



**EPNV-Montreux 2018: Preliminary Educational and Scientific Program**

**April 25-26, 2018: Pre-Conference Workshops**

Wednesday (April 25): 09'00 – 18'00

Thursday (April 26): 08'00 – 12'00

**April 26-28, 2018: Main Conference**

Thursday (April 26): 12'15 – 18'00

Friday (April 27): 08'00 – 18'15

Saturday (April 28): 08'30 – 12'00

**W1 Disease tailored ventilation strategies**

*Chair: Peter Rimensberger*

This workshop will cover various neonatal lung diseases and conditions and discusses what the best ventilation strategy is. Is it recruitable? Is avoiding overdistension the aim? What is the best modality to use? Who to use respiratory monitoring to better guide and adapt ventilation strategies?

With hands-on group rotations

*Workshop Leaders: David Tingay (Australia), Martin Keszler (US), Andreas Flemmer (Germany), Irwin Reiss (The Netherlands)*

**PGC1 Lung ultrasound (1)**

Basic concepts and protocol guided examination (*Philippe Durand, France*)

**W2 Neonatal HFV ventilators: do they really differ?**

**Function principals, physics, experimental measures, and clinical application**

*Chair: Peter Rimensberger*

Function principals of various machines (*TBN*)

Do waveforms matter (*David Tingay*)

Effect of frequency on pressure damping and gas exchange (*Raffaele Dellaca*)

Do we need "volume guarantee" modes during HFOV (*David Tingay*)

Inspiratory triggering and assisting spontaneous breathing during HFOV (*Andreas Flemmer*)

How I use HFOV in paediatric patients (*Satoshi Nakagawa*)

How I use HFOV in neonates (*Martin Keszler*)

Hands-on group rotations

**PGC2 Lung ultrasound (2)**

Clinical utility of lung ultrasound in the PICU (*Philippe Durand, France*)

Clinical utility of lung ultrasound in the NICU (*Daniele de Luca, France*)

**W3 ECMO: Simulationworkshop**

*TBN*

**W4 Electrical Impedance Tomography (EIT):**

**How does it work, what information can it provide compared to other imaging modalities?**

*Introduction to EIT (Inez Frerichs, Germany)*

*Possible impact of EIT on clinical practice (David Tingay, Australia)*

*The final steps to introduce EIT in clinical practice: the CRADL project (Richard Bayford, UK)*

*What can we see, what can we measure, which output do we get? (TBN)*

*Hands-on*

from 10:30	Check-in and Registration
<b>12:15 - 13:15</b>	Lunch Symposium
<b>13:30 - 13:40</b>	<b>Opening Remarks</b> <i>Peter C Rimensberger (Switzerland)</i>
<b>13:40 - 15:00</b>	<b>Opening Lectures: From Berlin to Montreux</b>
13:40-	The Berlin adult ARDS definition: Does it meet our needs?
14:00	<i>Marco Ranieri (Italy)</i>
14:00-	The paediatric ARDS definition. What does it bring to the table
14:20	<i>Martin Kneyber (The Netherlands)</i>
14:20-	The Montreux neonatal ARDS definition: Will it meet our needs?
14:40	<i>Daniele de Luca (Italy)</i>
14:40-	Panel Discussion
15:00	
<b>15:00 –15:30</b>	Coffee break
<b>15:30- 18:00</b>	<b>The tidal volume and PEEP story revisited</b>
15:30-	What do we know about “optimal” Vt?
16:00	<i>Martin Kneyber (The Netherlands)</i>
16:00-	Individualized Vt-targeting in neonates
16:30	<i>Martin Keszler (USA)</i>
16:30-	My first ventilator settings: A pathophysiologic rationale
17:00	<i>Peter Rimensberger (Switzerland)</i>
17:00-	Pressures and Mechanical Power
17:40	<i>Marcelo Amato (Brazil)</i>
17:40-	The “Open Lung Approach” paradox. Is mechanical power the solution?
18:00	<i>Vicent Modesto i Alapont (Spain)</i>
<b>18:00 - 20:00</b>	Welcome Reception in the Exhibition Area

<b>08:00 - 08:50</b>	<p><b>How to get it right (1) : Extracorporeal support</b>          Extracorporeal support for acute respiratory failure: Shall we rest the lung?  <i>Marco Ranieri (Italy)</i></p> <p>Extracorporeal support for acute respiratory failure: How to manage anticoagulation, when to transfuse?  <i>Heidi Dalton (USA)</i></p>	<p><b>How to get it right (2) : Minimal invasive surfactant therapy</b>          Less and minimal invasive surfactant therapy: Which method, when and how? With or without sedation?  <i>Xavier Durrmeyer (France)</i></p>
<b>09:00 - 10:45</b>	<p><b>Supportive measures in mechanically ventilated children</b></p> <p>09:00- Giving oxygen: not too much, not too little, just what is right          09:25 <i>Alberto Medina (Spain)</i></p> <p>09:25- The sats are low – push in the blood?          09:50 <i>Stacey Valentine (USA)</i></p> <p>09:50- Steroids – what do the adults recommend?          10:05 <i>Marco Ranieri (Italy)</i></p> <p>10:05- Does fluid management affect patient outcome?          10:30 <i>Stacey Valentine (USA)</i></p> <p>10:30- Oral Presentation (1)          10:45</p>	<p><b>Pulmonary hypertension in newborns: Not all clinical scenarios are the same</b></p> <p>09:00- What do before pulmonary vasodilators ?          09:30 <i>Maurice Beghetti (Switzerland)</i></p> <p>09:30- PHT in congenital diaphragmatic hernia: benefits and risks of pulmonary vasodilators during the acute and late stage          09:45 <i>Neil Patel (Scotland)</i></p> <p>09:45- Ongoing Controversies: iNO and sildenafil in the preterm neonate          10:10 <i>Neil Patel (Scotland)</i></p> <p>10:00- PPHN in Bronchopulmonary Dysplasia          10:30 <i>Maria del Cerro (Spain)</i></p> <p>10:30- Panel Discussion          10:45</p>
<b>10:45 - 11:15</b>	Coffee break	
<b>11:15 - 12:30</b>	<b>Poster Walks</b>	<b>5 Oral presentations (pediatric topics)</b>
<b>12:45 - 13:45</b>	<b>Lunch symposium</b>	
		<b>5 Oral presentations (neonatal topics)</b>

<b>14:00- 14:50</b>	<b>Functional measurements at bedside (1)</b>	<b>Functional measurements at bedside (2)</b>
14:00- 14:30	Lung function assessment in the ICU : The essentials <i>Andreas Schibler (Australia)</i>	14:00- 14:50
14.30- 14:50	Newer concepts for the neonatal ICU: <i>Raffaele Dellaca (Italy)</i>	Assessing cardiopulmonary interactions with ultrasound in the neonate <i>Yogen Singh (UK)</i>
<b>15:00 -16:15</b>	<b>Challenges and risks when assisting spontaneous breathing</b>	<b>BPD - an ongoing challenge</b>
14:45- 15:10	The inadvertent risks of assisting spontaneous breathing <i>Marcelo Amato (Brazil)</i>	14:45- 15:10
15:10- 15.35	Is tidal volume variability in spontaneously breathing preterm infants a bad thing? <i>Georg Schmölzer (Canada)</i>	15:10- 15.35
15:35- 16:15	Towards better synchronization and proportional assist of spontaneous breathing <i>TBN</i>	15:35- 16:00
		Why did most intervention studies for BPD fail <i>Olivier Baud (Switzerland)</i>
		Is the problem the diagnosis or do we need a new way of assessing respiratory outcomes ? <i>David Tingay (Australia)</i>
		Mechanical ventilation in BPD patients <i>Martin Keszler (USA)</i>
<b>16:15- 16:45</b>	<i>Coffee break</i>	
<b>16:45 - 18:15</b>	<b>Bronchiolitis – an ongoing challenge</b>	<b>Trends towards newer modes of non-invasive support in neonates</b>
16:45- 17:10	RSV Prevention: Is the mother the solution? <i>TBN</i>	16:45- 17:05
17:10- 17:50	HFNC is my first choice <i>Andreas Schibler (Australia)</i> CPAP is my first choice <i>Alberto Medina (Spain)</i>	17:05- 17:25
17:50- 18:15	Roundtable discussion: Ventilating a baby with bronchiolitis?  <i>Alberto Medina (Spain), Andreas Schibler (Australia), Martin Kneyber (The Netherlands)</i>	17:25- 17:45
		NIPPV in the neonate: Towards better synchronization – what is needed ? <i>Peter Rimensberger (Switzerland)</i>
		NIPPV in the neonate: Experience with the abdominal wall movement signal <i>Andreas Flemmer (Germany)</i>
		NIPPV in the neonate: Experience with the diaphragmatic signal <i>Howard Stein (USA)</i>
		Nasal HFOV: do we yet know how, for whom and when? <i>Daniele de Luca (France)</i>
		18:05- 18:15
		Panel discussion
from 19:00	<i>Departure to Networking Dinner</i>	

<b>08:30 - 09:30</b>	<b>How to get it right (3): severe ARDS</b>	<b>Respiratory transition and respiratory support after preterm birth</b>
08:30-09:00	Refractory hypoxemia, what to do? A physiologic approach <i>Martin Kneyber (The Netherlands)</i>	08:30-09:00 Should we extend our monitoring during transition after preterm birth? <i>Georg Schmölzer (Canada)</i>
09:00-09:30	When to use HFOV in PARDS: Clinical perspective <i>Satoshi Nakagawa (Japan)</i>	09:00-09:30 How do babies breathe at birth? Insights from imaging the first breathes of life <i>David Tingay (Australia)</i>
09:30 - 10:00	<i>Coffee break</i>	
<b>10:00 - 12:00</b>	<b>Clinical study designs: How to become better?</b>	
10:00-10:30	The use of Registries for Data analysis and hypothesis generation (The example of ELSO) <i>Heidi J Dalton (USA)</i>	
10:30-11:00	Prevention studies : The neonatologists view <i>Olivier Baud (Switzerland)</i>	
11:00-11:45	Intervention studies: The neonatologists view Is bringing back physiology to clinical trials a solution? <i>Martin Keszler (USA)</i>	
11:45-12:00	Panel discussion	
<b>12:00</b>	<b>Closing</b>	

*Please note that this scientific program is preliminary and subject to changes!*

*(version 08/01/18)*