

Educational and Scientific Program

October 21-22, 2026: Pre-Conference Workshops

Wednesday (October 21): 14:00 – 18:00
Thursday (October 22): 08:00 – 12:00

October 22-24, 2026: Main Conference

Thursday (October 22): 12:15 – 18:00
Friday (October 23): 08:15 – 18:00
Saturday (October 24): 08:15 – 12:15

Pre-Congress Workshops (1)

Wednesday, October 21, 2026

14:00 - 18:00

ROOM AGORA 1

W1: Understanding neonatal ventilators and their modes

- How does a ventilator work
 - The control variables
 - Ventilator modes and taxonomy made easy
 - What does a ventilator need as information to work correctly
 - What can we derive from the ventilator screen (time constant concept, synchronization issues)
 - High frequency ventilation in the pressure or volume mode:
What is the difference, what do I have to set, what do I have to watch out for?
 - Various ventilator modes: are there some specific indications to use one or the other (including HFOV and HFOV-VG)
- Faculty: Anna Lavizzari, Italy; David Tingay, Australia; Anton van Kaam, The Netherlands; Peter Rimensberger, Switzerland

ROOM AGORA 5

W2: Advanced concepts and technologies for respiratory support

- Automated Oxygen Control
 - Adaptive Mechanical Ventilation
 - Proportional Ventilatory Assist (NAVA, NeuroPAP)
- Faculty: Peter Dargaville, Australia; Guillaume Emeriaud, Canada; Martin Kneyber, The Netherlands

Pre-Congress Workshops (2)

Thursday, October 22, 2026

08:00 - 12:00

ROOM AGORA 5

W3: Lung recruitment and optimal airway pressure titration during conventional and high frequency ventilation:

Concept, tools and practice

- Understanding the concept of PEEP or mean airway pressure titration for lung volume optimisation during conventional and high frequency oscillatory ventilation
 - The tools to guide recruitment manoeuvres and lung volume optimisation at bedside (So2, S/F-ratio, pCO2 (tcPCO2), dynamic lung mechanics assessment, FOT, LU and EIT)
- Faculty: Anna Lavizzari, Italy; Martin Kneyber, The Netherlands; David Tingay, Australia; Peter Rimensberger, Switzerland

ROOM AGORA 1

W4: Educational Workshop with case illustrations on how to ventilate

- Congenital diaphragmatic hernia (CDH)
 - Meconium aspiration syndrome (MAS)
 - Bronchopulmonary dysplasia (BPD) patients in practice
- Faculty: Peter Dargaville, Australia; Jacob Eschweiler, Germany; Arun Sett, Australia

Main Conference

Day 1: Thursday, October 22, 2026

from 10:30

Check-in and Registration

12:15 - 13:15

ROOM MILES DAVIS HALL

Lunch Symposium

Advanced iNO Therapy: Technology, Delivery and Clinical Practice.

Speakers: Helmut Hummler & Rainer Köbrich & Christoph Schwarz

13:30 - 13:35	ROOM MILES DAVIS HALL Opening Remarks <i>Peter C. Rimensberger, Switzerland</i>	
13:35 - 15:30	ROOM MILES DAVIS HALL Opening Session Chronic lung disease: from the neonate to the adult <i>Chairs: David Tingay, Australia & Anton van Kaam, The Netherlands</i>	
13:35 - 14:00	The early origin of lung disease <i>Steven Abman, Denver, USA</i>	
14:00 - 14:25	BPD prediction models in preterm infants: Do they work, are they of clinical importance? <i>Wes Onland, Amsterdam, The Netherlands</i>	
14:25 - 14:50	Precision medicine for infants with BPD: Has the time come for it? <i>Marielle Pijnenburg, The Netherlands</i>	
14:50 - 15:15	An adult's pulmonologist perspective on BPD Early-life origins of COPD <i>Daiana Stolz, Freiburg, Germany</i>	
15:15 - 15:30	Panel Discussion: On what should we focus on to reduce the incidence of BPD in the future?	
15:30 - 16:15	Coffee break	
16:15 - 18:00	ROOM MILES DAVIS HALL Hot topics in respiratory critical care <i>Chairs: Guillaume Emeriaud, Canada & Florent Baudin, France</i>	16:15 - 18:00 ROOM AGORA 5 Supporting pulmonary transition in the DR: Ongoing controversies <i>Chairs: Anna Lavizzari, Italy & Anton van Kaam, The Netherlands</i>
16:15 - 16:30	OP 1: Severity of Lung Hypoplasia in Newborns with Left-Sided Congenital Diaphragmatic Hernia influences preoperative PEEP guided with Electrical Impedance Tomography <i>Lukas Tom Schroeder, Bonn, Germany</i>	16:15 - 16:40 The cord controversy <i>Arjan te Pas, Leiden, The Netherlands</i>
16:30 - 16:55	The PROSpect trial <i>Martin Kneyber, Groningen, The Netherlands</i>	16:40 - 17:05 The oxygen controversy <i>Peter Dargaville, Hobart, Australia</i>
16:55 - 17:20	Are formulas to set tidal volume in ARDS patients generalisable? Learning from the adults. <i>Aartik Sarma, San Francisco, USA</i>	17:05 - 17:30 The POLAR trial <i>David Tingay, Melbourne, Australia</i>
17:20 - 17:45	Lung protective ventilation concepts in patients without ARDS <i>Marcus Schultz, St. Gallen, Switzerland</i>	17:30 - 17:45 Panel Discussion: To intubate or not – does this effect outcome?
17:45 - 18:00	Panel Discussion: What are the remaining major unknowns in mechanical ventilation?	17:45 - 18:00 Panel Discussion: Should PEEP titration become standard of care?
18:00 - 19:30	Welcome Reception in the Exhibition Area	

Main Conference

08:15 - 08:55	ROOM AGORA 5 Morning tutorial (1) Lung and diaphragm protective ventilation: What do we know? <i>Martin Kneyber, Groningen, The Netherlands</i>
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Day 2 (morning): Friday, October 23, 2026

08:15 - 08:55	ROOM MILES DAVIS HALL Morning tutorial (2) Monitoring transition and resuscitation in the delivery room: Are ECG and SpO2 enough? <i>David Tingay, Melbourne, Australia and Arjan te Pas, Leiden, The Netherlands</i>
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09:00 - 10:15

ROOM AGORA 5

Non-invasive respiratory support in the PICU: Clinical experience versus evidence

Chairs: Marielle Pijnenburg, The Netherlands & Martin Kneyber, The Netherlands

09:00 - 09:25 **What is the role of HFNO-therapy?**

Florent Baudin, Lyon France

09:25 - 09:50 **Non-invasive ventilation in children:
A close look to the data**

Guillaume Emeriaud, Montreal, Canada

09:50 - 10:15 **Non-invasive respiratory support:
What can we learn from adult practices?**

Marcus Schultz, St. Gallen, Switzerland

09:00 - 10:15

ROOM MILES DAVIS HALL

Personalizing respiratory care in the NICU

Chairs: Daniele de Luca, France & Arun Sett, Australia

09:00 - 09:25 **Tailoring neonatal respiratory support:
Do we have good tools?**

Anna Lavizzari, Milan, Italy

09:25 - 09:50 **Postnatal corticosteroids to prevent BPD:
who should we treat?**

Anton van Kaam, Amsterdam, The Netherlands

09:50 - 10:15 **Patent Ductus Arteriosus in preterm infants -
When to treat?**

Helmut Hummler, Ulm, Germany

10:15 - 10:45 Coffee break

10:45 - 12:00

Poster Walks

Group 1: P01 - P07

Facilitators: Anna Lavizzari, Italy & Wes Onland, The Netherlands

Group 2: P08 - P14

Facilitators: Arun Sett, Australia & Arjan te Pas, The Netherlands

Group 3: P15 - P20

Facilitators: Hanna Soukka, Finland & Daniele de Luca, France

10:45 - 12:00

ROOM AGORA 5

Oral presentations (pediatric topics)

Chairs: Florin Baudin, France & Inez Frerichs, Germany

**OP 2: Lung deflation and recruitment:
clinical responses to high-flow oxygen
titration in bronchiolitis**

Robert Guglielmo, Loma Linda, USA

**OP 3: Cumulative respiratory burden in
extremely preterm infants and airway
function at 15 years: an exploratory study**

Yannick Regin, Leuven, Belgium

**OP 4: EIT-based ventilation phenotyping
during peep titration in neonatal and
pediatric ards: a feasibility study**

Johanna Moersdorf, Bonn, Germany

**OP 5: Early postoperative atelectasis
is associated with prolonged invasive
mechanical ventilation and PICU stay
after pediatric cardiac surgery**

Jannes Olgers, Leiden, The Netherlands

10:45 - 12:00

ROOM MILES DAVIS HALL

Oral presentations (neonatal topics)

Chairs: Helmut Hummler, Germany & Peter Dargaville, Australia

**OP 6: Surfactant delivery via a preterm-
sized supraglottic airway in infants
weighing 800–1500 g: a feasibility study**

Mårten Larsson, Gothenburg, Sweden

**OP 7: Evolution of regional ventilation in
preterm infants on non-invasive neurally
adjusted ventilatory assist: a prospective
observational study**

Julie Lefevere, Jette, Belgium

**OP 8: Ultrasound-assessed lung
aeration and oxygenation during alveolar
recruitment of patients with neonatal
acute respiratory distress syndrome
supported with OHF**

Nunzia Pia Manganelli, Paris, France

**OP 9: A survey of australian and new
zealand neonatal intensive care units'
exogenous surfactant therapy practices**

Frederique Niamh Donnelly, Parkville, Australia

12:00 - 13:15 Lunch break

12:05 - 13:05 **ROOM MILES DAVIS HALL**

Lunch Symposium

Physiology and Clinical Implications of Dead Space Ventilation in Neonates—Recent Improvements with New Technology

Speakers: Helmut Hummler & Alex Staffler & Christoph Schwarz

Main Conference

Day 2 (afternoon): Friday, October 23, 2026

13:15 - 13:55 ROOM MILES DAVIS HALL

Guest Lecture

Chairs: David Tingay, Australia & Peter Rimensberger, Switzerland

Vascular impact of neonatal respiratory disease

Steven Abman, Denver, USA

14:00 - 15:30

ROOM MILES DAVIS HALL

Controversies in respiratory critical care

Chairs: Guillaume Emeriaud, Canada & Marcus Schultz, Switzerland

14:00 - 14:25

Is there a place for corticosteroids in PARDS?

Florent Baudin, Lyon, France

14:25 - 14:50

P-SILI: does it really exist?

Lise Piquillod, Lausanne, Switzerland

14:50 - 15:05

OP 11: Temporal changes of patient ventilator asynchrony in the first 7 days of intubation in the paediatric intensive care unit.

Douwe van der Steen, Groningen, The Netherlands

15:05 - 15:30

What to do when the recommended classical targets of lung-protective ventilation cannot be achieved?

Peter Rimensberger, Geneva, Switzerland

14:00 - 15:30

ROOM AGORA 5

Non-invasive respiratory support in the neonate

Chairs: David Tingay, Australia & Hanna Soukka, Finland

14:00 - 14:15

OP 12: CPAP beyond PEEP: EIT evidence comparing short soft and standard binasal prongs - randomized cross-over study

Walusa Assad Gonçalves-Ferri, São Paulo, Brazil

14:15 - 14:40

Non-invasive respiratory support: Does the mode and the strategy matter?

Peter Dargaville, Hobart, Australia

14:40 - 15:05

nHFV: A new trend or something more?

Daniele de Luca, Paris, France

15:05 - 15:30

50 years after Gregory, where to next with NIV?

Arjan te Pas, Leiden, The Netherlands

15:30 - 16:00

Coffee break

16:00 - 18:00

ROOM MILES DAVIS HALL

Future directions for respiratory monitoring in children and neonates

Chairs: Martin Kneyber, The Netherlands & David Tingay, Australia

16:00 - 17:00

Monitoring the diaphragm

- The value of monitoring the diaphragm in the neonate

Hanna Soukka, Turku, Finland

- The importance of monitoring the diaphragm in mechanically ventilated children

Guillaume Emeriaud, Montreal, Canada

Panel discussion

17:00 - 18:00

Lung imaging methods at bedside

- Lung ultrasound

Arun Sett, Melbourne, Australia

- Electrical Impedance Tomography

Inez Frerichs, Kiel, Germany

Panel discussion

from 19:00

Networking Event

Main Conference

08:15 - 08:55

ROOM AGORA 5

Morning tutorial (3)

How can bedside respiratory monitoring help to guide ventilatory settings: Learning from the adults

Lise Piquillod, Lausanne, Switzerland

Day 3 (morning): Saturday, October 24, 2026

08:15 - 08:55

ROOM MILES DAVIS HALL

Morning tutorial (4)

Following the preterm lung: long-term outcomes and emerging challenges

Elianne Vrijlandt, Groningen, The Netherlands

09:00 - 10:15

ROOM AGORA 5

Things we might have to focus on better

Chairs: Steven Abman, USA & Florent Baudin, France

09:00 - 09:25 **Follow-up of ventilated children beyond the ICU**
Guillaume Emeriaud, Montreal, Canada

09:25 - 09:50 **ARDS Phenotypes and how do they matter for clinical practice**
Aartik Sarma, San Francisco, USA

09:50 - 10:15 **Ventilator liberation: The major research gaps**
Martin Kneyber, Groningen, The Netherlands

09:00 - 10:15

ROOM MILES DAVIS HALL

How and when?

Chairs: Arjan te Pas, The Netherlands & Helmut Hummler, Germany

09:00 - 09:25 **Closed loop oxygen control: Should it be standard of care?**
Peter Dargaville, Hobart, Australia

09:25 - 09:50 **How and when to wean from non-invasive respiratory support**
Anna Lavizzari, Milan, Italy

09:50 - 10:15 **Oxygen treatment and weaning oxygen in infants with bronchopulmonary dysplasia**
Wes Onland, Amsterdam, The Netherlands

10:15 - 10:45 Coffee break

10:45 - 12:15 **ROOM MILES DAVIS HALL**

Past, Present, and Beyond: Shaping the Future of Paediatric and Neonatal Respiratory Critical Care

Chairs: Martin Kneyber, The Netherlands & David Tingay, Australia

10:45 - 11:15 **Neonatal and Pediatric mechanical ventilation: how it has been and what it is today**
Peter Rimensberger, Geneva, Switzerland

11:15 - 11:45 **New physiology-based concepts in neonatal mechanical ventilation**
Daniele de Luca, Paris, France

11:45 - 12:15 **The key events in PHT management**
Steven Abman, Denver, USA

12:15 **ROOM MILES DAVIS HALL**
Closing