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SOCIETY  
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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

Rooms

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

\*additional registration required

# OVERVIEW PROGRAMME

FRIDAY, 14.02.2020

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure
- Industry sessions

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander I
08:00-09:30				
<b>SYMPOSIUM</b> Specific ventilation strategies in children <span style="color: red;">LIVE</span>	<b>SYMPOSIUM</b> Mechanical ventilation in specific cases <span style="color: red;">LIVE</span>	<b>SYMPOSIUM</b> Non-invasive ventilation (NIV) in COPD <span style="color: red;">LIVE</span>		
09:30-10:00 Break				
			09:45-12:05	
			<b>SKILLS WORKSHOP*</b> How to set the ventilator based on individual conditions	
	10:00-12:00			
	<b>SYMPOSIUM</b> <span style="color: red;">LIVE</span> Adverse effects of mechanical ventilation			
12:00-13:00 Lunch Break				
13:00-14:00				
<b>MEET THE EXPERT</b> Weaning failure in children <span style="color: red;">LIVE</span>	<b>MEET THE EXPERT</b> The practice of sedation in critically ill patients <span style="color: red;">LIVE</span>	<b>MEET THE EXPERT</b> Sleep-related hypoventilation <span style="color: red;">LIVE</span>		
14:10-15:10				
<b>ORAL POSTER DISCUSSION</b> Acute noninvasive ventilation	<b>FISCHER &amp; PAYKEL HEALTHCARE</b> High Flow Therapy: a paradigm shift from oxygen therapy to respiratory support	<b>ORAL POSTER DISCUSSION</b> Chronic obstructive pulmonary disease		<b>ORAL POSTER DISCUSSION</b> Paediatrics and Quality of life
14:15-15:15 Break			14:10-16:30	
			<b>SKILLS WORKSHOP*</b> How to set the ventilator based on individual conditions	
	15:15-17:15			
	<b>SYMPOSIUM</b> Noninvasive ventilation and high flow therapy (HFNT) <span style="color: red;">LIVE</span>	<b>SYMPOSIUM</b> Prolonged weaning <span style="color: red;">LIVE</span>		
	17:30-19:00			
	<b>PHILIPS</b> Advances in NIV Therapy			

\*additional registration required



- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure

# OVERVIEW PROGRAMME

SATURDAY, 15.02.2020

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander IV
08:00-09:30				
<b>SYMPOSIUM</b> Noninvasive ventilation outside the ICU <span style="color: red;">LIVE</span>	<b>SYMPOSIUM</b> Rescue therapies for respiratory failure <span style="color: red;">LIVE</span>	<b>SYMPOSIUM</b> <span style="color: red;">LIVE</span> 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		<b>SKILLS WORKSHOP*</b> How to set the ventilator based on individual conditions in children	
	<b>SYMPOSIUM</b> Diagnostic techniques during ventilation <span style="color: red;">LIVE</span>			
11:30-12:30				
<b>CASE BASED</b> Noninvasive ventilation and noninvasive CPAP in the PICU	<b>MEET THE EXPERT</b> Understanding the ventilator waveform <span style="color: red;">LIVE</span>	<b>MEET THE EXPERT</b> Measurements of nocturnal gas exchange <span style="color: red;">LIVE</span>		
12:30-13:30 Lunch Break			13:00-15:20	
	13:30-15:30		<b>SKILLS WORKSHOPS*</b> Core competency in mechanical ventilation	
	<b>CASE BASED</b> Weaning from mechanical ventilation	<b>CASE BASED</b> Problem-solving - Case studies of NIV problems		
15:15-15:45 Break				
	15:45-17:20			
	<b>CLOSING SESSION</b> YEAR IN PREVIEW Paediatric- Acute - Chronic <span style="color: red;">LIVE</span>			

\*additional registration required

# ☰ PROGRAMME

This information was up-to-date on 28 November 2019

08:00 - 10:00

**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)**08:10** **Development of the respiratory system: from cradle to grave**  
Peter Rimensberger (Geneva 14, Switzerland)**08:40** **Impaired gas exchange**  
Stefano Nava (Bologna (BO), Italy)**09:10** **Basics of respiratory mechanics**  
Leo Heunks (Amsterdam, Netherlands)**09:40** **History of mechanical ventilation**  
Martin J. Tobin (Hines, United States of America)

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)

10:30 - 12:00

**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**  
Martin Kneyber (Groningen, Netherlands)**11:00** **Recommendations for mechanical ventilation in preterms**  
Peter Rimensberger (Geneva 14, Switzerland)**11:30** **Ventilation strategies in pediatric ARDS: are they different in children as compared to adults?**  
Daniele De Luca (Clamart, France)

10:30 - 12:00

**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 (Milan, 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

**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 :** Brigitte Fauroux (Paris, France), Wolfram Windisch (Cologne, Germany)**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

**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)**13:20**      **Alternatives to long-term NIV**  
Lara Pisani (Bologna (BO), Italy)

12:50 - 14:00

**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 :** Daniele De Luca (Clamart, France)



**12:50**      **Monitoring of invasive ventilation**  
Martin Kneyber (Groningen, Netherlands)

**13:20**      **Patient-ventilator interaction: assessment and clinical relevance**  
Peter Rimensberger (Geneva 14, Switzerland)

## 12:50 - 14:00

### 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)

**13:20**      **ARDS: state of the art**  
Lieuwe Bos (Amsterdam, Netherlands)

## 14:10 - 15:10

### Thematic Poster Session: Thematic poster session I

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

## 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**  
Martin Kneyber (Groningen, Netherlands)

## 15:15 - 17:15

### 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)

**15:15**      **PRO - Lung biopsy in ARDS**  
Lieuwe Bos (Amsterdam, Netherlands)

**15:25**      **CON - Lung biopsy in ARDS**  
Christian Karagiannidis (Cologne, Germany)

**15:35**      **Discussion**

**15:55**      **PRO - NIV in acute hypoxemic failure**  
Paolo Navalesi (Milan, Italy)

**16:05**      **CON - NIV in acute hypoxemic failure**  
Alexandre Demoule (Paris, France)

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**16:15**      **Discussion**

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**16:35**      **PRO - Steroids in ARDS**  
Stefano Nava (Bologna (BO), Italy)

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**16:45**      **CON - Steroids in ARDS**  
Marcus Schultz (Amsterdam, Netherlands)

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**16:55**      **Discussion**

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08:00 - 09:30

**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), Michael Dreher (Aachen, 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

**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 (Milan, Italy)

**08:00 NAVA**  
Peter Rimensberger (Geneva 14, Switzerland)

**08:30 ECMO**  
Pons Odena Marti (Barcelona, Spain)

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

08:00 - 09:30

**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)

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 :** Michael Dreher (Aachen, Germany)

**How to assess sleep quality during NIV**  
Nicholas Hart (London, United Kingdom)

**How to establish high-intensity NIV in COPD**  
Sarah Schwarz (Köln, Germany), Gerrie Bladder (Groningen, Netherlands)

**How to use transcutaneous CO2 monitoring for long-term NIV**  
Friederike Sophie Magnet (Köln, Germany)

**What is necessary for neuromuscular patients in addition to NIV?**  
Anita Simonds (London, United Kingdom)

## 10:00 - 12:00

### 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 (Milan, 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)

## 13:00 - 14:00

### 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**  
Pons Odena Marti (Barcelona, Spain)

## 13:00 - 14:00

### 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

### 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)

**14:10 - 15:10**

**Thematic Poster Session: Thematic poster session II**

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

**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)

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

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

**How to use transcutaneous CO<sub>2</sub> monitoring for long-term NIV**  
Christian Karagiannidis (Cologne, Germany)

**What is necessary for neuromuscular patients in addition to NIV?**  
Eve Corner (London, United Kingdom)

**15:15 - 17:15**

**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 (Milan, 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**

**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)

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**15:55**      **Treatment strategies**

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**16:35**      **Unsuccessful weaning: what comes next?**  
Friederike Sophie Magnet (Köln, Germany)

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08:00 - 09:30

**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

**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**  
Pons Odena Marti (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

**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)

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 :** Pons Odena Marti (Barcelona, Spain)

**7-year old child needing ECMO**

Martin Kneyber (Groningen, Netherlands)

**3-month old baby with severe bronchiolitis**

Christopher Milesi (Montpellier, France)

**28 GA baby with acute respiratory failure**

Daniele De Luca (Clamart, France)

**2-year old child with congenital myopathy**

Alessandro Amaddeo (Paris, France)

## 10:00 - 11:15

### 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**  
Pieter Roel Tuinman (Amsterdam, Netherlands)

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

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

## 11:30 - 12:30

### 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)

**12:00 Case of an infant**  
Alessandro Amaddeo (Paris, France)

## 11:30 - 12:30

### 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

### 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)**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, PEEP<sub>i</sub>); 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**Controlled mechanical ventilation modes (PCV, VCV)**  
Lieuwe Bos (Amsterdam, Netherlands)**Partially supported ventilation modes (PSV)**  
Christian Karagiannidis (Cologne, Germany)**Measurement of respiratory mechanics (compliance, resistance, PEEP<sub>i</sub>)**  
Eve Corner (London, United Kingdom)**Mechanical ventilation in obstructive airway disease**  
Lise Piquilloud (Lausanne, Switzerland)**13:30 - 15:30****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)**13:50**      **Why can't my patient be weaned?**  
Martin Dres (Paris, France)**14:15**      **How to ventilate difficult to wean patients**  
Cesare Gregoretti (Palermo, Italy)**14:40**      **Early mobilisation and IMT**  
Sangeeta Mehta (Toronto, Canada)**15:05**      **Swallowing and talking in difficult to wean patients**  
Nicholas Hart (London, United Kingdom)**13:30 - 15:30****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)

**14:10**      **Leakages, mask problems and side effects**  
Sarah Schwarz (Köln, Germany)

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**14:50**      **The role of obesity**  
Marieke L. Duiverman (Groningen, Netherlands)

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**15:45 - 17:20**

### 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)

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

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

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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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