



Preliminary Educational and Scientific Program

May 10 -11, 2023: *Pre-Conference Workshops*

Wednesday (May 10): 09'00 – 18'00

Thursday (May 11): 08'00 – 12'00

May 11-13, 2023: *Main Conference*

Thursday (May 11): 12'15 – 18'00

Friday (May 12): 08'15 – 18:00

Saturday (May 13): 08'15 – 12'45

W1 Newer ventilation modes and concepts in neonatal ventilation

- 09:00-09:30 *Volume Targeted Ventilation (David Tingay, Australia)*
09:30-10:00 *NAVA (TBN)*
10:00-10:30 *Open Lung Concept (Anton van Kaam, Netherlands)*
10:30-10:45 *Q&A*
10:45-11:00 *Coffee break*
11:00-13:00 *3 hands-on stations (VTV/NAVA/OLC) with 3 rotating groups*

supported by unrestricted educational grant

W2 Non-invasive ventilation for acute and chronic respiratory failure in children

- *To delay or prevent endotracheal intubation (TBN)*
- *For weaning (Padmanabhan Ramnarayan, UK)*
- *Longterm non-invasive respiratory support (Juerg Hammer, Switzerland)*
- *Negative pressure (biphasic cuirass) ventilation for acute and chronic respiratory failure (Omar Alibrahim, USA)*

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W4 How to set the ventilator: a practical approach to CMV and HFOV

- *Setting the ventilator for obstructive airway disease (TBN)*
- *Setting the ventilator for restrictive lung disease (Peter Rimensberger, Switzerland)*
- *Setting the oscillator in children (Martin Kneyber, Netherlands)*

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W5 Non-invasive ventilation in prematurely born infants

- *HFNC (TBN)*
- *nCPAP: devices, setting pressures (TBN)*
- *NIPPV (TBN)*
- *NIV-NAVA (TBN)*
- *nHFOV (Daniele de Luca, France)*

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W6 ECMO

TBA

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W7 The use of various measures and monitoring concepts during mechanical ventilation in children and neonates

- *Monitoring gas exchange and what additional information can be gained from it (TBN)*
- *Monitoring patient-ventilator synchrony and patient effort during assisted breathing (Martin Kneyber, Netherlands)*
- *Clinical application of the Forced Oscillation Technique (FOT) (Anna Lavizzari, Italy)*

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W8 Closed loop oxygenation and its clinical application

Christian Poets, Germany; Tomasz Szczapa, Poland; and TBN

- *How it was developed*
- *Development of algorithms*
- *Various technical solutions*
- *Pitfalls*
- *Clinical outcome*

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W9 Diagnosis and management of arrhythmias in the PICU/CICU

- *Using the pacemaker*
- *Defibrillation*
- *Cardioversion*

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from 10:30	Check-in and Registration	
12:15- 13:15	(TBA)	
13:30- 13:45	EPNV Opening Remarks <i>Peter C Rimensberger (Switzerland)</i>	EPNCIC Opening Remarks <i>Aparna Hoskote (UK), Angelo Polito (Switzerland)</i>
13:45- 15:00	Todays perspective on landmark papers in neonatal respiratory failure	Hemodynamics in the in the critically ill child with congenital heart disease – What I need to know?
	13:45- 14:10 52 years later: The 'Gregory box' (CPAP) <i>Gregory GA et al. Treatment of the Idiopathic Respiratory-Distress Syndrome with Continuous Positive Airway Pressure. N Engl J Med 1971; 284:1333-1340</i> <i>Haresh Kirpalani (USA)</i>	13:45- 14:05 Cardiac mechanics: the complex interplay of cardiac output determinants (TBN)
	14:10- 14:35 43 years later: Surfactant for RDS <i>Fujiwara T et al. Artificial surfactant therapy in hyaline membrane disease. Lancet 1980; i:55-59</i> <i>Alan Jobe (USA)</i>	14:05- 14:25 LCOS, the uninvited guest: definition, pathophysiology, invasive and non-invasive monitoring <i>Aparna Hoskote (UK)</i>
	14:35- 15:00 40 years later: Systemic steroids for BPD <i>C Mammel MC et al. Controlled trial of dexamethasone therapy in infants with bronchopulmonary dysplasia. Lancet 1983; 18;1(8338);1356-8</i> <i>Anton van Kamm (Netherlands)</i>	14:25- 14:45 Inotropic drugs and afterload reduction in LCOS: do we get it right? <i>Angelo Polito (Switzerland)</i>
		14:45- 15:00 Q&A
15:00- 15:45	Coffee break	
15:45- 17:00	Todays perspective on landmark papers in mechanical ventilation	The failing myocardium from congenital to acquired causes across all ages
	15:45 - 16:10 56 years later: Ashbaugh and ARDS definitions <i>Ashbaugh D et al. The Lancet 1967; 290 (7511): 319-323</i> <i>Guillaume Emeriaud (Canada)</i>	15:45- 16:00 Dilated, hypertrophic or restrictive: distinct entities, overlapping features (TBN)
	16:10- 16:35 25 years later: Lung protective ventilation <i>Amato M et al. Effect of a protective-ventilation strategy on mortality in the acute respiratory distress syndrome. Engl J Med 1998; 338:347-54</i> <i>Marcelo Amato (Brazil)</i>	16:00- 16:25 Heart on fire: the inflamed myocardium (myocarditis, MIS-C, Kawasaki disease) The intensivists' view <i>Serge Grazioli (Switzerland)</i> The cardiologist's view <i>Julie Wacker (Switzerland)</i>

	<p>16:35- 10 years later: HFOV in the adult setting and what I have learned from it 17:00 <i>Niall Ferguson et al. High-Frequency Oscillation in Early Acute Respiratory Distress Syndrome. Engl J Med 2013; 368:795-805</i> Martin Kneyber (Netherlands)</p>	<p>16:25- How, when, for whom: a simplified approach to ECLS indications? 16:40 <i>Ravi Thiagarajan (USA)</i></p>
<p>17:00- 18:00</p>	<p>Dynamic lung imaging methods in the PICU and NICU: What do these methods add to improve patient care?</p> <p>17:00- Lung Ultrasound 17:30 (TBN)</p> <p>17:30- Electrical Impedance Tomography 18:00 (TBN)</p>	<p>The right ventricle: sadly misunderstood?</p> <p>17:00- When side matters: why is the RV so special? 17:20 <i>Aparna Hoskote (UK)</i></p> <p>17:20- Acute pulmonary hypertension 17:40 <i>Maurice Beghetti, Switzerland</i></p> <p>17:40- Meeting an old friend: the failing Fontan patient 18:00 (TBN)</p>
<p>18:00- 20:00</p>	<p>Welcome Reception in the Exhibition Area</p>	

08:15-08:55	Morning tutorial (1) Neonatal physiology for the intensivist (PICU/CICU) <i>David Tingay (Australia)</i>	Morning Tutorial (2) Better together: Cardiopulmonary interactions <i>(TBN)</i>	
09:00-10:15	Evolving concepts in mechanical ventilation	Nutrition Management in respiratory care of the chronically supported and acutely supported infant/child	The neonate with CHD: a walk on eggshells
	09:00-09:30 SILI: Do we have any evidence for it in children and neonates? <i>Guillaume Emeriaud, (Canada)</i>	09:00-09:30 Nutritional support in neonates with respiratory support <i>(TBN)</i>	09:00-09:20 Pre-operative management of the neonatal congenital heart disease <i>Angelo Polito (Switzerland)</i>
	09:30-10:00 Mechanical power or driving pressure and respiratory rate only? <i>Marcelo Amato (Brazil)</i>	09:30-10:00 Individualized nutrition strategies in pediatric mechanical ventilation <i>Padmanabhan Ramnarayan, UK</i>	09:20-09:40 Struggling to find balance: univentricular physiology in the post-operative period <i>(TBN)</i>
	10:00-10:15 Roundtable discussion /Oral presentation	10:00-10:15 Roundtable discussion /Oral presentation	09:40-10:00 Severe persistent pulmonary hypertension: let's prepare for a hard fight <i>Hannes Sallmon (Austria)</i>
	10:00-10:15 Q&A		
10:15-10:45	Coffee break		
10:45-12:00	Poster Walks (paediatric topics) Oral presentations (paediatric topics)	Poster Walks (neonatal topics) Oral presentations (neonatal topics)	Cardiac arrest in CICU <i>Chairs: Aparna Hoskote (UK) and TBN</i> 10:45-11:00 From reaction to prevention: can we reduce CA events in CICU? <i>(TBN)</i> 11:00-11:15 Pharmacologic treatments during CPR: the lesser the better? <i>(TBN)</i> 11:15-11:30 Mitigating CA consequences <i>Ravi Thiagarajan (USA)</i> 11:30-11:45 ECPR: ready to pull the trigger? <i>(TBN)</i>

			11:45- Q&A 12:00
12:05- 13:05	New techniques for optimizing patient care and ventilation strategy <ul style="list-style-type: none">- Optimization of PEEP/MAP using FOT- Automated control of FiO2 for the newborn <i>Speakers: Raffaele Dellaca' (Italy); Tobias Werther (Austria); Tomasz Szczapa (Poland)</i>		

13:15-13:55	Special Guest Lecture Designing clinical trials in critical care: Do we have to rethink it? <i>Alan Jobe (USA)</i>		
14:00-15:40	Alternative ventilation modes and approaches	Hemodynamic controversies and challenges in the NICU (joint session EPNV/EPNCIC)	Residual lesions after CHD surgery
14:00-14:25	Airway pressure release ventilation (APRV) in children: Shall we forget it? <i>Saptharishi Lalguldi Ganesan (Canada)</i>	14:00- PDA management: Where are we now? 14:30 (TBN)	14:00- Not over yet: how to detect residual lesions? 14:20 (TBN)
14:25-14:50	The potential of closed-loop mechanical ventilation <i>Pedro David Wendel Garcia (Switzerland)</i>	14:30- Acute Pulmonary Hypertension: Can we learn from the PICU? 15:00 <i>Neil Patel (Scotland)</i>	14:20- The earlier the better? – What and when residual lesions should be corrected? 14:40 (TBN)
14:50-15:15	Variable ventilation: are we ready for the bedside? <i>Walid Habre (Switzerland)</i>	15:00- Pulmonary Hypertension and BPD 15:30 <i>Hannes Sallmon (Austria)</i>	14:40- In need for an answer: CHO, CT/IRM and Cath Lab or none 15:00 <i>Julie Wacker (Switzerland)</i>
15:15-15:40	Biphasic cuirass ventilation: For whom and when? <i>Omar Alibrahim (USA)</i>		15:00- Q&A 15:10
		15:30- Oral presentation 15:40	15:10- Oral presentations (3) 15:40
15:40-16:10	Coffee break		
16:10-18:00	PARDS and nARDS: Update on the PALICC 2 recommendations	Update on BPD	Transfusion and anticoagulation in CICU
16:10-16:35	PARDS: any news on ventilator management <i>Peter Rimensberger (Switzerland)</i>	16:10- Definitions and Pathophysiology: Why haven't we got it right yet? 16:35 <i>Alan Jobe (USA)</i>	16:10- The transfusion conundrum: confronting international guidelines to real life (20 min) 16:30 (TBN)
16:35-16:00	PARDS: Personalised medicine is next <i>Martin Kneyber (The Netherlands)</i>	16:35- Prevention and Prediction 16:00 (TBN)	16:35- Thrombosis prophylaxis in the cardiac patient (20 min) 16:00 (TBN)
16:00-17:25	PARDS: Controversies on Steroids and iNO <i>Guillaume Emeriaud (Canada)</i>	16:00- Effects on long term development 17:25 <i>Jeanie Chong (Australia)</i>	16:00- Anticoagulation and transfusion in ECLS: A riddle wrapped in a mystery inside an enigma (20 min) 17:25 <i>Ravi Thiagarajan (USA)</i>

	17:25- nARDS: Is it really different from PARDS? 17:50 <i>Daniele de Luca (France)</i>	17:25- How to do the long term follow up of the BPD 17:50 patient (TBN)	17:25- Q&A 17:40 <hr/> 17:40- <i>Oral presentation</i> 17:50
<i>from</i> 19:00	Networking-Event		

08:15-08:55	Morning tutorial (3) Lung - Brain Interaction <i>Saptharishi Lalguldi Ganesan (Canada)</i>	Morning tutorial (4) Update on recent developments in the delivery room <i>(TBN)</i>	Morning tutorial (5) Diagnosis and management of arrhythmias in ICU <i>(TBN)</i>
09:00-10:00	Pragmatic vs explanatory trials in paediatric and neonatal critical care	Airway management in the NICU/PICU: Evolving concepts	Protecting the patient while fixing the heart
09:00-09:25	Lessons learned from the FIRST-ABC study <i>Padmanabhan Ramnarayan (UK)</i>	09:00-09:25 SHINE - THRIVE: high flow nasal cannula oxygen for intubation in neonates and children Where are we? <i>Andreas Schibler, Australia</i>	09:00-09:25 Stroke prevention and management <i>(TBN)</i>
09:25-09:50	Artificial Intelligence, Machine Learning and Prediction in the NICU: Benefits and barriers <i>Jeanie Cheong (Australia)</i>	09:25-09:50 Any place for the laryngeal mask in the ICU? <i>Arash Afshari (Denmark)</i>	09:25-09:50 To feed or not to feed? The gut in CHD <i>(TBN)</i>
09:50-10:15	Big data to optimize ventilation strategies <i>David Tingay (Australia)</i>	09:50-10:15 What can an Anaesthetist teach us? <i>Arash Afshari (Denmark)</i>	09:50-10:15 Water everywhere: fluid balance, AKI and their interplay <i>(TBN)</i>
10:15-10:45	Coffee break		
10:45-11:50	Respiratory and hemodynamic challenges in non-cardiac patients (joint session EPNV, EPNCIC)		
10:45-11:10	Acute Liver Failure <i>Serge Grazioli (Switzerland)</i>		
11:10-11:35	Asthma <i>Juerg Hammer (Switzerland)</i>		
11:35-11:50	Congenital diaphragmatic hernia <i>Neil Patel (Scotland)</i>		
11:55-12:20	Closing lecture (joint session EPNV, EPNCIC) Chairs: Permissive hypoxemia or hyperoxemia in ARDS: Are they of any good? <i>Jean-Daniel Chiche (Switzerland)</i>		
12:20-12:30	Closing		

Please note that this scientific program is preliminary and subject to changes!
(version 05.01.2023)