and the factors modulating (post)virus pathogenesis including age; to describe the activation of immune cells in viral-induced chronic lung diseases and potential therapeutic approaches.

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

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

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

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

**Chairs :** Anh Tuan Dinh-Xuan (Paris, France), Thomas Geiser (Bern, Switzerland)

**09:30** **Introduction**

**09:35** **Emerging respiratory virus infections threaten pulmonary health**  
Speaker to be confirmed

**09:50** **Post-viral effects on the susceptibility of developing chronic lung diseases**  
Donald Sin (Vancouver (BC), Canada)

**10:05** **Development of paediatric asthma following viral infections**  
Sejal Saglani (London, United Kingdom)

**10:20** **The role of viruses in the pathogenesis of pulmonary fibrosis**  
Silke Meiners (München, Germany)

**10:35** **Discussion and Q&A**

**Channel 3** **Session** **09:30 - 11:00**

**Oral presentation: Pearls in asthma and respiratory burden research**

**Disease(s)** : Airway diseases

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

**Chairs** : Jennifer Quint (Wimbledon, United Kingdom), Chair to be confirmed

**Channel 1** **Session** **09:30 - 11:00**

**Oral presentation: Emerging evidence on sub-acute and long COVID-19**

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

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

**Chairs** : Laura Fregonese (London, United Kingdom), Guido Vaghegini (Volterra (PI), Italy)

**Channel 2** **Session** **09:30 - 11:00**

**Oral presentation: Advances in the diagnosis of tuberculosis, multidrug-resistant tuberculosis and nontuberculous mycobacterial disease**

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

**Chairs** : Dirk Wagner (Freiburg, Germany), Chair to be confirmed

**Channel 4** **Session** **09:30 - 11:00**

**Oral presentation: A selection of the best abstracts in respiratory physiotherapy and exercise**

**Aims** : This session includes the Best Abstract for Assembly 9, entitled "Effect of beta-alanine supplementation on muscle carnosine, oxidative and carbonyl stress, antioxidants and physical capacity in patients with COPD".

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

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

**Chairs** : Andre Nyberg (Umeå, Sweden), Arietta Spinou (London, United Kingdom)

**Channel 5** **Session** **09:30 - 11:00**

**Oral presentation: Exploring the phenotypic heterogeneity across rare diffuse parenchymal lung diseases**

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

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

**Chairs** : Francesco Bonella (Düsseldorf, Germany), Cormac McCarthy (Dublin 4, Ireland)

**Channel 6** **Session** **09:30 - 11:00**

**Oral presentation: Ethics and economics in respiratory medicine**

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

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

**Chairs** : Chair to be confirmed

**Studio Barcelona** **Session** **09:30 - 10:10**

**Guidelines session: ERS clinical practice guidelines on diagnostic of asthma in adults**

**Aims** : To present new guidelines on diagnostic 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, Patient, Physician in Pulmonary Training

**Chairs** : Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)

**09:30 Introduction****09:32 The patient's perspective in designing this guideline**  
Courtney Coleman (Sheffield (South Yorkshire), United Kingdom)**09:37 PICOs, recommendations and clinical practice guideline**  
Renaud Louis (Liège, Belgium)**09:50 Clinical case presentation**  
Iñigo Ojanguren Arranz (Barcelona, Spain)**10:00 Discussion and Q&A****Studio Paris****Session****09:30 - 11:00****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) :** Airway diseases Paediatric respiratory diseases Respiratory infections**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Respiratory therapist**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Andrew Bush (London, United Kingdom)**09:30 Introduction****09:35 Pulmonary haemorrhage in children**  
Nadia Nathan (Paris, France)**09:50 Mycoplasma pneumoniae-associated complications**  
Patrick Meyer Sauter (Zurich, Switzerland)**10:05 The lung in sickle cell disease**  
Atul Gupta (London, United Kingdom)**10:20 A child with stridor: teamwork of paediatric pulmonologists and paediatric ENT specialists**  
Bas Pullens (Rotterdam, Netherlands)**10:35 Discussion and Q&A****Studio Barcelona****Session****10:20 - 11:00****Pro-Con debate: Lung metastasectomy: let's pour some water on the fire****Aims :** To identify the recent clinical advancement in lung metastasectomy; to learn how to differentiate lung metastases on the basis of staging; to present selection of patients who may benefit from surgical treatment; to present how to identify treatment options for lung metastases.**Disease(s) :** Thoracic oncology**Method(s) :** Surgery**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist**Chairs :** Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)**10:20 Introduction****10:22 Lung metastasectomy should always be performed. The aim of new dedicated TNM staging for lung metastases**  
Marcello Migliore (Catania (CT), Italy)**10:34 An alternative to surgical metastasectomy**  
Carole Ridge (London, United Kingdom)**10:46 Discussion and Q&A**

## Channel 1 Session 11:15 - 12:30

## Challenging clinical cases: CCC Pulmonary vascular diseases

**Aims :** To describe the history, pathology, analysis and treatment of complex clinical cases in pulmonary vascular diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

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

**Tag(s) :** Clinical

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

**Chairs :** Luke Howard (London, United Kingdom), Silvia Ulrich (Zurich, Switzerland)

11:15 Introduction

11:20 **The case of hypoxaemic respiratory failure in a patient with mild COPD**  
Luca Nicola Cesare Bianchi (Rovato (Bs), Italy)

11:30 **Double edge sword**  
Sameer Vaidya (Indore (Madhya Pardesh), India)

11:40 **An unusual case of pleuritis**  
Federico Mei (Ancona (AN), Italy)

11:50 **Polycythemia and infertility**  
Charlotte Cohen (Nice, France)

12:00 **Keeping it in the family**  
Raja Muthusami (Nuneaton, Warwickshire, United Kingdom)

12:10 Discussion and Q&A

## Studio Amsterdam Session 11:15 - 12:45

## Symposium: Rare lung diseases 2021

A joint ERS and European Reference Network for rare lung diseases (ERN-LUNG) session

**Aims :** To describe aspects of rare diseases of the respiratory system that all members of respiratory care teams should be familiar with; to describe some of the new developments in the field of rare lung diseases in order to enable them help patients find expertise and the best clinical care; to explain how to cooperate across borders in order to achieve the best possible results for all patients everywhere; to present cross-border healthcare as an optimal way of providing diagnostic and therapeutic options to all patients with ultrarare diseases; to provide an update about recent developments in rare disease management; to present tools for managing patients with rare diseases and to list who to ask for expert advice about such patients.

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

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

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Radiologist, Respiratory therapist, Journalist

**Chairs :** Torsten Gerriet Blum (Berlin, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

11:15 Introduction

11:20 **Progress made in ultra-rare lung diseases**  
Maria Molina-Molina (Barcelona, Spain)

11:35 **Severe sarcoidosis: clinical features and management**  
Paolo Spagnolo (Padova (PD), Italy)

11:50 **Rare lung diseases in children: challenges for diagnosis and treatment**  
Helge Hebestreit (Wuerzburg, Germany)

12:05 **What we have learned about alpha-1-antitrypsin deficiency**  
Jan Stolk (Leiden, Netherlands)

12:20 Discussion and Q&A

## Studio Paris Session 11:15 - 12:45

## Grand round: Paediatric grand round



**Aims :** To present challenging cases of children with respiratory diseases, not specifically very rare diseases; to engage the audience in discussions about differential diagnosis, diagnostic tests and the best clinical care; to provide an update on selected topics in paediatric respiratory medicine.

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

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

**Tag(s) :** Clinical

**Target audience :** Medical Student, Paediatrician, Clinical researcher, Nurse, Physician in Pulmonary Training

**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Andrew Bush (London, United Kingdom)

**11:15 Introduction**

**11:20 Spontaneous pneumoperitoneum: do I remove the chest drain?**  
George Lawson (London, United Kingdom)

**11:40 A case of chylothorax at the age of 13 months**  
Heidi Schaballie (Belsele, Belgium)

**12:00 Bilateral interstitial pneumonia in an 8-year-old boy: not only COVID-19!**  
Maria Elisa Di Cicco (Pisa (PI), Italy)

**12:20 A 9-year-old boy with a swelling on the chest wall**  
Tamsin Thornton (Norwich, United Kingdom)

**12:40 Session wrap-up**

## Studio Barcelona

## Session

11:15 - 12:45

**Hot topics: Linking scientific mechanisms to recent clinical therapeutic advances in airway disease: why, who, when and what?**

**Aims :** To describe the role of novel therapies for airway diseases, namely, asthma, chronic obstructive pulmonary disease (COPD) and chronic cough; to describe the essential role of artificial intelligence, which will revolutionise how doctors follow and treat patients; to address common problems related to novel therapies and artificial intelligence in everyday practice in order to improve patient care.

**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

**Chairs :** Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)

**11:15 Introduction**

**11:35 Who should receive which biologic and why? Current and future approaches in severe asthma patients**  
Parameswaran Nair (Hamilton (ON), Canada)

**11:50 Will we ever be successful? Managing T2-low asthma**  
Anneke Ten Brinke (Leeuwarden, Netherlands)

**12:05 What is the scientific and clinical rationale? Triple therapy in COPD patients**  
Dave Singh (Manchester, United Kingdom)

**11:20 Will we really achieve anti-ageing lung treatments? Abnormal lung ageing in COPD**  
Corry-Anke Brandsma (Groningen, Netherlands)

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

## Studio London

## Session

11:15 - 12:45

**Hot topics: Inhale the future: ambulatory sensing technologies, digital biomarkers and explainable insights**

**Aims :** To describe the variety of remote approaches available to monitor COVID patients, including biological sampling; to review the validity (accuracy and precision) of remote data used for medical decision-making; to evaluate the optimal metrics for physical measurements such as saturation, lung function, temperature and pulse using wearable sensors and the potential to predict clinical decompensation; to assess the short- and long-term effects of this rapidly changing field with respect to routine care of patients with other diseases, including the use of machine learning and guidance.

**Disease(s) :** Interstitial lung diseases Respiratory infections**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation**Tag(s) :** Clinical, COVID, Digital health**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist**Chairs :** Thomas Geiser (Bern, Switzerland), Anh Tuan Dinh-Xuan (Paris, France)**11:15 Introduction****11:20 Telemedicine and virtual care in the era of COVID-19**  
Mara Paneroni (Mazzano (BS), Italy)**11:35 Digital biomarkers**  
Carolina Varon (Leuven, Belgium)**11:50 Remote health monitoring with wearable sensors**  
Andrea Aliverti (Milan, Italy)**12:05 Opportunities and outstanding challenges for integration in clinical practice**  
Niels H. Chavannes (Leiden, Netherlands)**12:20 Discussion and Q&A****Channel 4 Session 11:15 - 12:45****Oral presentation: Genetics and translational aspects of idiopathic pulmonary fibrosis****Disease(s) :** Interstitial lung diseases**Method(s) :** Cell and molecular biology General respiratory patient care Epidemiology Pulmonary function testing Imaging**Chairs :** Manuela Funke-Chambour (Bern, Switzerland)**Channel 5 Session 11:15 - 12:45****Oral presentation: Thoracic ultrasound: future applications and current evidence****Aims :** This session includes the Best Abstract for Assembly 14, entitled "Thoracic Ultrasound for guiding pleurodesis in malignant pleural effusion: a randomised trial".**Disease(s) :** Thoracic oncology Respiratory critical care Pulmonary vascular diseases**Method(s) :** Endoscopy and interventional pulmonology Transplantation Imaging General respiratory patient care Pulmonary function testing**Chairs :** Michiel J. Thomeer (Tielt (BT), Belgium), Rahul Bhatnagar (Bristol, United Kingdom)**Channel 6 Session 11:15 - 12:45****Oral presentation: Different treatment modalities and impact of comorbidities on sleep disordered breathing****Aims :** This session includes the Best Abstract for Assembly 4, entitled "Pitolisant long term effect in sleepy obstructive sleep apnea patients with CPAP".**Disease(s) :** Sleep and breathing disorders**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation**Chairs :** Marta Susana Monteiro Drummond Freitas (Maia, Portugal), Dries Testelmans (Leuven, Belgium)**Channel 3 Session 11:15 - 12:45****Oral presentation: New clinical and biological developments in lung cancer****Aims :** This session includes the Best Abstract for Assembly 11, entitled "Spirometry and under-diagnosis of COPD in a lung cancer screening cohort".**Disease(s) :** Airway diseases Thoracic oncology Interstitial lung diseases**Method(s) :** Pulmonary function testing Cell and molecular biology Epidemiology Endoscopy and interventional pulmonology Imaging**Chairs :** Rudolf M. Huber (Munich, Germany), Georgia Hardavella (Athens, Greece)

**Channel 2** **Session** **11:15 - 12:45****Oral presentation: Emerging respiratory diseases: state-of-the-art studies of SARS-CoV-2 infection****Disease(s)** : Airway diseases Respiratory critical care**Method(s)** : Cell and molecular biology**Chairs** : Niki Ubags (Epalinges, Switzerland), Debby Bogaert (Edinburgh, United Kingdom)**Studio Munich** **Session** **11:15 - 12:45****Lungs on fire: LoF Respiratory infections?****Aims** : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.**Disease(s)** : Respiratory infections**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Nurse, Medical Student**Chairs** : Marc Miravittles (Barcelona (CT), Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain), Tobias Welte (Hannover, Germany)**Discussants** : Pierre-Régis Burgel (Paris, France)**11:15 Introduction****11:20 Presentation of cases by the session facilitator**  
Pierre-Régis Burgel (Paris, France)**Case 1 - Author: Paula Fernandez Martinez, Spain****Case 2 - Author: Ruby Joseph K, India****Case 3 - Author: Serena Casanova, Italy****Case 4 - Author: Sophie Cottin, Belgium****12:40 Session wrap-up**

No Room	Session	11:00 - 13:00
Assembly members' meeting: ONLINE ERS General Assembly		

# INDUSTRY SPONSORED SESSIONS

Channel 1.	Session	07:45 - 09:15
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**Industry Virtual Symposium: Treatable Traits in action: Cases, decisions and data**

*Organised by GlaxoSmithKline*

**Chairs :** Peter Gibson (Newcastle, Australia), Neil C. Barnes (London, United Kingdom)

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|--------------|--|
| <b>07:45</b> | <b>Welcome and introduction</b><br>Neil C. Barnes (London, United Kingdom)   |
| <b>07:52</b> | <b>Confronting difficult-to-treat asthma: The case of a 38-year-old lady with allergies</b><br>Runa Ali (London, United Kingdom)                                   |
| <b>08:02</b> | <b>Optimising symptomatic COPD: The case of a 69-year-old ex-smoker with symptoms and exacerbations</b><br>Alberto Papi (Ferrara, Italy)                           |
| <b>08:19</b> | <b>Breaking it down: The case of a 67-year-old ex-smoker with COPD, atopy and angina</b><br>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)                   |
| <b>08:35</b> | <b>Treatable Traits approach in primary care: The case of a patient with mild asthma but poor control</b><br>Mike Thomas (Southampton (Hampshire), United Kingdom) |
| <b>08:49</b> | <b>Summary and conclusion</b><br>Neil C. Barnes (London, United Kingdom)   |
| <b>08:50</b> | <b>Q&amp;A session</b><br>Neil C. Barnes (London, United Kingdom)  |

Channel 2.	Session	08:15 - 09:15
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**Industry Virtual Symposium: Innovations in MAC-PD: beyond oral triple therapy**

*Organised by Insmad*

**Chairs :** Michael Loebinger (London, United Kingdom)

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| <b>08:15</b> | <b>Symposium overview and introduction</b><br>Michael Loebinger (London, United Kingdom)  |
| <b>08:20</b> | <b>What do the 2020 NTM-PD guidelines mean for clinical practice when treating MAC-PD?</b><br>Christoph Lange (Borstel, Germany)  |
| <b>08:35</b> | <b>Managing your MAC-PD patient - negotiating the key decision points</b><br>Natalie Lorent (Leuven, Belgium)   |
| <b>08:50</b> | <b>Antibiotic therapy for MAC-PD: managing common side-effects</b><br>Stefano Aliberti (Milano (MI), Italy)   |
| <b>09:05</b> | <b>Q&amp;A</b><br>Michael Loebinger (London, United Kingdom), Christoph Lange (Borstel, Germany), Natalie Lorent (Leuven, Belgium), Stefano Aliberti (Milano (MI), Italy) |
| <b>09:10</b> | <b>Summary and Close</b><br>Michael Loebinger (London, United Kingdom)  |

Channel 2.	Session	13:00 - 14:30
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**Industry Virtual Symposium: Latest asthma guidelines: Challenges for policy and practice**

*Organised by AstraZeneca*

**Chairs :** Eric D. Bateman (Cape Town, South Africa)

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|--------------|---|
| <b>13:00</b> | <b>Chair's welcome</b><br>Eric D. Bateman (Cape Town, South Africa)   |
| <b>13:10</b> | <b>Anti-inflammatory reliever algorithm: implementing changes in clinical practice</b><br>Richard Beasley (Wellington, New Zealand) |
| <b>13:25</b> | <b>SABINA: the asthma reliever 'pandemic'</b><br>Jennifer Quint (Wimbledon, United Kingdom)   |



**13:40** **The SABA situation: changing the status quo**  
Andrew Mcivor (Oakville (ON), Canada)

**13:55** **The patient perspective: why we need to change now**  
Tonya Winders (Hendersonville, United States of America)

**14:10** **Audience Q&A**  
Eric D. Bateman (Cape Town, South Africa), Jennifer Quint (Wimbledon, United Kingdom), Andrew Mcivor (Oakville (ON), Canada), Tonya Winders (Hendersonville, United States of America)

## Channel 6. Session 13:00 - 14:30

### Industry Virtual Symposium: Omalizumab in focus: experts, evidence and experience

*Organised by Novartis Pharma AG*

**Chairs :** Nikolaos Papadopoulos (Manchester, United Kingdom)

**13:00** **Welcome and Introduction**  
Nikolaos Papadopoulos (Manchester, United Kingdom)

#### Clinically relevant questions to include:

**13:05** **An update on long-COVID disease and the use of biologics?**  
**What impact does omalizumab have on asthma control in severe allergic asthma?**  
**What is the optimal duration of omalizumab treatment in severe allergic asthma?**  
**Can omalizumab be used during pregnancy and breastfeeding?**  
**Why is it important to assess allergy in severe asthma and nasal polyposis?**  
**Skin prick test or allergen-specific IgE – which one should be used?**  
**What are the practical considerations when recommending home use of biologics?**  
Valerie J. Lund (, United Kingdom), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

**13:40** **Summary and close**  
Nikolaos Papadopoulos (Manchester, United Kingdom)

## Channel 4. Session 13:00 - 14:30

### Industry Virtual Symposium: MDT in fibrosing ILDs: who and when?

*Organised by Boehringer Ingelheim International GmbH*

**Chairs :** Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)

**13:00** **Welcome and introduction**  
Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)

**13:05** **MDT in diagnosis: panel discussion**  
Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)

**13:20** **MDT in monitoring: panel discussion**  
Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)

**13:35** **MDT in management: panel discussion**  
Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)

**13:50** **Live Q&A**  
Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)

## Skills lab Session 15:30 - 16:15

*Organised by Philips*

**15:30** Uros Dr. Krivec

**15:48** Ivana Ivana

**16:06**

16:24

**Skills lab****Session****17:30 - 18:15***Organised by PENTAX Europe GmbH*

17:30

17:48

18:06

18:24

**Channel 2.****Session****18:15 - 19:45****Industry Virtual Symposium: Uncovering eosinophilic immune dysfunction in airways diseases***Organised by AstraZeneca***Chairs :** James D. Chalmers (Dundee (Angus), United Kingdom), Sameer Mathur (Wisconsin, United States of America)

**18:15** **Welcome and introduction**  
Sameer Mathur (Wisconsin, United States of America), James D. Chalmers (Dundee (Angus), United Kingdom)

**18:20** **Introduction to the role of eosinophils in respiratory diseases and common eosinophilic airways conditions**  
Sameer Mathur (Wisconsin, United States of America)

**18:40** **Uncovering the eosinophilic phenotype in bronchiectasis**  
James D. Chalmers (Dundee (Angus), United Kingdom)

**19:00** **Examination of the eosinophil predominant multisystem disorder – hypereosinophilic syndrome**  
Matthieu Groh (Suresnes, France)

**19:20** **Q&A session and meeting close**  
Sameer Mathur (Wisconsin, United States of America), James D. Chalmers (Dundee (Angus), United Kingdom), Matthieu Groh (Suresnes, France)

**Channel 3.****Session****18:15 - 19:45****Industry Virtual Symposium: Preventing mortality and protecting patients with COPD: a multi-disciplinary perspective***Organised by AstraZeneca***Chairs :** Bartolome R. Celli Croquer (Boston, United States of America), Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

**18:15** **Welcome, introduction, and opening remarks**  
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

**18:20** **Protecting patients: early intervention as a new paradigm in the COPD treatment landscape**  
David Price (Singapore, Singapore), David Berg (Boston, United States of America)

**18:40** **Panel discussion | Protecting patients: early intervention as a new paradigm in the COPD treatment landscape**  
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

**18:55** **Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD**  
Bartolome R. Celli Croquer (Boston, United States of America)

**19:05** **Panel discussion | Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD**  
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

**19:20** **Audience Q&A and concluding remarks**  
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

## Channel 4. Session 18:15 - 19:45

### Industry Virtual Symposium: Helping patients with COPD live their best lives: Outcomes and evidence

Organised by Boehringer Ingelheim International GmbH

**Chairs :** Sarah Jarvis (London, United Kingdom)

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|--------------|--|
| <b>18:15</b> | <b>Welcome and introduction</b><br>Sarah Jarvis (London, United Kingdom)   |
| <b>18:20</b> | <b>Evidence-based decisions: Discussion of dyspnoea and risk management in COPD</b><br>Sarah Jarvis (London, United Kingdom), MeiLan K. Han (Ann Arbor, United States of America), John R Hurst (London, United Kingdom) |
| <b>19:25</b> | <b>Live Q&amp;A and closing comments</b><br>Sarah Jarvis (London, United Kingdom), MeiLan K. Han (Ann Arbor, United States of America), John R Hurst (London, United Kingdom)  |

## Channel 1. Session 18:15 - 19:45

### Industry Virtual Symposium: COPD: Same problem, different recommendations across guidelines – What do I do?

Organised by GlaxoSmithKline

**Chairs :** Neil C. Barnes (London, United Kingdom)

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|--------------|---|
| <b>18:15</b> | <b>Introduction</b><br>Neil C. Barnes (London, United Kingdom)  |
| <b>18:18</b> | <b>Who should start with dual- versus mono- bronchodilator therapy?</b><br>Claus Vogelmeier (Marburg, Germany)  |
| <b>18:31</b> | <b>Which patients should receive ICS-containing therapy?</b><br>Jean Bourbeau (Montréal (QC), Canada)   |
| <b>18:47</b> | <b>What is the rationale to stop or continue ICS-containing therapy?</b><br>Dave Singh (Manchester, United Kingdom)                                     |
| <b>19:05</b> | <b>COPD in the frail patient: Factors affecting inhaler performance</b><br>Neil C. Barnes (London, United Kingdom), Raj Sharma (London, United Kingdom) |
| <b>19:21</b> | <b>Summary</b><br>Neil C. Barnes (London, United Kingdom)   |
| <b>19:24</b> | <b>Q&amp;A</b><br>Neil C. Barnes (London, United Kingdom)   |

## Channel 3. Session 20:00 - 21:30

### Industry Virtual Symposium: Back to the Future: alpha-1 antitrypsin and its targets. New insights gained during the COVID-19 pandemic

Organised by Grifols

**Chairs :** Francesco Blasi (Milan, Italy)

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|--------------|---|
| <b>20:00</b> | <b>Welcome and introduction</b><br>Francesco Blasi (Milan, Italy)   |
| <b>20:05</b> | <b>Alpha-1 antitrypsin for COVID-19 treatment: Anti-inflammatory properties Clinical trials with Prolastin</b><br>Noel Gerard McElvaney (Dublin, Ireland) |
| <b>20:30</b> | <b>Management of AATD patients during the Corona pandemic</b><br>Christian F. Clarenbach (Zürich, Switzerland)  |
| <b>20:30</b> | <b>Screening for AATD: New testing possibilities</b><br>Jose Luis López-Campos (Sevilla, Spain)   |

- 21:00 ALTA Award Winners 2021  
Final Discussion  
Summary and Close**  
Francesco Blasi (Milan, Italy), Noel Gerard McElvaney (Dublin, Ireland)

**Channel 2. Session 20:00 - 21:30**

**Industry Virtual Symposium: Digital support for wheeze detection in young children**

*Organised by OMRON Healthcare Europe B.V.*

**Chairs :** Jonathan Grigg (London, United Kingdom)

- 20:00 Introduction**  
Jonathan Grigg (London, United Kingdom)
- 20:05 Wheeze detection in daily practice**  
Willem van Aalderen (Amsterdam, Netherlands)
- 20:20 Overcoming limitations of therapeutic trials on preschool wheeze**  
Jonathan Grigg (London, United Kingdom)
- 20:40 Impact and usability of a digital wheeze detector in a home care setting – a pilot study**  
Stephanie Dramburg (Berlin, Germany)
- 21:00 Q&A**  
Jonathan Grigg (London, United Kingdom)

**Channel 1. Session 20:00 - 21:30**

**Industry Virtual Symposium: COPD PATIENTS DESERVE MORE: The Time To Act Is Now**

*Organised by Menarini group*

**Chairs :** Claus Vogelmeier (Marburg, Germany), Alvar Agusti (Barcelona, Spain)

- 20:00 Introduction by the Chairman**  
Alvar Agusti (Barcelona, Spain)
- 20:05 COPD patients deserve more**  
Claus Vogelmeier (Marburg, Germany)
- 20:20 Acting Early on COPD Exacerbations: Why and How?**  
Alberto Papi (Ferrara, Italy)
- 20:35 Fixed Triple Therapies in COPD: An opportunity to live Longer and Better**  
Dave Singh (Manchester, United Kingdom)
- 20:50 What's next?**  
Alvar Agusti (Barcelona, Spain)
- 21:00 Q&A and Chair's close**  
Claus Vogelmeier (Marburg, Germany)

Channel 1.	Session	07:45 - 09:15
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**Industry Virtual Symposium: The End of the Beginning? Integrating the care of COVID-19 patients into ongoing day-to-day respiratory practice**

*Organised by GlaxoSmithKline*

**Chairs :** Tobias Welte (Hannover, Germany), Alvar Agusti (Barcelona, Spain)

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|--------------|--|
| <b>07:45</b> | <b>Welcome, introductions, meeting objectives and where we are with COVID-19</b><br>Tobias Welte (Hannover, Germany)               |
| <b>07:55</b> | <b>Patients at risk of COVID-19; what about patients with respiratory chronic conditions?</b><br>Tobias Welte (Hannover, Germany)  |
| <b>08:05</b> | <b>Treatment of COVID-19 - different for respiratory patients?</b><br>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom) |
| <b>08:25</b> | <b>How do we implement our learnings into future respiratory practice?</b><br>Alvar Agusti (Barcelona, Spain)                      |
| <b>08:40</b> | <b>Q&amp;A</b><br>Tobias Welte (Hannover, Germany)   |
| <b>09:10</b> | <b>Summary and conclusion</b><br>Tobias Welte (Hannover, Germany), Alvar Agusti (Barcelona, Spain)                                 |

Channel 2.	Session	07:45 - 09:15
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**Industry Virtual Symposium: Relegating oral corticosteroids to a last resort in asthma: how do we transform clinical practice?**

*Organised by AstraZeneca*

**Chairs :** Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America)

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|--------------|---|
| <b>07:45</b> | <b>The severe asthma treatment landscape: how can we push our progress further?</b><br>Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America)  |
| <b>08:00</b> | <b>Addressing evidence gaps: the latest data for relegating OCS to a last resort</b><br>David Price (Singapore, Singapore)  |
| <b>08:15</b> | <b>Transforming care in severe asthma with PRECISION: a US perspective on OCS Stewardship</b><br>David Beuther (Denver, United States of America)   |
| <b>08:30</b> | <b>Reshaping asthma care pathways: practical tools for delivering OCS Stewardship</b><br>Janwillem W. H. Kocks (Groningen, Netherlands)   |
| <b>08:45</b> | <b>Panel discussion and audience Q&amp;A</b><br>Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America), David Price (Singapore, Singapore), Janwillem W. H. Kocks (Groningen, Netherlands), David Beuther (Denver, United States of America) |

Skills lab	Session	08:00 - 08:45
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*Organised by ResMed*

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| <b>08:00</b> |
| <b>08:18</b> |
| <b>08:36</b> |
| <b>08:54</b> |

Skills lab	Session	09:00 - 09:45
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*Organised by Vyair*

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| <b>09:00</b> |
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09:18

09:36

09:54

Channel 4.	Session	13:00 - 14:30
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### Industry Virtual Symposium: Treating COPD today: Where are the challenges and what are the solutions?

*Organised by Boehringer Ingelheim International GmbH*

**Chairs :** Sarah Jarvis (London, United Kingdom)

**13:00**     **Welcome and introduction**  
Sarah Jarvis (London, United Kingdom)

**13:05**     **Challenge 1: Recognising the burden of disease**  
**Challenge 2: Optimising pharmacological and non-pharmacological interventions**  
**Challenge 3: Matching patients and inhalers.**  
Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom),  
Arschang Valipour (Wien, Austria), Sarah Jarvis (London, United Kingdom)

**14:10**     **Q&A, discussion and closing comments**  
Sarah Jarvis (London, United Kingdom), Dave Singh (Manchester, United Kingdom), James D. Chalmers  
(Dundee (Angus), United Kingdom), Arschang Valipour (Wien, Austria)

Channel 3.	Session	13:00 - 14:30
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### Industry Virtual Symposium: The Importance of Vaccinating Against Respiratory Tract Infections in Adults

*Organised by Pfizer*

**Chairs :** Christian Theilacker (Berlin, Germany)

**13:00**     **Welcome and Introductions**  
Christian Theilacker (Berlin, Germany)

**13:05**     **Adult Pneumococcal Vaccination in an Evolving Landscape**  
Andrea Collins (Cheshire, United Kingdom)

**13:25**     **Pneumococcal Panel Discussion**  
Christian Theilacker (Berlin, Germany), Andrea Collins (Cheshire, United Kingdom)

**13:35**     **Clinical Development and Real-World Effectiveness of Pfizer-BioNTech COVID-19**  
Philip Dormitzer (New York, United States of America)

**13:55**     **Covid-19 Question & Answer Session**  
Christian Theilacker (Berlin, Germany), Philip Dormitzer (New York, United States of America)

**14:05**     **Closing Remarks**  
Christian Theilacker (Berlin, Germany)

Channel 6.	Session	13:00 - 14:30
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### Industry Virtual Symposium: Inhalation therapy science and climate change: a step forward in asthma

*Organised by Novartis Pharma AG*

**Chairs :** David Price (Singapore, Singapore)

**13:00**     **PART 1: Inhaled therapy science: a step forward**  
**Welcome and Introduction**  
David Price (Singapore, Singapore)

**13:03**     **The management cycle: a major advance**  
**Case study: DP invites each speaker to describe their approach to a case study**  
Christine Jenkins (McMahons Point (NSW), Australia)



13:13	<b>Stepping stones to asthma control: inhaled therapy science</b> <b>Panel Discussion</b> Kenneth R. Chapman (Toronto (ON), Canada)
13:28	<b>Stepping stones to patient centricity: digital science</b> <b>Panel Discussion</b> David Price (Singapore, Singapore)
13:43	<b>Summary</b>
13:45	<b>PART 2: A greener future for asthma medicine: a step forward</b> <b>Welcome and Introduction</b> David Price (Singapore, Singapore)
13:48	<b>Stepping stones to greener asthma management</b> <b>Panel Discussion</b> Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)
14:03	<b>Stepping stones to greener inhalers: what are the prospects?</b> <b>Panel Discussion</b> Kai Michael Beeh (Wiesbaden, Germany)
14:18	<b>Final discussion</b>
14:23	<b>Summary and close</b> David Price (Singapore, Singapore)

## Channel 1. Session 13:00 - 14:30

### Industry Virtual Symposium: ACT Now – Not so APPaRENT challenges in asthma management

*Organised by GlaxoSmithKline*

**Chairs :** Kenneth R. Chapman (Toronto (ON), Canada)

13:00	<b>Introduction</b> Kenneth R. Chapman (Toronto (ON), Canada)
13:05	<b>Physicians, would you know how to ACT?</b> Kenneth R. Chapman (Toronto (ON), Canada)
13:22	<b>A patient perspective on asthma control - not so APPaRENT?</b> Kim Lavoie (Montréal (QC), Canada)
13:39	<b>A call to ACTion – breaking down the barriers to asthma control</b> Giorgio Walter Canonica (Milano (MI), Italy)
13:56	<b>Summary</b> Kenneth R. Chapman (Toronto (ON), Canada)
14:02	<b>Q&amp;A</b> Kenneth R. Chapman (Toronto (ON), Canada)

## Channel 2. Session 13:00 - 14:30

### Industry Virtual Symposium: Epithelial cytokines: Fundamental to the pathobiology of asthma

*Organised by AstraZeneca and Amgen*

**Chairs :** Guy Brusselle (Ghent, Belgium), Celeste Michala Porsbjerg (Copenhagen, Denmark)

13:00	<b>Co-Chairs' welcome</b> Guy Brusselle (Ghent, Belgium), Celeste Michala Porsbjerg (Copenhagen, Denmark)
13:03	<b>Inflammation starts at the epithelium: the role of the epithelium in patients</b> Eric D. Bateman (Cape Town, South Africa), Celeste Michala Porsbjerg (Copenhagen, Denmark)
13:23	<b>Panel Q&amp;A</b> Eric D. Bateman (Cape Town, South Africa), Celeste Michala Porsbjerg (Copenhagen, Denmark)
13:33	<b>Epithelial cytokines: a new way to think about inflammation in asthma?</b> Guy Brusselle (Ghent, Belgium), Marco Caminati (Verona (VR), Italy)

**13:53 Panel Q&A**  
Guy Brusselle (Ghent, Belgium), Marco Caminati (Verona (VR), Italy)

**14:03 Audience Q&A**  
Guy Brusselle (Ghent, Belgium), Celeste Michala Porsbjerg (Copenhagen, Denmark), Eric D. Bateman (Cape Town, South Africa), Marco Caminati (Verona (VR), Italy)

**14:28 Meeting close**  
Guy Brusselle (Ghent, Belgium), Celeste Michala Porsbjerg (Copenhagen, Denmark)

## Skills lab Session 17:30 - 18:15

*Organised by Fisher & Paykel Healthcare*

**17:30**

**17:48**

**18:06**

**18:24**

## Channel 3. Session 18:15 - 19:45

### Industry Virtual Symposium: Revolution or evolution: What does the future hold in ILD?

*Organised by F. Hoffmann-La Roche Ltd.*

**18:15 Opening remarks**  
Karen Moor (Rotterdam, Netherlands)

**18:20 Advances in ILD imaging technology: contributing to an early and accurate diagnosis**  
Joseph Jacob (London, United Kingdom)

**18:40 The changing IPF treatment landscape: working for a better future for patients with IPF**  
Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom)

**19:00 Innovations to improve patient care in ILD: shaping the future of patient interactions**  
Karen Moor (Rotterdam, Netherlands)

**19:20 Q&A**  
Karen Moor (Rotterdam, Netherlands), Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom), Joseph Jacob (London, United Kingdom)

## Channel 5. Session 18:15 - 19:45

### Industry Virtual Symposium: How digital inhalers can address the human burden of chronic respiratory diseases

*Organised by Teva Pharmaceuticals Europe B.V.*

**Chairs :** John Haughney (Glasgow, United Kingdom)

**18:15 Welcome and opening remarks**  
John Haughney (Glasgow, United Kingdom)

**18:25 The human burden of chronic respiratory disease in 2021**  
Mark L. Levy (London, United Kingdom)

**18:35 What is on the horizon? Opportunities for digital inhalers**  
Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)

**18:45 Panel discussion: How can digital inhalers improve respiratory care?**  
John Haughney (Glasgow, United Kingdom), Mark L. Levy (London, United Kingdom), Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Monica Fletcher (Cuckfield, United Kingdom)

**18:55 Connected technology, connected patients; how digital inhalers can support clinical management for HCPs and patients**  
Monica Fletcher (Cuckfield, United Kingdom)

**19:10 Closing remarks**  
John Haughney (Glasgow, United Kingdom), Mark L. Levy (London, United Kingdom), Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Monica Fletcher (Cuckfield, United Kingdom)

**19:15 Panel discussion and audience Q&A**  
John Haughney (Glasgow, United Kingdom)

## Channel 4. Session 18:15 - 19:45

### Industry Virtual Symposium: The role and timing of antiviral therapy in the treatment of hospitalised patients with COVID-19

*Organised by Gilead Sciences Europe Ltd*

**Aims :** Since the start of the COVID-19 pandemic multiple treatment approaches have been explored. This session examines the science behind antiviral therapy, and the rationale to target SARS-CoV-2 replication directly. Attendees will hear key data supporting the most effective use of antiviral medicine and witness scientific debates about the timing of therapy initiation. By the completion of the session, the audience will understand the latest data supporting the role of antiviral medication and also consider the potential future direction of antivirals for the prevention of the serious and sometimes fatal complications of SARS-CoV-2.

**Chairs :** Andrew Ustianowski (Manchester, United Kingdom)

**18:15 The changing face of the COVID-19 pandemic**  
Andrew Ustianowski (Manchester, United Kingdom)

**18:25 Pathophysiology and treatment rationales**  
Andrew Ustianowski (Manchester, United Kingdom), Chidinma Chima-Melton (Los Angeles, United States of America)

**18:40 Trials with antivirals, combination therapies and immunomodulators**  
Leticia Kawano-Dourado (Sao Paulo, Brazil), Thomas Benfield (Hvidovre, Denmark)

**19:00 How can antiviral and combination therapies optimise patient outcomes?**  
Andrew Ustianowski (Manchester, United Kingdom), Thomas Benfield (Hvidovre, Denmark), Leticia Kawano-Dourado (Sao Paulo, Brazil), Chidinma Chima-Melton (Los Angeles, United States of America)

**19:30 Live audience Q&A and meeting close**  
Andrew Ustianowski (Manchester, United Kingdom), Thomas Benfield (Hvidovre, Denmark), Leticia Kawano-Dourado (Sao Paulo, Brazil), Chidinma Chima-Melton (Los Angeles, United States of America)

## Channel 1. Session 18:15 - 19:45

### Industry Virtual Symposium: Mepolizumab: Translating clinical trial evidence to real world patients

*Organised by GlaxoSmithKline*

**Chairs :** Peter Howarth (Brentford, United Kingdom)

**18:15 Welcome**  
Peter Howarth (Brentford, United Kingdom)

**18:25 REALITI-A: 1-year analysis of the global, prospective RWE study**  
Stephanie Korn (Mainz, Germany)

**18:45 COMET: An RCT designed to address real world clinical questions**  
Arnaud Bourdin (Montpellier Cedex 5, France)

**18:55 Translating clinical trial evidence to real world patients: An expert discussion about routine clinical questions**  
Peter Howarth (Brentford, United Kingdom), Stephanie Korn (Mainz, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)

**19:15 Closing**  
Peter Howarth (Brentford, United Kingdom)

## Channel 2. Session 18:15 - 19:45

### Industry Virtual Symposium: COVID-19: Impact of Vaccines and Emerging Therapies in Respiratory Medicine

*Organised by AstraZeneca*

**Chairs :** Tobias Welte (Hannover, Germany)

**18:15** **Welcome & Introduction: Where are we today in defeating COVID-19?**  
Tobias Welte (Hannover, Germany)

**18:30** **New frontiers in monoclonal antibody therapies for COVID-19**

**18:55** **COVID-19: Advances in practice and learnings for respiratory medicine**  
Mona Al-Ahmad (Kuwait, Kuwait)

**19:20** **Panel discussion**  
Tobias Welte (Hannover, Germany), Mona Al-Ahmad (Kuwait, Kuwait)

## Channel 4. Session 20:00 - 21:00

### Industry Virtual Symposium: Treprostinil use in PAH: Advances in clinical evidences

*Organised by Ferrer*

**Chairs :** Ekkehard Grünig (Heidelberg, Germany)

**20:00** **Introduction**  
Ekkehard Grünig (Heidelberg, Germany)

**20:05** **Oral treprostinil: insights from FREEDOM studies and practical considerations**  
R James White (Rochester, United States of America)

**20:25** **Parenteral treprostinil: afterload reduction in the early upfront use, hemodynamic and risk reduction effects**  
Roberto Badagliacca (Rome, Italy)

**20:45** **Questions & Answers**  
Ekkehard Grünig (Heidelberg, Germany), R James White (Rochester, United States of America), Roberto Badagliacca (Rome, Italy)

## Channel 2. Session 20:00 - 21:30

### Industry Virtual Symposium: Harvesting the fruits of pulmonary disease research - learnings from the COVID-19 pandemic

*Organised by CSL Behring GmbH*

**Chairs :** Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland)

**20:00** **Session 1: Welcome, introductions and meeting objectives**  
Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland)

**20:05** **Session 2: Planning for success: Research priorities in AATD**  
Maria Campos Miranda Duarte Sucena (Porto, Portugal)

**20:15** **Session 3: Optimising laboratory diagnosis of AATD**  
Ilaria Ferrarotti (Pavia (PV), Italy)

**20:25** **Session 4: Paradigm shifts in AATD: The impact of COVID-19 on patient management**  
Felix J.F. Herth (Heidelberg, Germany)

**20:35** **Session 1-4: Live Q&A**

**20:50** **Session 5: Strategies to prevent and manage severe COVID-19**  
Dave Singh (Manchester, United Kingdom)

**21:10** **Session 5: Live Q&A**

**21:25** **Session 6: Summary and closing remarks**  
Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland)

## Channel 3. Session 20:00 - 21:30

### Industry Virtual Symposium: High-Flow Therapy (HFT): where are we today?

*Organised by ResMed*

**Chairs :** Miguel R. Gonçalves (Porto, Portugal), Dora Triché (Nürnberg, Germany)

- 
- 20:00**    **Summary of the evidence on home HFT for COPD**  
Dora Triché (Nürnberg, Germany)
- 
- 20:24**    **HFT in post-COVID patients from hospital to home: experiences from Spain**  
Javier Sayas Catalan (Madrid, Spain)
- 
- 20:44**    **HFT from hospital to home: experiences from Italy**  
Claudia Crimi (Catania (CT), Italy)
- 
- 21:04**    **Live Q&A Session**  
Miguel R. Gonçalves (Porto, Portugal), Dora Triché (Nürnberg, Germany), Javier Sayas Catalan (Madrid, Spain), Claudia Crimi (Catania (CT), Italy)
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Channel 4.	Session	07:45 - 09:15
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### Industry Virtual Symposium: COVID-19 and lung injury

Organised by Boehringer Ingelheim International GmbH

Chairs : Tobias Welte (Hannover, Germany)

- |       |  |
|-------|--|
| 07:45 | <b>Welcome and introduction</b><br>Tobias Welte (Hannover, Germany)  |
| 07:50 | <b>Acute lung injury in COVID-19</b><br>Tobias Welte (Hannover, Germany)   |
| 08:05 | <b>Best practices in the management of patients with COVID-19</b><br>Leticia Kawano-Dourado (Sao Paulo, Brazil)                                  |
| 08:20 | <b>Challenges in the management of patients post-COVID-19</b><br>Andreas Rembert Koczulla (Marburg, Germany)                                     |
| 08:35 | <b>Live Q&amp;A</b><br>Tobias Welte (Hannover, Germany), Leticia Kawano-Dourado (Sao Paulo, Brazil), Andreas Rembert Koczulla (Marburg, Germany) |

Channel 1.	Session	07:45 - 09:15
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### Industry Virtual Symposium: The link between Air Pollution and Sars-Cov-2. What is the evidence telling us?

Organised by GSK Consumer Healthcare

- |       |   |
|-------|---|
| 07:45 | <b>Welcome, introduction and agenda</b><br>Christopher Carlsten (Vancouver (BC), Canada)  |
| 07:50 | <b>2COVID-19, SARS-CoV-2 and air pollution: attempts by epidemiology to connect the dots</b><br>Christopher Carlsten (Vancouver (BC), Canada)   |
| 08:15 | <b>COVID-19, SARS-CoV-2 and air pollution: mechanisms linking COVID-19 with air pollution</b><br>Kian Fan Chung (London, United Kingdom)  |
| 08:45 | <b>Q&amp;A/Discussion</b><br>Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Gary Wong (Shatin, Hong Kong), Sundeep Santosh Salvi (Pune (Maharashtra), India) |
| 09:10 | <b>Closing remarks</b><br>Christopher Carlsten (Vancouver (BC), Canada)   |

Skills lab	Session	09:00 - 09:45
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Organised by Pulmonx

- |       |
|-------|
| 09:00 |
| 09:18 |
| 09:36 |
| 09:54 |

Channel 4.	Session	13:00 - 14:30
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### Industry Virtual Symposium: Addressing challenges in the treatment of fibrosing ILDs

Organised by Boehringer Ingelheim International GmbH

Chairs : Marlies S. Wijsenbeek (Rotterdam, Netherlands)

- |       |  |
|-------|--|
| 13:00 | <b>Welcome and introduction</b><br>Marlies S. Wijsenbeek (Rotterdam, Netherlands)          |
| 13:05 | <b>How should we define progression of ILD?</b><br>Toby Maher (St. Albans, United Kingdom) |



**13:20** **How should we treat patients with progressive fibrosing ILDs?**  
Elisabetta Renzoni (London, United Kingdom)

**13:35** **How can we help patients with ILDs to “live well”?**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

**13:50** **Live Q&A**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Toby Maher (St. Albans, United Kingdom), Elisabetta Renzoni (London, United Kingdom)

## Channel 1. Session 13:00 - 14:30

### Industry Virtual Symposium: Eosinophil-driven diseases: An unmet need and clinical challenge

*Organised by GlaxoSmithKline*

**Chairs :** Peter Howarth (Brentford, United Kingdom), Florence Schleich (Liège, Belgium)

**13:00** **Welcome**  
Peter Howarth (Brentford, United Kingdom), Florence Schleich (Liège, Belgium)

**13:05** **Eosinophils in health and disease**  
Michael E. Wechsler (Denver, United States of America)

**13:20** **Differential diagnosis of eosinophilic diseases**  
Florence Roufosse (Brussels, Belgium)

**13:35** **Overview of a patient journey with eosinophilia**  
Florence Schleich (Liège, Belgium)

**13:45** **Discussion: Differential diagnosis of a patient with eosinophilia**  
Michael E. Wechsler (Denver, United States of America), Florence Roufosse (Brussels, Belgium), Claire Hopkins (London, United Kingdom), Florence Schleich (Liège, Belgium)

**14:00** **Closing remarks**  
Peter Howarth (Brentford, United Kingdom)

**14:05** **Q&A**  
Peter H. Howarth (Southampton (Hampshire), United Kingdom)

## Channel 3. Session 13:00 - 14:30

### Industry Virtual Symposium: Benefits of Remote Management and Patient-reported Outcomes in Delivering CPAP Therapy

*Organised by ResMed*

**Chairs :** Adam Benjafield (Sydney, Australia), Ludger Grote (Göteborg, Sweden)

**13:00** **The role of telemedicine during the COVID-19 Pandemic**  
Sophia E. Schiza (Heraklion, Greece)

**13:24** **Live Q&A Session with Sophia Schiza**  
Sophia E. Schiza (Heraklion, Greece)

**13:29** **The value of patient-reported outcomes in CPAP therapy management**  
Peter A. Cistulli (St Leonards (NSW), Australia)

**13:49** **Impact of remote management and patient engagement on CPAP therapy**  
Adam Benjafield (Sydney, Australia)

**14:09** **Live Q&A Session**  
Ludger Grote (Göteborg, Sweden), Adam Benjafield (Sydney, Australia), Sophia E. Schiza (Heraklion, Greece), Peter A. Cistulli (St Leonards (NSW), Australia)

## Channel 6. Session 13:00 - 14:30

### Industry Virtual Symposium: Unlock every breath: finding the right key to improve respiratory therapy

*Organised by Chiesi Farmaceutici S.p.A.*

**Chairs :** Dave Singh (Manchester, United Kingdom)

**13:00 Introduction and foreword**  
Dave Singh (Manchester, United Kingdom)

**13:05 A key fitting the lock - Role of small airways and extrafine formulations**  
Monica Kraft (Tucson, United States of America)

**13:25 Unlocking the potential of inhalation devices**  
Omar S. Usmani (London, United Kingdom)

**13:40 Third time's a charm - Role of triple therapy in asthma**  
Alberto Papi (Ferrara, Italy)

**14:00 Q&A**  
Dave Singh (Manchester, United Kingdom), Monica Kraft (Tucson, United States of America), Omar S. Usmani (London, United Kingdom), Alberto Papi (Ferrara, Italy)

## Skills lab Session 15:30 - 16:15

*Organised by Olympus Europa SE & Co. KG*

**15:30**

**15:48**

**16:06**

**16:24**

## Skills lab Session 16:30 - 17:15

*Organised by Loewenstein*

**16:30**

**16:48**

**17:06**

**17:24**

## Channel 4. Session 18:15 - 19:45

### Industry Virtual Symposium: Myth-busting in fibrosing ILDs

*Organised by Boehringer Ingelheim International GmbH*

**Chairs :** Bruno Crestani (Paris, France)

**18:15 Myths in fibrosing ILDs**  
Bruno Crestani (Paris, France)

**18:25 Was INBUILD a collection of trials in individual diseases?**  
Kevin R. Flaherty (Pinckney, United States of America)

**18:40 Do only patients who have a UIP pattern need antifibrotic therapy?**  
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

**18:50 Does SSc-ILD progress too slowly to warrant treatment with nintedanib?**  
Michael Kreuter (Heidelberg, Germany)

**19:05 Live Q&A**  
Bruno Crestani (Paris, France), Kevin R. Flaherty (Pinckney, United States of America), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Michael Kreuter (Heidelberg, Germany)

## Channel 2. Session 18:15 - 19:45

### Industry Virtual Symposium: EDS management in OSA : The new paradigm

*Organised by Bioprojet Pharma*

**Chairs :** Fernando Eduardo Barbe Illa (Lleida, Spain)

**18:15** **A new paradigm: the therapeutic place of drugs**  
Sonya Craig (Liverpool, United Kingdom)

**18:30** **The Histamine pathway, a new approach**  
Jean-Louis Pépin (Grenoble, France)

**18:45** **Clinical cases**  
Winfried J. Randerath (Solingen, Germany)

**19:00** **Q&A**  
Sonya Craig (Liverpool, United Kingdom), Winfried J. Randerath (Solingen, Germany), Jean-Louis Pépin (Grenoble, France)

**19:15**

**19:30**

### Channel 3. Session 18:15 - 19:45

#### Industry Virtual Symposium: Improving asthma & COPD outcomes in 2021: Approaches to empower patients

*Organised by Orion and Menarini*

**Chairs :** Eric D. Bateman (Cape Town, South Africa)

**18:15** **Welcome: Introduction and housekeeping**  
Eric D. Bateman (Cape Town, South Africa)

**18:21** **Personalising treatment in COPD: The case for ICS**  
Alvar Agusti (Barcelona, Spain)

**18:39** **Selecting the appropriate device for personalised management of asthma and COPD**  
Anna Murphy (Leicester (Leicestershire), United Kingdom)

**18:57** **The patient perspective on ICS/formoterol as reliever for mild asthma: Theory and Practice**  
Eric D. Bateman (Cape Town, South Africa)

**19:15** **Live Q&A panel discussion**  
Eric D. Bateman (Cape Town, South Africa), Alvar Agusti (Barcelona, Spain), Anna Murphy (Leicester (Leicestershire), United Kingdom)

### Channel 6. Session 18:15 - 19:15

#### Industry Virtual Symposium: Pulmonary Hypertension associated with Interstitial Lung Disease

*Organised by Ferrer*

**Chairs :** Horst Olschewski (Graz, Austria)

**18:15** **Introduction**  
Horst Olschewski (Graz, Austria)

**18:20** **Pulmonary hypertension associated with interstitial lung disease: current clinical and treatment approach**  
Steven D Nathan (Falls Church, United States of America)

**18:40** **Best practices in pulmonary hypertension associated with interstitial lung disease: importance of early referral and diagnosis**  
David Kelly (Norwich (Norfolk), United Kingdom)

**19:00** **Questions & Answers**  
Horst Olschewski (Graz, Austria), Steven D Nathan (Falls Church, United States of America), David Kelly (Norwich (Norfolk), United Kingdom)

### Channel 2. Session 20:00 - 21:30

#### Industry Virtual Symposium: Detecting Genomic UIP Pattern to Improve ILD Diagnosis

*Organised by Veracyte*

**Chairs :** Sangeeta Bhorade (Chicago, United States of America)

- 20:00 Introduction**  
Sangeeta Bhorade (Chicago, United States of America)
- 
- 20:05 An Overview of the Diagnostic challenges in ILD**  
Luca Richeldi (Roma, Italy)
- 
- 20:20 Clinical validation studies of Envisia Genomic Classifier**  
Michael Kreuter (Heidelberg, Germany)
- 
- 20:35 Envisia Genomic Classifier Utility in ILD Diagnosis and Prognosis – Patient Cases**  
Mary Beth Scholand (Utah, United States of America)
- 
- 20:50 Q&A**

## Channel 1. Session 20:00 - 21:30

### Industry Virtual Symposium: What are the challenges and solutions for managing patients with COPD in 2021

*Organised by GlaxoSmithKline*

**Chairs :** MeiLan K. Han (Ann Arbor, United States of America)

- 20:00 Introduction**  
MeiLan K. Han (Ann Arbor, United States of America)
- 
- 20:05 COVID-19 learnings: Remote assessment**  
Janwillem W. H. Kocks (Groningen, Netherlands)
- 
- 20:20 Eosinophils in clinical practice**  
MeiLan K. Han (Ann Arbor, United States of America)
- 
- 20:33 COPD & bronchiectasis**  
James D. Chalmers (Dundee (Angus), United Kingdom)
- 
- 20:49 Vaccination**  
Tobias Welte (Hannover, Germany)
- 
- 21:01 Summary**  
MeiLan K. Han (Ann Arbor, United States of America)
- 
- 21:04 Q&A**  
MeiLan K. Han (Ann Arbor, United States of America)

## Channel 4. Session 20:00 - 21:30

### Industry Virtual Symposium: Asthma and COPD management – where are we now, and where could we be in the future?

*Organised by Teva Pharmaceuticals Europe B.V.*

**Chairs :** Peter J. Barnes (London, United Kingdom)

- 20:00 Introduction**  
Peter J. Barnes (London, United Kingdom)
- 
- 20:05 Asthma and COPD management in 2021**  
Peter J. Barnes (London, United Kingdom)
- 
- 20:15 Improving our standards of severe asthma management**  
Andrew Menzies-Gow (London, United Kingdom)
- 
- 20:30 Panel discussion: Present and future care for respiratory diseases – how can we raise the bar?**  
Peter J. Barnes (London, United Kingdom), Andrew Menzies-Gow (London, United Kingdom), Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)
- 
- 20:40 The digital age: The future of respiratory disease care**  
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)
- 
- 20:55 Closing remarks**  
Peter J. Barnes (London, United Kingdom)

**21:00** **Panel discussion, audience Q&A and close**  
Peter J. Barnes (London, United Kingdom), Andrew Menzies-Gow (London, United Kingdom), Henry  
Chrystyn (Bingley (West Yorkshire), United Kingdom)

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