

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

Pre-Congress Workshops (1)

W1 Newer ventilation modes, strategies and concepts in neonatal ventilation

- Volume Targeted Ventilation during CMV (David Tingay, Australia)
- Volume Targeted Ventilation during HFOV (Manuel Sanchez Luna, Spain)
- Searching for optimal lung volumes (Anton van Kaam, Netherlands)
- Case scenarios and hands-on

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

- To delay or prevent endotracheal intubation (Joe Brierley, UK)
- 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)
- Case scenarios and hands-on

Pre-Congress Workshops (2)

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

- Setting the ventilator: Basic concepts applied (Peter Rimensberger, Switzerland)
- Setting the ventilator for restrictive, obstructive and mixed lung disease (Juerg Hammer, Switzerland)
- Setting the oscillator in children (Martin Kneyber, Netherlands)
- Case scenarios, simulations and hands-on

W5 Non-invasive ventilation in prematurely born infants

- HFNC (Manuel Sanchez Luna, Spain)
- nCPAP: various working principals, setting pressures (David Tingay, Australia)
- NIPPV (Haresh Kirpalani (USA)
- nHFOV (Daniele de Luca, France)
- Case scenarios and hands-on (Anna Lavizzari, Italy and faculty)

W6 ECMO: Workshop on VV and VA ECMO for beginners and advanced providers

- Circuit Set Up for Neonates and Pediatrics-Facts and pitfall (Malaika Menonca, Switzerland)
- Cardiac VA ECMO: From on to off (start to weaning) (Aparna Hoskote, UK)
- Respiratory ECMO: VV/VA when, why and how ? (Angelo Polito, Switzerland)
- Addressing Complications and weaning of VV ECMO (Pete Roeleveld, The Netherlands)
- Case scenarios and hands-on: Troubleshooting, Component Complications, Scenarios and case discussions on VV ECMO and VA ECMO simulation in small groups

This workshop is limited to 28 participants

Pre-Congress Workshops and Postgraduate Courses (2)

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

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

W8 Closed loop oxygenation and its clinical application

- Introduction & historical overview (Christian Poets, Germany)
- A simulator to test different FiO₂-controllers (Hylke Salverda, The Netherlands)
- FiO₂-control in the delivery room (Tomasz Szczapa, Poland)
- Pitfalls during automated FiO₂-control (Christoph Schwarz, Germany)
- Hands-on session with rotating groups
- Outlook & concluding remarks (Christian Poets, Germany)

Thursday May 11, 2023 - 10.00 - 12.00

W9 External and epicardial pacing in the PICU/CICU

Workshop leaders: Johan Lindhout and Pete Roeleveld (The Netherlands)

- Basics in external/epicardial pacing:
 - how does a pacemaker work
 - types of pacing: aai, vvi, DDD
 - determining sensing threshold
 - determining pacing threshold
 - setting the pacemaker
- Troubleshooting:
 - oversensing
 - undersensing
 - problems with capture
 - pacemaker induced arrhythmia

from 10:30	Check-in and Registration			
12:15- 13:15	Lunch Symposium	Lunch Symposium		
13:30- 13:45	EPNV Opening Remarks Peter C Rimensberger (Switzerland)	EPNCIC Opening Remarks Aparna Hoskote (UK), Angelo Polito (Switzerland)		
13:45- 15:00	Todays perspective on landmark papers in neonatal respiratory failure <i>Chairs: David Tingay (Australia), Daniele de Luca (France)</i>	Hemodynamics in the in the critically ill child with congenital heart disease – What I need to know? Chairs: Angelo Polito (Switzerland) and Brigitte Stiller (Germany)		
	13:45- 52 years later: The 'Gregory box' (CPAP) 14:10 Gregory GA et al. Treatment of the Idiopathic Respiratory-Distress Syndrome with Continuous Positive Airway Pressure. N Engl J Med 1971; 284:1333-1340 Haresh Kirpalani (USA)	 13:45- Cardiac mechanics: the complex interplay of cardiac output determinants 14:05 Joan Sanchez de Toledo (Spain) 		
	 14:10- 43 years later: Surfactant for RDS 14:35 Fujiwara T et al. Artificial surfactant therapy in hyaline membrane disease. Lancet 1980; i:55-59 Daniele De Luca (France) 	 14:05- LCOS, the uninvited guest: definition, pathophysiology, invasive and non-invasive 14:25 monitoring Aparna Hoskote (UK) 		
	14:35- 40 years later: Systemic steroids for BPD 15:00 C Mammel MC et al. Controlled trial of dexamethasone therapy in infants with bronchopulmonary dysplasia. Lancet 1983; 18;1(8338);1356-8	 14:25- Inotropic drugs and afterload reduction in LCOS: do we get it right? 14:45 Malaika Mendonca (Switzerland) 		
	Anton van Kamm (The Netherlands)	14:45- Q&A 15:00		
15:00- 15:45	Coffee break			
15:45- 18:00	Todays perspective on landmark papers in mechanical ventilation Chairs: Peter Rimensberger (Switzerland) and Saptharishi Lalguldi Ganesan (Canada)	The failing myocardium from congenital to acquired causes across all ages <i>Chairs: Pete Roeleveld (The Netherlands) and Aparna Hoskote (UK)</i>		
	15:45 -56 years later: Ashbaugh and ARDS definitions16:10Ashbaugh D et al. The Lancet 1967; 290 (7511): 319-323Guillaume Emeriaud (Canada)	 15:45- Dilated, hypertrophic or restrictive: distinct entities, overlapping features 16:00 Brigitte Stiller (Germany) 		
	 16:10- 25 years later: Lung protective ventilation 16:35 Amato M et al. Effect of a protective-ventilation strategy on mortality in the acute respiratory distress syndrome. N Engl J Med 1998; 338:347-54 Marcelo Amato (Brazil) 	 16:00- Heart on fire: the inflamed myocardium (myocarditis, MIS-C, Kawasaki disease) 16:20 The intensivist's view Serge Grazioli (Switzerland) The cardiologist's view Julie Wacker (Switzerland) 		

	16:35- 17:00	10 years later: HFOV in the adult setting and what I have learned from it Niall Ferguson et al. High-Frequency Oscillation in Early Acute Respiratory Distress Syndrome. N Engl J Med 2013; 368:795-805 Martin Kneyber (The Netherlands)	 16:20- How, when, for whom: a simplified approach to ECLS indications? 16:35 Ravi Thiagarajan (USA)
			16:35- Management of acute decompensated heart failure: from the cradle to the ICU16:50 Brigitte Stiller (Germany)
			16:50- Q&A 17:00
	Dynamic	c lung imaging methods in the PICU and NICU: What do these methods add to	The right ventricle: sadly misunderstood?
	•	patient care?	Chairs: Ravi Thiagarajan (USA) and Maurice Beghetti (Switzerland)
	Chairs: L	David Tingay (Australia) and Anton van Kaam (The Netherlands)	
	17:00-	Lung Ultrasound	17:00- When side matters: why is the RV so special?
	17:25	Daniele De Luca (France)	17:20 Aparna Hoskote (UK)
	17:25-	Electrical Impedance Tomography	17:20- Acute pulmonary hypertension
	17:50	Felipe Rossi (Brazil)	17:40 Maurice Beghetti (Switzerland)
	17:50-	Oral Presentation EPNV	17:40- Meeting an old friend: the failing Fontan patient
	18:00	OP 1: Use of Electrical impedance tomography in a pediatric intensive care unit	18:00 Jürgen Hörer (Germany)
		Florent Baudin (France)	
18:00- 20:00	Welcom	e Reception in the Exhibition Area	

08:15- 08:55	Morning tutorial 1 Neonatal physiology for the intensivist (PICU/CICU) David Tingay (Australia)		Morning Tutorial 2 (joint session EPNV/EPNCIC) Better together: Cardiopulmonary interactions Matteo Di Nardo (Italy), Aparna Hoskote (UK)		
<i>09.00-</i> 10:15	Evolving concepts in mechanical ventilation Chairs: Martin Kneyber (Netherlands) and Peter Rimensberger (Switzerland) 09:00- SILI: Do we have any evidence for it in children 09:30 and neonates? Guillaume Emeriaud, (Canada) 09:30- Mechanical power or driving pressure and 10:00 respiratory rate only? Marcelo Amato (Brazil)	Chairs: Daniele de Luca (France) and Joe Brierley (UK) 09:00- Nutritional support in neonates with respiratory 09:30 support Manuel Sanchez Luna (Spain) 09:30- Individualized nutrition strategies in pediatric		Chairs: Ho (Switzerla 09:00- 09:25 09:25- 09:50	ate with CHD: a walk on eggshells annes Sallmon (Germany) and Malaika Mendonca and) Pre-operative management of the neonatal congenital heart disease Angelo Polito (Switzerland) Struggling to find balance: univentricular physiology in the post-operative period Cailyn Rood (USA)
	<i>10:00-</i> Roundtable discussion / Oral presentation <i>10:15</i>	· · ·		10:15	Severe persistent pulmonary hypertension: let's prepare for a hard fight Hannes Sallmon (Germany)
10:15- 10:45	Coffee break				
10:45- 12:00	Poster Walks (paediatric topics) Poster Moderators: Guillaume Emeriaud (Canada) ; Matteo Di Nardo (Italy)	Poster Walks (neonatal topics) Poster Moderators : Neil Patel (Kipfmüller (Germany)			
10:45- 12:00	Oral presentations (paediatric topics)				lesions after CHD surgery parna Hoskote (UK) and Cailyn Rood (USA)
	 OP 3: Using surface electromyography of parasternal intercostal muscles and diaphragm to quantify patient-ventilator interaction Alette Koopman (The Netherlands) OP 5: Association of severe hyperoxemic events and excess mortality in pediatric critical care: An observational study Tom Bachmann (Czech Republic) OP 6: Acute respiratory distress syndrome: Response to high frequency oscillation ventilation in a population of children with ARDS and according to its subtypes (direct versus indirect ARDS) 	OP 7: Higher continuous positive prevent extubation failure in extremely preterm infants: A ra <i>Anna Kidman (Australia)</i> OP 8: Short and long-term respi unplanned extubation in the NIG Prospective study from the SEPI <i>Hélène Yager (France)</i> OP 9: Work of breathing and co comparing non-invasive neurally and continuous positive airway	ndomized controlled trial. ratory outcomes after CU: A REVEN trial mfort in preterm infants y adjusted ventilatory assist	10:45- 11:15 11:15- 12:00	In need for an answer: CHO, CT/IRM and Cath Lab or none Julie Wacker (Switzerland) The earlier the better? – What and when residual lesions should be corrected? 3 points of view (round table) Maurice Beghetti (Switzerland) Jürgen Hörer (Germany) Aparna Hoskote (UK)

	Fabienne Gebistorf (Switzerland)	crossover study Hilde Brenne (Norway) OP 10: Optimized lung expansi ventilation-induced lung injury Matthias Hüten (The Netherlan OP 11: Lung function response for the prevention and treatme dysplasia Emanuela Zannin (Italy)	in preterm lambs nds) to postnatal corticosteroids	
12:05- 13:05	Lunch Symposium		Lunch Symposium	

13:15- 13:55	Special Guest Lecture Designing clinical trials in critical care: Do we have to rethin Haresh Kirpalani, US	nk it?		
14:00- 15:40	Alternative ventilation modes and approaches Chairs: Peter Rimensberger (Switzerland) and Guillaume Emeriaud (Canada)	Hemodynamic controversies and challenges in the NICU (joint session EPNV/EPNCIC) Chairs: Neil Patel (Scotland) and David Tingay (Australia)	Cardiac arrest in CICU Chairs: Aparna Hoskote (UK) and Julie Wacker (Switzerland)	
	 14:00- Airway pressure release ventilation (APRV) in 14:25 children: Shall we forget it? Saptharishi Lalguldi Ganesan (Canada) 	14:00- PDA management: Where are we now?14:30 Samir Gupta (UK)	 14:00- From reaction to prevention: can we reduce CA events 14:15 in CICU? Cailyn Rood (USA) 14:15- Pharmacologic treatments during CPR: the lesser the 14:30 better? 	
	14:25- 14:50The potential of closed-loop mechanical ventilation Pedro David Wendel Garcia (Switzerland)	14:30- Acute Pulmonary Hypertension: Can we learn from 15.00 the PICU? Neil Patel (Scotland)	Angelo Polito (Switzerland)14:30- 14:45Mitigating CA consequences Ravi Thiagarajan (USA)14:45- 15:00ECPR: ready to pull the trigger? Pete Roeleveld (The Netherlands)	
	14:50-Variable ventilation: are we ready for the15:15bedside?Walid Habre (Switzerland)	15:00- 15:30 Pulmonary Hypertension and BPD Hannes Sallmon (Germany)	15:00- Q&A 15:10	
	15.15- Biphasic cuirass ventilation: For whom and 15:40 when? Omar Alibrahim (USA)		 15:10- 15:40 OP 12: Dynamic platelets transfusion thresholds In pediatric ECMO - giving less and gaining more <i>Eran Shostak, (Israel)</i> OP 13: Standard versus high-risk extubation readiness test (ert) protocol for cardiac patients: A quality improvement (qi) project <i>Chen Yun Goh (Singapore)</i> OP 14: Extubation failure in the pediatric population after cardiac surgery <i>Sabien Heisterkamp (The Netherlands)</i> 	

16:20- 18:00	PARDS and nARDS: Update on the PALICC 2 recommendations Chairs: Joe Brierley (UK) and Omar Alibrahim (USA)	Update on BPD <i>Chairs: Anton van Kaam (The Netherlands) and Samir Gupta</i> <i>(UK)</i>	Protecting the patient while fixing the heart <i>Chairs: Malaika Mendonca (Switzerland) and Serge Grazioli</i> <i>(Switzerland)</i>
	<i>16:20-</i> PARDS: any news on ventilator management<i>16:45</i> Peter Rimensberger (Switzerland)	16:20-Definitions and Pathophysiology: Why haven't we16:45got it right yet?Wes Onland (The Netherlands)	16:20- Inflammation on CPB: friend of foe?16:45 Walid Habre (Switzerland)
	 16:45- PARDS: Personalised medicine is next 17:10 Martin Kneyber (The Netherlands) 	16:45- Prevention and Prediction17:10 Wes Onland (The Netherlands)	16:45-Early detection of neurological17:10complications postoperativelyFrancesca Iodice (ITA)
	 17:10- PARDS: Controversies on Steroids and iNO 17:35 Guillaume Emeriaud (Canada) 	17:10- Effects on long term development17:35 Jeanie Chong (Australia)	17:10-Stroke prevention and management17:35Laszlo Vutskits, Switzerland
	<i>17:35-</i> nARDS: Is it really different from PARDS?<i>18:00</i> Daniele de Luca (France)	 17:35- Respiratory morbidity in formerly preterm infants 18:00 with and without BPD: How to diagnose and to follow up these infants" Anna Lavizzari (Italy) 	 17:35- Water everywhere: fluid balance, AKI and their 18:00 interplay Valeria Raggi (Italy)
from 19:00	Networking-Event		

08:15- 08:55	Morning tutorial 3 Lung - Brain Interaction Saptharishi Lalguldi Ganesan (Canada)	Morning tutorial 4 (joint session EPNV/EPNCIC) Early detection and management of circulatory failure in the neonate Samir Gupta (UK)	Morning tutorial 5 Diagnosis and management of arrhythmias in ICU Valeria Raggi (Italy) Francesca Iodice (Italy)
09:00- 10:00	Pragmatic vs explanatory trials in paediatric and neonatal critical care <i>Chairs: Martin Kneyber (The Netherlands) and Guillaume Emeriaud (Canada)</i>	Airway management in the NICU/PICU: Evolving concepts <i>Chairs: Juerg Hammer (Switzerland) and Walid Habre</i> <i>(Switzerland)</i>	Transfusion and anticoagulation in CICU Chairs: Angelo Polito (Switzerland) and Pete Roeleveld (The Netherlands)
	09:00-Lessons learned from the FIRST-ABC study09:25Padmanabhan Ramnarayan (UK)	09:00-SHINE - THRIVE: high flow nasal cannula oxygen for09:25intubation in neonates and children Where are we?Andreas Schibler, Australia	09:00- 09:25The transfusion conundrum: confronting international guidelines to real life Joan Sanchez Toledo (Spain)
	09:25-Artificial Intelligence, Machine Learning and09:50Prediction in the NICU: Benefits and barriersJeanie Cheong (Australia)	09:25-Any place for the laryngeal mask in the ICU?09:50Arash Afshari (Denmark)	09:25-Thrombosis prophylaxis in the cardiac patien09:50Heleen van Ommen (The Netherlands)
	09:50- Big data to optimize ventilation strategies10:15 David Tingay (Australia)	09:50- What can an Anaesthesist teach us?10:15 Arash Afshari (Denmark)	 09:50- Anticoagulation and transfusion in ECLS: A 10:15 riddle wrapped in a mystery inside an enigma Ravi Thiagarajan (USA)
10:15- 10:45	Coffee break		Navi Thiogarajan (05A)
10:45- 12:05	Respiratory and hemodynamic challenges in non-cardiac p Chairs: Angelo Polito (Switzerland), David Tingay (Australia	•	
	10:45-Acute Liver Failure11:05Serge Grazioli (Switzerland)		
	11.05- Asthma 11:25 Juerg Hammer (Switzerland)		
	11.25- Bronchiolitis 11:45 Joan Sanchez de Toledo & Maria Lucia Rossi(Spain	n)	
	11.45-Congenital diaphragmatic hernia12:05Neil Patel (Scotland)		

12:10-	Closing lecture (joint session EPNV, EPNCIC)
12:40	Chairs: Peter Rimensberger (Switzerland and Angelo Polito (Switzerland)
	Permissive hypoxemia or hyperoxemia in ARDS: Are they of any good?
	Marcelo Amato (Brazil)
12:40- 12:45	

(version 08.05.2023)