



ERS EUROPEAN
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FINAL PROGRAMME

Respiratory Failure and Mechanical Ventilation Conference

13-15 February 2020
Berlin, Germany

[ERSNET.ORG](https://www.ersnet.org)

WELCOME FROM THE CONFERENCE CHAIR



Leo Heunks
CONFERENCE CHAIR

I am delighted to welcome you to the first ever ERS Respiratory Failure and Mechanical Ventilation Conference. This exciting event has been developed around a combination of cutting-edge scientific sessions and interactive educational content, and as conference chair it is a true pleasure to be able to offer this to our members and healthcare professionals.

The conference programme has been developed around three main tracks - adult acute respiratory failure, chronic respiratory failure and paediatric respiratory failure. We have listened to feedback from participants of other ERS courses and our organising committee have designed topic areas with the delegates' needs at the forefront of their thinking. This was no easy task to ensure that the requirements of pulmonologists, paediatricians, intensivists and other professionals working in critical care were catered for. However, we are confident that the programme will provide something for everyone.

I would also like to encourage delegates to utilise choice during your time at the conference. You are welcome to follow a particular track throughout, however the flexibility of the conference means that you are free to attend any session from the programme if this better matches your interests.

You will find a focus on interactive sessions, and this will include the ability to participate in hands-on practical skills sessions and presentations of original research and case reports. Additionally, the conference will provide you with access to the experts in the field.

Furthermore, the conference will also provide invaluable networking opportunities within the community. Personally, I find the chance for knowledge exchange and ideas sharing with colleagues and peers to be a key element in contributing to professional development. Throughout the conference programme you will have the chance to personally meet the experts in the field.

I would like to thank those of you who have submitted cases and abstracts for presentation or discussion at the event. Your contributions are vital in making the content of the conference relevant and beneficial for participants.

Our host city is a diverse and vibrant European capital and is a fitting venue for what promises to be a stimulating and successful event. I look forward to welcoming you to Berlin.

Leo Heunks
Conference chair

OVERVIEW PROGRAMME

THURSDAY, 13.02.2020

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure
- Industry sessions
- **LIVE** Live streaming session

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander I
08:00-10:00				
<div>OPENING SESSION</div> <div>Understanding respiratory physiology</div> <div> LIVE</div>				
10:00-10:30 Break				
10:30-12:00			10:15-12:35	
<div>SYMPOSIUM</div> <div>Pediatric mechanical ventilation recommendations</div> <div> LIVE</div>	<div>SYMPOSIUM</div> <div>Getting the basic right</div> <div> LIVE</div>	<div>SYMPOSIUM</div> <div>Non-invasive ventilation (NIV) in neuromuscular disorders</div> <div> LIVE</div>	<div>SKILLS WORKSHOP*</div> <div>Respiratory monitoring</div>	
12:00-12:50 Lunch Break				
12:50-14:00				
<div>CASE BASED</div> <div>Monitoring of mechanical ventilation in children</div> <div> LIVE</div>	<div>CASE BASED</div> <div>Monitoring the ventilated patient</div> <div> LIVE</div>	<div>CASE BASED</div> <div>Noninvasive ventilation - practical aspects</div> <div> LIVE</div>		
14:10-15:10				
<div>ORAL POSTER DISCUSSION</div> <div>Invasive mechanical ventilation</div>	<div>INDUSTRY SYMPOSIUM</div> <div><i>Breas</i></div> <div>Ventilator integrated polygraphy: The latest monitoring solutions for NIV</div> <div> LIVE</div>	<div>ORAL POSTER DISCUSSION</div> <div>Chronic noninvasive ventilation</div>	<div>ORAL POSTER DISCUSSION</div> <div>High flow nasal therapy and respiratory muscles</div>	
14:00-15:15 Break				
15:30-17:30			14:10-16:30	
<div>PRO/CON Debate</div> <div>Controversies in patients with acute respiratory failure</div> <div> LIVE</div>			<div>SKILLS WORKSHOP*</div> <div>Respiratory monitoring</div>	

*additional registration required

OVERVIEW PROGRAMME

FRIDAY, 14.02.2020

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure
- Industry sessions
- **LIVE** Live streaming session

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander I
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08:00-09:30		
SYMPOSIUM Specific ventilation strategies in children ■ LIVE	SYMPOSIUM Mechanical ventilation in specific cases ■ LIVE	SYMPOSIUM Non-invasive ventilation (NIV) in COPD ■ LIVE

09:30-10:00 Break

10:00-12:00
SYMPOSIUM ■ LIVE Adverse effects of mechanical ventilation

09:45-12:05
SKILLS WORKSHOP* How to set the ventilator based on individual conditions

12:00-13:00 Lunch Break

13:00-14:00		
MEET THE EXPERT Weaning failure in children ■ LIVE	MEET THE EXPERT The practice of sedation in critically ill patients ■ LIVE	MEET THE EXPERT Sleep-related hypoventilation ■ LIVE

14:10-15:10			
ORAL POSTER DISCUSSION Acute noninvasive ventilation	INDUSTRY SYMPOSIUM <i>Fisher & Paykel Healthcare</i> High flow therapy: A paradigm shift from oxygen therapy to respiratory support	ORAL POSTER DISCUSSION Chronic obstructive pulmonary disease	ORAL POSTER DISCUSSION Paediatrics and Quality of life

14:15-15:15 Break

15:15-17:15	
SYMPOSIUM Noninvasive ventilation and high flow therapy (HFNT) ■ LIVE	SYMPOSIUM Prolonged weaning ■ LIVE

14:10-16:30
SKILLS WORKSHOP* How to set the ventilator based on individual conditions

17:30-19:00
INDUSTRY SYMPOSIUM <i>Philips</i> Advances in NIV therapy ■ LIVE










*additional registration required

OVERVIEW PROGRAMME

SATURDAY, 15.02.2020

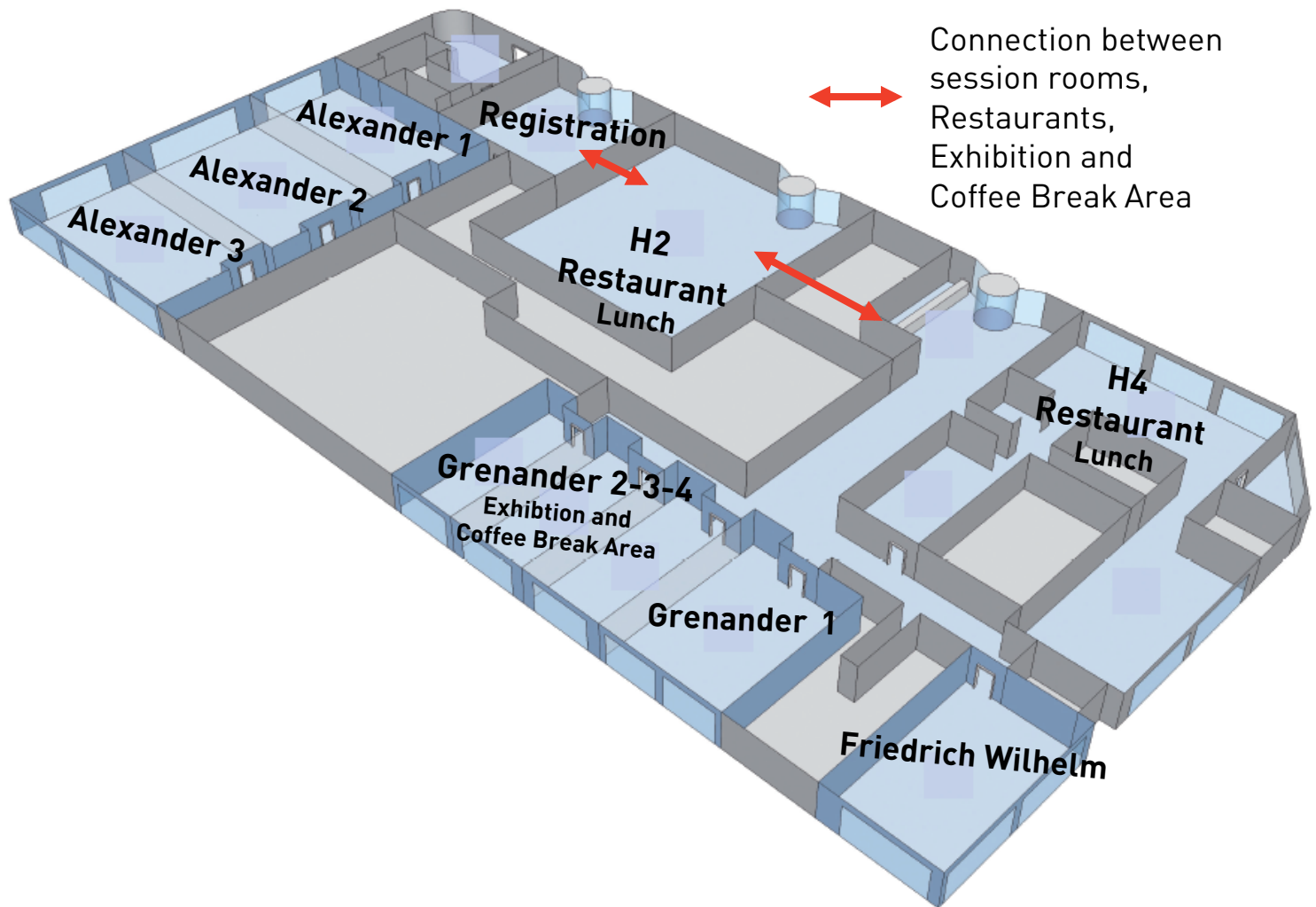
- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure
- LIVE Live streaming session

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander IV
08:00-09:30				
SYMPOSIUM Noninvasive ventilation outside the ICU 	SYMPOSIUM Rescue therapies for respiratory failure 	SYMPOSIUM  Health-related quality (HRQL) of life in patients with long-term ventilation		
09:30-10:00 Break			09.45-12:05	
	10:00-11:15		SKILLS WORKSHOP* How to set the ventilator based on individual conditions in children	
	SYMPOSIUM Diagnostic techniques during ventilation 			
11:30-12:30				
CASE BASED Noninvasive ventilation and noninvasive CPAP in the PICU 	MEET THE EXPERT Understanding the ventilator waveform 	MEET THE EXPERT Measurements of nocturnal gas exchange 		
12:30-13:30 Lunch Break			13:00-15:20	
	13:30-15:30		SKILLS WORKSHOPS* Core competency in mechanical ventilation	
	CASE BASED Weaning from mechanical ventilation 	CASE BASED Problem-solving - Case studies of NIV problems 		
15:15-15:45 Break				
	15:45-17:20			
	CLOSING SESSION YEAR IN PREVIEW Paediatric- Acute - Chronic 			

*additional registration required

VENUE MAP



≡ PROGRAMME

This information was up-to-date on 12 February 2020

08:00 - 10:00

*Live streamed***Symposium: Opening session: Understanding respiratory physiology****Aims :** To provide an introduction of respiratory physiology.**Disease(s) :** Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure**Target audience :** Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Scientist, Student**Chairs :** Lise Piquilloud (Lausanne, Switzerland), Anita Simonds (London, United Kingdom)**08:00** **Welcome and introductory word by the Conference Chair**
Leo Heunks (Amsterdam, Netherlands)**08:05** **European Lung Foundation - Video****08:10** **History of mechanical ventilation**
Martin J. Tobin (Hines, United States of America)**08:40** **Basics of respiratory drive and respiratory mechanics**
Leo Heunks (Amsterdam, Netherlands)**09:20** **Impaired gas exchange**
Stefano Nava (Bologna (BO), Italy)

10:30 - 12:00

*Live streamed***Symposium: Paediatric mechanical ventilation recommendations****Aims :** To receive an update on the most recent recommendations and data on mechanical ventilation in children and preterms and paediatric acute respiratory distress syndrome (ARDS).**Disease(s) :** Paediatric respiratory failure**Target audience :** Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Researcher, Respiratory physician, Respiratory therapist, Sleep specialist/technologist**Chairs :** Linda Corel (Rotterdam, Netherlands), Christopher Milesi (Montpellier, France)**10:30** **Recommendations for mechanical ventilation in children****11:00** **Recommendations for mechanical ventilation in preterms**
Hendrik Fischer (Berlin, Germany)**11:30** **Ventilation strategies in paediatric ARDS: are they different in children as compared to adults?**
Guillaume Emeriaud (Montreal, Canada)

10:30 - 12:00

*Live streamed***Symposium: Getting the basic right****Different modes of ventilation****Aims :** To learn the different modes of ventilation.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Respiratory physician, Trainee**Chairs :** Lieuwe Bos (Amsterdam, Netherlands), Lara Pisani (Bologna (BO), Italy)**10:30** **Controlled ventilator modes**
Paolo Navalesi (Padova, Italy)**11:00** **Partially supported modes**
Lise Piquilloud (Lausanne, Switzerland)**11:30** **NIV modes: different from IMV**
Elise Morawiec (Paris, France)

10:30 - 12:00

*Live streamed***Symposium: Noninvasive ventilation (NIV) in neuromuscular disorders****Aims :** To elucidate developments in mechanical ventilation in patients with neuromuscular disorders.**Disease(s) :** Chronic respiratory failure Paediatric respiratory failure**Target audience :** Anaesthesiologist, Clinician, Intensivist/critical care physician, Junior member, Nurse, Paediatrician, Patient, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist**Chairs :** Wolfram Windisch (Cologne, Germany), Martí Pons Òdena (Barcelona, Spain)**10:30** **Role of neuromuscular diseases in pulmonary medicine**
Wolfram Windisch (Cologne, Germany)**11:00** **NIV in rapidly progressive diseases: when to start?**
Anita Simonds (London, United Kingdom)**11:30** **Cough assisting**
Peter J. Wijkstra (Groningen, Netherlands)

12:50 - 14:00

*Live streamed***Case-based session: Noninvasive ventilation - practical aspects****Aims :** To approach different scenario in which volume-target ventilation may clearly improve efficacy of ventilation and understand possible limits and traps of different algorithms and ventilators used; To discuss the application of other tools in alternative to long-term NIV.**Disease(s) :** Chronic respiratory failure**Target audience :** Clinician, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Sleep specialist/technologist**Chairs :** Friederike Sophie Magnet (Köln, Germany)**12:50** **Target volume ventilation: when and how?**
Cesare Gregoretti (Palermo, Italy)**13:05** **Case presentation: Advanced Physiological Monitoring during COPD Exacerbation and Nasal High-Flow Administration**
Rebecca D'Cruz (London, United Kingdom)**13:20** **Case presentation: Neuromuscular Disorders, a day-to-day challenge**
Joana Batista Correia (Viseu, Portugal)**13:30** **Case presentation: NIV-induced neck lymphoedema in OSA-COPD overlap syndrome: a case report**
Ivana Paranicova (Košice, Slovakia)**13:45** **Alternatives to long-term NIV**
Lara Pisani (Bologna (BO), Italy)

12:50 - 14:00

*Live streamed***Case-based session: Monitoring of mechanical ventilation in children****Aims :** To provide participants with practical information on the monitoring of mechanical ventilation in children and its usefulness.**Disease(s) :** Paediatric respiratory failure**Target audience :** Clinician, Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Respiratory physician, Sleep specialist/technologist**Chairs :** Christopher Milesi (Montpellier, France)**12:50** **Monitoring of invasive ventilation****13:25** **Patient-ventilator interaction: assessment and clinical relevance**
Guillaume Emeriaud (Montreal, Canada)

12:50 - 14:00

*Live streamed***Case-based session: Monitoring the ventilated patient****Aims :** To learn about advanced respiratory mechanics and monitoring of ARDS patients.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee**Chairs :** Alexandre Demoule (Paris, France)**12:50** **Advanced respiratory mechanics**
Leo Heunks (Amsterdam, Netherlands)**13:00** **Case presentation: A case of life threatening asthma and pneumomediastinum**
Khaled Hussein (Assiut, Egypt)**13:10** **Case presentation: A fatal endobronchial mucormycosis mimicking as endobronchial tuberculosis**
Hae-Seong Nam (Incheon, Republic of Korea)**13:20** **Case presentation: Acute respiratory failure due to hypoventilation associated to diaphragmatic dysfunction**
Sónia Isabel Silva Guerra (Viseu, Portugal)**13:30** **Case presentation: Respiratory insufficiency in a patient with rare mitochondrial myopathy T>C transition at position 13271 in MTND5 gene**
Sankanika Roy (Asian/Asian British, United Kingdom)**13:40** **Case presentation: Acute Flaccid Paralysis by Enterovirus D68 Infection-the beginning of Polio epidemic?**
Syeda Nafisa (Nottingham, United Kingdom)**13:50** **ARDS: state of the art**
Lieuwe Bos (Amsterdam, Netherlands)

15:30 - 17:30

*Live streamed***Pro and con debate: Controversies in patients with acute respiratory failure****Aims :** To tackle three different controversial issue in the treatment of acute de novo respiratory failure, like the utility and effectiveness of steroid therapy, the rationale for performing lung biopsy in ARDS and finally the potential danger and utility of NIV to treat de novo respiratory failure.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Intensivist/critical care physician, Junior member, Pulmonologist, Respiratory therapist**Chairs :** Lise Piquilloud (Lausanne, Switzerland)**15:30** **PRO - Lung biopsy in ARDS**
Lieuwe Bos (Amsterdam, Netherlands)**15:40** **CON - Lung biopsy in ARDS**
Christian Karagiannidis (Cologne, Germany)**15:50** **Discussion****16:10** **PRO - NIV in acute hypoxemic failure**
Paolo Navalesi (Padova, Italy)**16:20** **CON - NIV in acute hypoxemic failure**
Alexandre Demoule (Paris, France)**16:30** **Discussion****16:50** **PRO - Steroids in ARDS**
Stefano Nava (Bologna (BO), Italy)**17:00** **CON - Steroids in ARDS**
Pieter Roel Tuinman (Amsterdam, Netherlands)**17:10** **Discussion**

10:15 - 12:35

Skills workshop: Respiratory monitoring

Aims : To learn to visualize the diaphragm and the lung using ultrasound and how it can help in diagnosis of respiratory failure; to know the practical aspects of esophageal balloon insertion can how esophageal balloon can help in medical decision making; to learn the interpretation of signals derived from esophageal balloon.

Disease(s) : Adult acute respiratory failure

Target audience : Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist

Chairs : Alexandre Demoule (Paris, France)

Introduction**Diaphragm ultrasound**

Pieter Roel Tuinman (Amsterdam, Netherlands)

Lung ultrasound

Martin Dres (Paris, France)

Esophageal balloon for monitoring breathing effort and transpulmonary pressure

Heder de Vries (Amsterdam, Netherlands)

14:10 - 16:30

Skills workshop: Respiratory monitoring

Aims : To learn to visualize the diaphragm and the lung using ultrasound and how it can help in diagnosis of respiratory failure; to know the practical aspects of esophageal balloon insertion can how esophageal balloon can help in medical decision making; to learn the interpretation of signals derived from esophageal balloon.

Disease(s) : Adult acute respiratory failure

Chairs : Pieter Roel Tuinman (Amsterdam, Netherlands)

Introduction**Diaphragm ultrasound**

Elise Morawiec (Paris, France)

Lung ultrasound

Lara Pisani (Bologna (BO), Italy)

Esophageal balloon for monitoring breathing effort and transpulmonary pressure

Heder de Vries (Amsterdam, Netherlands)

14:10 - 15:10

Oral poster discussion: Chronic noninvasive ventilation

Disease(s) : Chronic respiratory failure

Chairs : Peter J. Wijkstra (Groningen, Netherlands), Marieke L. Duiverman (Groningen, Netherlands)

Adaptation to noninvasive ventilation in an outpatient setting: our experience

Carla Ribeiro (Porto, Portugal), Carla Nogueira, Daniela Ferreira, Sara Conde

Does tracheostomy ventilation in MND in the UK lead to improved survival?

Jonathan Palmer (Plymouth (Devon), United Kingdom), Bhuvaneswari Kathiresan, Ben Messer, Michelle Ramsay

Home invasive mechanical ventilation in Finland 2015-2019

Petra Kotanen (Espoo, Finland), Hanna-Riikka Kreivi, Pirkko Brander, Waltteri Siirala

Incidence of chest infections (CI) in patients with neuromuscular disease (NMD) in the first 2 weeks after commencement of Non-invasive Ventilation (NIV) or Mechanical In-Exsufflation (MI-E)

Liam Campbell (Newcastle Upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

Is there a risk to home mechanical ventilation patients who are issued with previously used room air ventilators?

Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

Management of Home Mechanical Ventilation (HMV) patients admitted in Hypercapnic Respiratory Failure (HRF): reported confidence versus practice

Katherine George (Wylam, United Kingdom), Liam Campbell, Katherine George

Measuring adherence to long-term assisted ventilation

Caroline Chao (Melbourne (VIC), Australia), Linda Rautela, Luke McDonald, David Berlowitz, Simon Conti, Mark Howard, Liam Hannan

Pneumothorax in neuromuscular disease associated with lung volume recruitment and mechanical insufflation-exsufflation

David Berlowitz (Melbourne (VIC), Australia), Luke McDonald, Mark Howard, Linda Rautela, Caroline Chao, Nicole Sheers

Predictors of home use of mechanical insufflation/exsufflation devices: preliminary results from a cross-sectional study

Georgia Mitropoulou (Prilly, Switzerland), Raphael Heinzer, Maura Prella

Updated guidelines for indication of non-invasive positive pressure ventilation (NIPPV) in Slovakia

Pavol Pobeha (Košice, Slovakia), Imrich Mucska, Róbert Vyšehradský, Marta Hájková, Juraj Jakubík, Ivana Paraniová, Pavol Joppa

14:10 - 15:10

Oral poster discussion: High flow nasal therapy and respiratory muscles**Disease(s) :** Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure**Chairs :** Paolo Navalesi (Padova, Italy), Lieuwe Bos (Amsterdam, Netherlands)**High flow nasal cannula (HFNC) vs. non-invasive ventilation in severe pneumonia patients with OHS: A prospective study**

BoXue Han (Beijing, China), Banghe Li, Ying Wang, Yan Hao, Guofeng Hou, Feng Wang, Jiquan Zhang, Jie Bai, Jinqing Chang, Guangping Lv, Yongxu Chen, Xincheng Qiu

How long should clinicians wait to stop a trial of humidified oxygen via high flow nasal cannula in "de novo" respiratory failure?

Ligia Helena Pires Vicente (Portimão, Portugal), Joao Estevas, Pedro Americano, Daniela Silva, Gloria Cabral Campello

Is the high flow changing the indications of RICU?

Antoni Marín Muñoz (Badalona (Barcelona), Spain), Irene Aldás Criado, Maria Sol Prats Bardaji, Jorge Abad Capa, Antoni Rosell Gratacós

Nasal humidified high flow oxygen prolongs endurance exercise in interstitial lung disease.

Frédéric Hérenget (Dieulefit, France), Daniel Veale, Yara Al Chikhanie, Samuel Vergès

The utility of high-flow nasal cannula ROX index in post-extubation respiratory failure

szuying Liu (Newtaipei city, Taiwan), yenwei shao, Tejung Chia

Diaphragm thickening fraction versus transdiaphragmatic pressure in healthy subjects and ventilated patients: a breath-by-breath analysis

Thomas Poulard (Paris Cedex 13, France), Quentin Fossé, Jean-Luc Gennisson, Marie-Cécile Niérat, Jean-Yves Hogrel, Thomas Similowski, Alexandre Demoule, Damien Bachasson, Martin Dres

Diaphragm ultrasound and respiratory functional test: a combined approach in amyotrophic lateral sclerosis

Letizia D'Antoni (Guidonia Montecelio (RM), Italy), Antonella Sotgiu, Fausta Viccaro, Kristopher Richard Flores, Ernesto Di Biase, Paolo Palange

Measurement validity of an electronic inspiratory loading device during inspiratory muscle training in weaning failure patients

Marine Van Hollebeke (Leuven, Belgium), Diego Poddighe, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel Langer

Temporary transvenous diaphragmatic neurostimulation distributes tidal volume in a more physiological pattern versus mechanical ventilation alone.

Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Marlena Ornowska, Michelle Nicholas, Steven Reynolds

The utility of esophageal pressure measurement in acute hypercapnic respiratory failure due to severe COPD exacerbation requiring NIV

Alexandru Tudor Steriade (Bucuresti, Romania), Mihai Gologanu, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea

Ultrasound shear wave elastography for non-invasive assessment of diaphragm activity in mechanically ventilated patients.

Quentin Fossé (Paris, France), Thomas Poulard, Jean Yves Hogrel, Jean Luc Gennisson, Thomas Similowski, Alexandre Demoule, Marie Cécile Niérat, Damien Bachasson, Martin Dres

14:10 - 15:10

Oral poster discussion: Invasive mechanical ventilation

Disease(s) : [Adult acute respiratory failure](#)

Chairs : Cesare Gregoretti (Palermo, Italy), Leo Heunks (Amsterdam, Netherlands)

Effects of BMI on clinical outcomes in acute respiratory failure requiring invasive mechanical ventilation

Omar Mahmoud (New York, United States of America), Bing Chen, Abhishek Chakraborti

Esterification of iloprost enhances its protective effects on pulmonary endothelium

Konstantin Birukov (Baltimore, United States of America), Yunbo Ke, Yue Li, Kamoltip Promnares, Anna Birukova

Focus group on mechanical in- exsufflation in invasively ventilated intensive care patients.

Willemke Stijlma (Amsterdam, Netherlands), Frederique Paulus, Marcus Schultz, Bea Spek, Wilma Scholte Op Reimer, Louise Rose

Influence and complications of tracheotomy on V-V ECMO: a 10-year analysis

Christoph Fisser (Regensburg, Germany), Patricia Lüdtkke, Andreas Lüdtkke, Matthias Lubnow, Maximilian V. Malfetheriner, Alois Philipp, Maik Foltan, Dirk Lunz, Thomas Müller

Predictive factors of noninvasive ventilation failure for acute exacerbation of COPD

Maria João Freitas Ferreira Araújo (Guimarães, Portugal), Rita Ortiga, Diana Pimenta, Ana Luísa Vieira, Lurdes Ferreira

Role of the advanced device with auto-titrating EPAP in ARDS patients

BoXue Han (Beijing, China), Lishun Yue, Maoliang Tian, Lei Sun, Zhiqiang Zhao, Fuzhou Liu, Hui Liu

Scores of community acquired pneumonia for predicting intensive care admission and mortality

Lamia Shaaban (Assiut, Egypt), Mohamed Metwally, Eman Monazea

Signaling in vascular endothelium by varying degrees of mechanical stretch

Anna Birukova (Baltimore, United States of America), Pratap Karki, Chen-Ou Zhao, Yunbo Ke, Konstantin Birukov

The association of subglottic secretion drainage and tracheal mucosa injury

YiaTing Li (Taichung, Taiwan), Wang Yaochen

08:00 - 09:30

*Live streamed***Symposium: Noninvasive ventilation (NIV) in COPD**

Aims : To provide an overview of current evidence about different aspects of long-term NIV applied to hypercapnic COPD patients: which are the goals of ventilation? How to “personalise” the therapy and how to make a good patient selection? To discuss the results of the recent task force on long-term NIV in COPD.

Disease(s) : Chronic respiratory failure

Target audience : Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Physiotherapist, Pulmonologist, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

Chairs : Peter J. Wijkstra (Groningen, Netherlands), Wolfram Windisch (Cologne, Germany)

08:00 Patient selection
Nicholas Hart (London, United Kingdom)

08:30 What are the targets?
Marieke L. Duiverman (Groningen, Netherlands)

09:00 ERS Task Force on long-term NIV in COPD
Wolfram Windisch (Cologne, Germany)

08:00 - 09:30

*Live streamed***Symposium: Specific ventilation strategies in children**

Aims : To provide an update on specific ventilation strategies.

Disease(s) : Paediatric respiratory failure

Target audience : Anaesthesiologist, Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Respiratory therapist, Sleep specialist/technologist

Chairs : Linda Corel (Rotterdam, Netherlands), Paolo Navalesi (Padova, Italy)

08:00 NAVA
Guillaume Emeriaud (Montreal, Canada)

08:30 ECMO
Martí Pons Òdena (Barcelona, Spain)

09:00 High flow nasal cannula in acute and chronic respiratory failure
Christopher Milesi (Montpellier, France)

08:00 - 09:30

*Live streamed***Symposium: Mechanical ventilation in specific cases**

Aims : To learn IMV strategies in different chronic pulmonary diseases.

Disease(s) : Adult acute respiratory failure

Target audience : Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

Chairs : Marcus Schultz (Amsterdam, Netherlands), Lara Pisani (Bologna (BO), Italy)

08:00 Mechanical ventilation in obstructive lung disease
Lise Piquilloud (Lausanne, Switzerland)

08:30 Mechanical ventilation in interstitial lung disease
Martin Dres (Paris, France)

09:00 Ventilation strategies during weaning
Nicholas Hart (London, United Kingdom)

10:00 - 12:00

*Live streamed***Symposium: Adverse effects of mechanical ventilation**

Aims : To understand how mechanical ventilation may induce harm and which organs / tissues are at risk.

Disease(s) : Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure**Target audience :** Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist**Chairs :** Paolo Navalesi (Padova, Italy), Lara Pisani (Bologna (BO), Italy)**10:00 Heart - lung interaction**
Pieter Roel Tuinman (Amsterdam, Netherlands)**10:30 Ventilator - induced lung injury**
Marcus Schultz (Amsterdam, Netherlands)**11:00 Ventilator induced respiratory muscle injury**
Alexandre Demoule (Paris, France)**11:30 Long-term consequences of mechanical ventilation**
Sangeeta Mehta (Toronto, Canada)**15:15 - 17:15***Live streamed***Symposium: Noninvasive ventilation and high flow nasal therapy (HFNT)****Aims :** To describe the indications and standards of practice for NIV and HFNO in different clinical situations.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee**Chairs :** Leo Heunks (Amsterdam, Netherlands), Lise Piquilloud (Lausanne, Switzerland)**15:15 The role of high flow nasal oxygen therapy in hypoxemic respiratory failure**
Elise Morawiec (Paris, France)**15:35 NIV in hypercapnic acute respiratory failure: COPD**
Stefano Nava (Bologna (BO), Italy)**15:55 NIV in hypercapnic acute respiratory failure: non-COPD**
Paolo Navalesi (Padova, Italy)**16:15 High flow nasal therapy in hypercapnic acute respiratory failure**
Alexandre Demoule (Paris, France)**16:35 NIV use post-extubation**
Laurent Brochard (Toronto (ON), Canada)**16:55 NIV in palliative care**
Anita Simonds (London, United Kingdom)**15:15 - 17:15***Live streamed***Symposium: Prolonged Weaning****Aims :** To focus on the specific group of patients with prolonged weaning.**Disease(s) :** Adult acute respiratory failure Chronic respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Epidemiologist, Fellow, Intensivist/critical care physician, Junior member, Physiotherapist, Psychologist, Public health official, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Social worker, Student, Trainee**Chairs :** Nicholas Hart (London, United Kingdom), Sarah Schwarz (Köln, Germany)**15:15 Weaning in long-term acute care hospitals**
Martin J. Tobin (Hines, United States of America)**15:55 Treatment strategies**
Nicholas Hart (London, United Kingdom)**16:35 Unsuccessful weaning: what comes next?**
Friederike Sophie Magnet (Köln, Germany)

13:00 - 14:00

*Live streamed***Meet the Expert: Weaning failure in children****Aims :** To discuss the therapeutic options in case of weaning from invasive and noninvasive ventilation.**Disease(s) :** Paediatric respiratory failure**Target audience :** Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory physician, Respiratory therapist**13:00** **Weaning failure in children**
Martí Pons Odena (Barcelona, Spain)

13:00 - 14:00

*Live streamed***Meet the Expert: Sleep-related hypoventilation****Aims :** To understand strategies in diagnosis and treatment in patients with sleep-related hypoventilation.**Disease(s) :** Chronic respiratory failure**Target audience :** Anaesthesiologist, General practitioner, Intensivist/critical care physician, Junior member, Nurse, Otolaryngologist, Paediatrician, Patient, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Student, Trainee**13:00** **Sleep-related hypoventilation**
Marieke L. Duiverman (Groningen, Netherlands)

13:00 - 14:00

*Live streamed***Meet the Expert: The practice of sedation in critically ill patients****Aims :** To learn how to assess the status of the patient; to assess the level of sedation; to know the use of different kind of drugs to sedate the patients (i.e. sedation vs analgesia); to understand the practice of sedation during invasive and noninvasive ventilation.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Emergency medicine doctor, Intensivist/critical care physician, Physiotherapist, Respiratory physician, Respiratory therapist**13:00** **The practice of sedation in critically ill patients**
Sangeeta Mehta (Toronto, Canada)

09:45 - 12:05

Skills workshop: How to set the ventilator based on individual conditions**Aims :** To address practical aspects of non-invasive ventilation; to address problem-solving strategies in case of individual problems occurring during NIV-commencement; to provide recommendations for handling NIV-patients with specific emphasis on the underlying condition.**Disease(s) :** Chronic respiratory failure**Target audience :** Anaesthesiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Nurse, Paediatrician, Pulmonologist, Resident, Respiratory physician, Respiratory therapist**Chairs :** Wolfram Windisch (Cologne, Germany)**09:45** **How to assess sleep quality during NIV**
Nicholas Hart (London, United Kingdom)**09:45** **How to establish high-intensity NIV in COPD**
Sarah Schwarz (Köln, Germany), Gerrie Bladder (Groningen, Netherlands)**09:45** **How to use transcutaneous CO₂ monitoring for long-term NIV**
Friederike Sophie Magnet (Köln, Germany)**09:45** **What is necessary for neuromuscular patients in addition to NIV? Use of cough assist devices**
Anita Simonds (London, United Kingdom)

14:10 - 16:30

Skills workshop: How to set the ventilator based on individual conditions

Aims : To address practical aspects of non-invasive ventilation; to address problem-solving strategies in case of individual problems occurring during NIV-commencement; to provide recommendations for handling NIV-patients with specific emphasis on the underlying condition.

Disease(s) : Chronic respiratory failure

Chairs : Heder de Vries (Amsterdam, Netherlands)

14:10 **How to assess sleep quality during NIV**
Jean-Paul Janssens (Genève, Switzerland)

14:10 **How to establish high-intensity NIV in COPD**
Marieke L. Duiverman (Groningen, Netherlands), Gerrie Bladder (Groningen, Netherlands)

14:10 **How to use transcutaneous CO2 monitoring for long-term NIV**
Christian Karagiannidis (Cologne, Germany)

14:10 **What is necessary for neuromuscular patients in addition to NIV? Use of cough assist devices**
Peter J. Wijkstra (Groningen, Netherlands)

14:10 - 15:10

Oral poster discussion: Acute noninvasive ventilation

Disease(s) : Adult acute respiratory failure

Chairs : Stefano Nava (Bologna (BO), Italy), Martin Dres (Paris, France)

Assessment of non-invasive ventilation in acute severe asthma patients
Mohamed M. Metwally (Assiut, Egypt), Olfat Elshinnawy, Nermeen Abdelaleem, Walaa Mokhtar

Comparison of AVAPS and BIPAP modes in patients with postoperative hypercapnic respiratory failure after open heart surgery
Halime Sinem Barutçu (Istanbul, Turkey), Ece Altınay, Halide Özü, Mine Gülden Polat

Non invasive proportional assist ventilation versus pressure support ventilation in management of acute respiratory failure of COPD
Khaled Hussein (Assiut, Egypt), Gamal Rabie

Non-Invasive Ventilation (NIV) in Level 3 areas at a NHS Foundation Trust: A quality improvement project
Laura Mylott (Burgess Hill, United Kingdom), Charlene Goh, Kelly Morris

Predictive factors for non-invasive ventilation failure during acute respiratory distress syndrome
Amira Jamoussi (Ariana, Tunisia), Nouha Bouker, Samia Ayed, Takoua Merhebene, Jalila Ben Khelil, Mohamed Besbes

Professional training on the application of non-invasive ventilation in nursing practice
Kornelija Erdelja (Zagreb, Croatia), Azra Hodzic, Ivana Barisic, Kristina Pauker, Sladana Rezić, Tanja Zovko, Andreja Sajnic

Risk Factor for Noninvasive Ventilation Failure in Influenza Infection with Acute Respiratory Failure in ED
Karn Suttapanit (Bangkok, Thailand), Pitsucha Sanguanwit Sanguanwit, Jeeranun Boriboon

The impact of left heart dysfunction in patients with obesity hypoventilation syndrome with acute on chronic respiratory failure
Alexandru Tudor Steriade (Bucuresti, Romania), Gabriela Ganea, Bogdan Nuta, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea

Ventilatory management in acute respiratory failure of patients with obesity-hypoventilation syndrome
Amira Jamoussi (Ariana, Tunisia), Racha Ghabara, Ameni Khaled, Samia Ayed, Jalila Ben Khelil, Mohamed Besbes

14:10 - 15:10

Oral poster discussion: Chronic obstructive pulmonary disease

Disease(s) : Adult acute respiratory failure Chronic respiratory failure

Chairs : Lieuwe Bos (Amsterdam, Netherlands), Leo Heunks (Amsterdam, Netherlands)

Assessing symptom burden and depression in patients with chronic respiratory insufficiency.
Heidi Rantala (Pirkkala, Finland), Sirpa Leivo-Korpela, Anni Hanhimäki, Lauri Lehtimäki, Juho T Lehto

Impact of smoking habits in COPD patients under home noninvasive ventilation

Eduarda M. Tinoco (Porto, Portugal), Ana R. Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

Nasal high-flow versus non-invasive ventilation in patients with chronic hypercapnic COPD

Jens Bräunlich (Leipzig, Germany), Dominic Dellweg, Andreas Bastian, Torsten-Gerriet Blum, Stephan Budweiser, Winfried Randerath, Dora Triché, Martin Bachmann, Christian Kähler, Abdel Hakim Bayarassou, Irmhild Mäder, Jens Geiseler, David Petroff, Norbert Köhler, Hubert Wirtz

Predictive factors for readmission of patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease and respiratory failure

Diana Pimenta (Braga, Portugal), Maria João Araújo, Rita Ortiga, Ana Luisa Vieira, Rui Rolo, Lurdes Ferreira

Pursed-lip breathing ventilation for the treatment of hypercapnic respiratory failure in COPD

Christian Herzmann (Borstel, Germany), Christoph Jünger, Karoline I. Gaede, Christian Herzmann, Christoph Lange, Maja Reimann, Stephan Rüller

Short-term systemic steroid therapy in chronic obstructive pulmonary disease patients with acute respiratory failure

Lamia Shaaban (Assiut, Egypt), Shereen Farghaly, Ashraf Zin El-Abdeen, Hanan Galal, Entsar Mohammed

The estimated cost of chronic obstructive pulmonary disease exacerbation in intensive care unit

Amira Jamoussi (Ariana, Tunisia), Laaroussi Safouene Saula, Takoua Merhebene, Samia Ayed, Jalila Ben Khelil, Mohamed Besbes

14:10 - 15:10

Oral poster discussion: Paediatrics and Quality of life**Disease(s) :** Adult acute respiratory failure Paediatric respiratory failure Chronic respiratory failure**Chairs :** Brigitte Fauroux (Paris, France), Sangeeta Mehta (Toronto, Canada)**Effect of tidal volume and nebuliser position on aerosol delivery during neonate ventilation**

Paul McKiernan (Dublin 22, Ireland), Gavin Bennett, Mary Joyce, Amy Tatham, Ronan MacLoughlin

Correlation in the use of invasive and non-invasive mechanical ventilation

Azra Hodzic (Dubranec, Croatia), Kornelija Erdelja, Ivana Barisic, Sladana Rezić, Tanja Zovko, Andreja Sajnic

Impact of the duration of renal replacement therapy on the respiratory complications in patients with end-stage renal disease

Olga Shtepa (Dnipropetrovsk, Ukraine), Olga Shtepa, Oleksandr Kuryata, Olha Halushchak

In vitro aerosol delivery by vibrating mesh nebulizer (VMN) and pressurized metered dose inhaler (pMDI) using spacers in comparison with T adapters in mechanical ventilation.

alison vanlaeys (Valognes, France), Myriam Eckes, Alice Paris, Brenda Hervieu, Alison Vanlaeys, Karim Housseini, Thierry Porée

Interfaces for non invasive ventilation in children

Matteo Masolini (Firenze (FI), Italy), Chiara Castellani, Chiara Degli Innocenti, Diletta Innocenti, Riccardo Guarise, Rachele Locarno, Beatrice Ferrari, Niccolò Nassi

Patient and parent perceptions of an elective inpatient non-invasive ventilation setup bed

Kim Lund (Liverpool, United Kingdom), Kim Lund, Meg Macdonald, Liam Durkin, Ruth Trinick, Clare Halfhide

Providing bespoke equipment adaptations to promote independence and quality of life for users of long term ventilation (LTV)

Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Alison Armstrong, Graham Henderson

Tracheostomy ventilation in MND: A snapshot of UK practice

Jonathan Palmer (Plymouth (Devon), United Kingdom), Bhuvaneswari Kathiresan, Ben Messer, Michelle Ramsey

The use of home Non-Invasive ventilation in Cystic Fibrosis in a large Uk regional paediatric Service.

Clare Halfhide (Warrington (Cheshire), United Kingdom), Meg Macdonald, Kim Lund, Amanda Reed, Elinor Burrows, Kevin W Southern

Impact of the phosphatidylcholine treatment program on the respiratory failure in patients with community-acquired pneumonia

Olga Shtepa (Dnipropetrovsk, Ukraine), Olga Shtepa

08:00 - 09:30

*Live streamed***Symposium: Health-related quality (HRQL) of life in patients with long-term ventilation****Aims :** To address the important issue of health-related quality of life (HRQL) in patients with long-term mechanical ventilation; to discuss the methodology of HRQL assessment and clinical data.**Disease(s) :** Chronic respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Fellow, Lung function technician, Patient, Physiologist, Physiotherapist, Psychologist, Public health official, Pulmonologist, Researcher, Resident, Respiratory physician, Scientist, Sleep specialist/technologist, Social worker, Student, Trainee**Chairs :** Jean-Paul Janssens (Genève, Switzerland), Peter J. Wijkstra (Groningen, Netherlands)**08:00** **Methods of HRQL assessment**
Marieke L. Duiverman (Groningen, Netherlands)**08:30** **HRQL in NIV**
Wolfram Windisch (Cologne, Germany)**09:00** **HRQL in tracheotomized patients**
Friederike Sophie Magnet (Köln, Germany)

08:00 - 09:30

*Live streamed***Symposium: Noninvasive ventilation outside the ICU****Aims :** To provide an update on the most recent developments of CPAP and NIV in children outside the ICU.**Disease(s) :** Paediatric respiratory failure**Target audience :** Emergency medicine doctor, Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory physician, Respiratory therapist, Sleep specialist/technologist**Chairs :** Cesare Gregoretti (Palermo, Italy), Alessandro Amadeo (Paris, France)**08:00** **NIV as a transition from the ICU to the home**
Martí Pons Odena (Barcelona, Spain)**08:30** **Update on long term CPAP**
Brigitte Fauroux (Paris, France)**09:00** **Update on long term NIV**
Linda Corel (Rotterdam, Netherlands)

08:00 - 09:30

*Live streamed***Symposium: Rescue therapies for respiratory failure****Aims :** To give indications for rescue therapies; to describe advantages and disadvantages.**Disease(s) :** Adult acute respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee**Chairs :** Christian Karagiannidis (Cologne, Germany), Lise Piquilloud (Lausanne, Switzerland)**08:00** **Prone positioning and recruitment manoeuvre**
Marcus Schultz (Amsterdam, Netherlands)**08:30** **Extracorporeal CO2 removal**
Stefano Nava (Bologna (BO), Italy)**09:00** **ECMO**
Christian Karagiannidis (Cologne, Germany)

10:00 - 11:15

*Live streamed***Symposium: Diagnostic techniques during mechanical ventilation**

Aims : To learn the contra-/indications and interpretation of the diagnostic results of lung ultrasound, esophageal pressure monitoring and bronchoscopy in mechanically ventilated patients.

Disease(s) : Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure

Target audience : Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident

Chairs : Sangeeta Mehta (Toronto, Canada), Heder de Vries (Amsterdam, Netherlands)

10:00 Lung ultrasound
Marcus Schultz (Amsterdam, Netherlands)

10:25 Esophageal pressure monitoring
Laurent Brochard (Toronto (ON), Canada)

10:50 Bronchoscopy in mechanically ventilated patients
Lieuwe Bos (Amsterdam, Netherlands)

15:45 - 17:20

Live streamed

Symposium: Closing session: Year in Preview

Aims : To discuss important developments and studies that are coming up and how the future might look like.

Disease(s) : Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure

Target audience : Anaesthesiologist, Clinician, Intensivist/critical care physician, Pulmonologist, Researcher, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist

Chairs : Leo Heunks (Amsterdam, Netherlands)

15:45 Year in preview "paediatric" track
Brigitte Fauroux (Paris, France)

16:15 Year in preview "acute" track
Marcus Schultz (Amsterdam, Netherlands)

16:45 Year in preview "chronic" track
Wolfram Windisch (Cologne, Germany)

11:30 - 12:30

Live streamed

Case-based session: Noninvasive ventilation and noninvasive CPAP in the PICU

Aims : To discuss clinical cases of paediatric noninvasive ventilation and noninvasive CPAP in the PICU.

Disease(s) : Paediatric respiratory failure

Target audience : Emergency medicine doctor, Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory therapist, Sleep specialist/technologist

Chairs : Brigitte Fauroux (Paris, France)

11:30 Case of a child
Linda Corel (Rotterdam, Netherlands)

11:45 Case presentation: High flow nasal canula oxygen as non-invasive ventilation modality to treat severe restrictive lung disease in an infant with skeletal anomaly.
Theofilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

12:00 Case presentation: The successful extubation of a paediatric patient, following 3 previous failed extubations, through the use of non-invasive (NIV) neutrally adjusted ventilator assist (NAVA).
Laura Flaxman (London, United Kingdom), Ellie Melkuhn (London, United Kingdom)

12:15 Case of an infant
Alessandro Amaddeo (Paris, France)

13:30 - 15:30

Live streamed

Case-based session: Weaning from mechanical ventilation

Aims : To learn definitions and outcomes; to understand reasons for weaning failure and how to treat these factors.

Disease(s) : Adult acute respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee**Chairs :** Martin J. Tobin (Hines, United States of America)**13:30** **Definition and outcome**
Laurent Brochard (Toronto (ON), Canada)**13:40** **Case presentation: An old known and rarely seen etiology of respiratory failure**
Ricardo Estêvão Gomes (Lisboa, Portugal)**13:55** **Why can't my patient be weaned?**
Martin Dres (Paris, France)**14:15** **How to ventilate difficult to wean patients**
Cesare Gregoretti (Palermo, Italy)**14:30** **Early mobilisation and IMT**
Sangeeta Mehta (Toronto, Canada)**14:55** **Swallowing and talking in difficult to wean patients**
Nicholas Hart (London, United Kingdom)**15:15** **Case presentation: Extracorporeal CO2 removal and veno venous ECMO as bridge to transplantation in refractory hypercapnic respiratory failure**
Goran Glodi (Zagreb, Croatia)**13:30 - 15:30***Live streamed***Case-based session: Problem-solving - Case studies of NIV problems****Aims :** To address practical aspects of non-invasive ventilation.**Disease(s) :** Chronic respiratory failure**Target audience :** Anaesthesiologist, Cardiologist, Clinician, Emergency medicine doctor, Intensivist/critical care physician, Junior member, Nurse, Physiotherapist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Student, Trainee**Chairs :** Stefano Nava (Bologna (BO), Italy)**13:30** **Individual titration of nocturnal NIV**
Jean-Paul Janssens (Genève, Switzerland)**13:50** **Leakages, mask problems and side effects**
Sarah Schwarz (Köln, Germany)**14:10** **Case presentation: Improved nocturnal gas exchange with high flow nasal cannula in advanced motor neurone disease with non-invasive ventilation intolerance**
Collette Menadue (Leichhardt (NSW), Australia)**14:30** **Case presentation: Spontaneous Pneumothorax in a Patient with Duchenne Muscular Dystrophy on Non-Invasive Ventilation**
Darlene Mercieca (Zebbug, Malta)**14:50** **Case presentation: Volume-assured pressure support ventilation in a chest-wall deformity case**
Sónia Isabel Silva Guerra (Viseu, Portugal)**15:10** **The role of obesity**
Marieke L. Duiverman (Groningen, Netherlands)**11:30 - 12:30***Live streamed***Meet the Expert: Measurements of nocturnal gas exchange****Aims :** To provide participants with an overview of the required technical skills in monitoring nocturnal gas exchange as well as the fields of use and limitations of the different techniques available today.**Disease(s) :** Chronic respiratory failure**Target audience :** Clinician, Physiotherapist, Pulmonologist, Resident, Respiratory physician

11:30 **Measurements of nocturnal gas exchange**
Jean-Paul Janssens (Genève, Switzerland)

11:30 - 12:30

Live streamed

Meet the Expert: Understanding the ventilator waveform

Aims : To understand all points of the waveform and its changes.

Disease(s) : Adult acute respiratory failure

Target audience : Anaesthesiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

11:30 **Understanding the ventilator waveform**
Laurent Brochard (Toronto (ON), Canada)

09:45 - 12:05

Skills workshop: How to set the ventilator based on individual conditions in children

Aims : To learn first line and consecutive settings of a ventilator in children with different conditions.

Disease(s) : Paediatric respiratory failure

Target audience : Allied health professional, Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist

Chairs : Martí Pons Òdena (Barcelona, Spain)

09:45 **7-year old child needing ECMO**
Martí Pons Òdena (Barcelona, Spain)

09:45 **3-month old baby with severe bronchiolitis**
Christopher Milesi (Montpellier, France)

09:45 **2-year old child with congenital myopathy**
Alessandro Amaddeo (Paris, France)

13:00 - 15:20

Skills workshop: Core competency in mechanical ventilation

Aims : To understand the principles of controlled mechanical ventilator modes (PCV, VCV); to understand the principles of partially supported modes (PSV); to learn how to measure respiratory mechanics (compliance, Resistance, PEEPi); to understand the principles of safe mechanical ventilation in obstructive airway disease

Disease(s) : Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure

Target audience : Allied health professional, Clinician, Nurse, Paediatrician, Trainee, Fellow, Respiratory physician, Respiratory therapist, Intensivist/critical care physician, Pulmonologist, Emergency medicine doctor, Physiologist, Anaesthesiologist

Chairs : Lise Piquilloud (Lausanne, Switzerland)

13:00 **Controlled mechanical ventilation modes (PCV, VCV)**
Lieuwe Bos (Amsterdam, Netherlands)

13:00 **Partially supported ventilation modes (PSV)**
Christian Karagiannidis (Cologne, Germany)

13:00 **Measurement of respiratory mechanics (compliance, resistance, PEEPi)**
Heder de Vries (Amsterdam, Netherlands)

13:00 **Mechanical ventilation in obstructive airway disease**
Lise Piquilloud (Lausanne, Switzerland)



INDUSTRY SPONSORED SESSIONS

■ THURSDAY 13 FEBRUARY 2020

14:10-15:10

ALEXANDER II

Ventilator Integrated Polygraphy: The latest monitoring solutions for NIV

Organised by Breas

■ FRIDAY 14 FEBRUARY 2020

14:10-15:10

ALEXANDER II

High Flow Therapy: a paradigm shift from oxygen therapy to respiratory support

Organised by Fischer & Paykel Healthcare

14:10 Mechanisms of actions of the humidified high flow

Lara Pisani (Bologna)

14:30 Use of high flow in the pulmonology department

Manel Lujan (Barcelone)

14:50 Outcomes of a 6 Week crossover NHF vs NIV study on chronic COPD patients

Jens Braünlich (Leipzig)

17:30-19:00

ALEXANDER II

Advances in NIV Therapy

Organised by Philips

Moderator: Prof. Mickael Polkey (Royal Brompton Hospital, London UK)

Optimal NIV in Acute Respiratory Failure

Dr. Carlos Ferrando, MD, PhD (Barcelona, Spain)

The impact and concerns of Expiratory Flow Limitation in COPD during sleep

Dr. Javier Sayas Catalán (Madrid, Spain)

Theory and Applications of Monitored Pulmonary Mechanics in NIV

Bill Truschel (Principal Scientist, Philips, USA), Prof. Michael Polkey (London, United Kingdom)

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