

Schedule 2025 Hemodynamics Club

Hemodynamic Physiology and Treatment Targeting in the Extreme Preterm Infant

8:30 AM - Speaker Introductions

Martin Kluckow. FRACP PhD Royal North Shore Hospital & University of Sydney, Australia

8:30 AM - Early Screening for PDA and Targeted Treatment (25 min)

Samir Gupta. MD. DM.FRCPCH.FRCPI Sidra Medicine. Qatar & Durham University UK

8:55 AM - Targeting Cardiovascular Phenotypes in the Care of Extremely Preterm infants (25 min)

Patrick McNamara. MB BCh MRCPCH MSc – University of Iowa Health Care

09:20 AM Wrap up and the Future in Phenotypes & Targeted Treatment. (10 min)

Audrey Hebert. MD. FRCPC. MHS – CHU de Quebec – University Laval

09:30 – 09:50 AM - Audience Q & A

PAS Hemodynamics Club 2004–2024

2004: Low systemic blood flow **Speakers:** Nick Evans, Michael Weindling

2005: Cerebral Blood Flow **Speakers:** David Osborn, Adre Du Plessis

2006: Relative adrenal insufficiency **Speakers:** Kristi Watterberg, Cynthia Cole

2007: Systemic blood flow during transition; **Speakers:** Nick Evans, Mary Paradisi

2008: Organ blood flow with a focus on CBF during transition; **Speaker:** Michael Weindling

2009: Patent ductus arteriosus; **Speaker:** Ron Clyman

2010: Diagnosis, treatment and outcome of PPHN; **Speakers:** Nick Evans, Keith Barrington

2011: Cerebral oxygenation; **Speakers:** Frank van Bel, Petra Lemmers

2012: MRI and echocardiography; **Speakers:** Alan Groves, Shahab Noori

2013: Pathophysiology of CNS injury, Simulation; **Speakers:** Istvan Seri, Shahab Noori

2014: Physiology and timing of cord clamping; **Speakers:** Stuart Hooper, Martin Kluckow

2015: PPHN Hemodynamics **Speakers:** Robin Steinhorn, Amish Jain/Luc Mertens

2016: The Pharmacokinetic rationale of PDA treatment **Speaker:** Bart Van Overmeire

2017: Fetal hemodynamics and brain development **Speaker:** Mike Seed

2018: Evolution of Hemodynamic Evaluation **Speakers:** Afif El-Khuffash & Koert de Waal

2019: The role of surgical ligation of the PDA **Speakers:** Dany Weisz & Carl Backes

2020: No Hemodynamics Club

2021: The forgotten right ventricle. **Speakers:** Regan Giesinger & Phil Levy

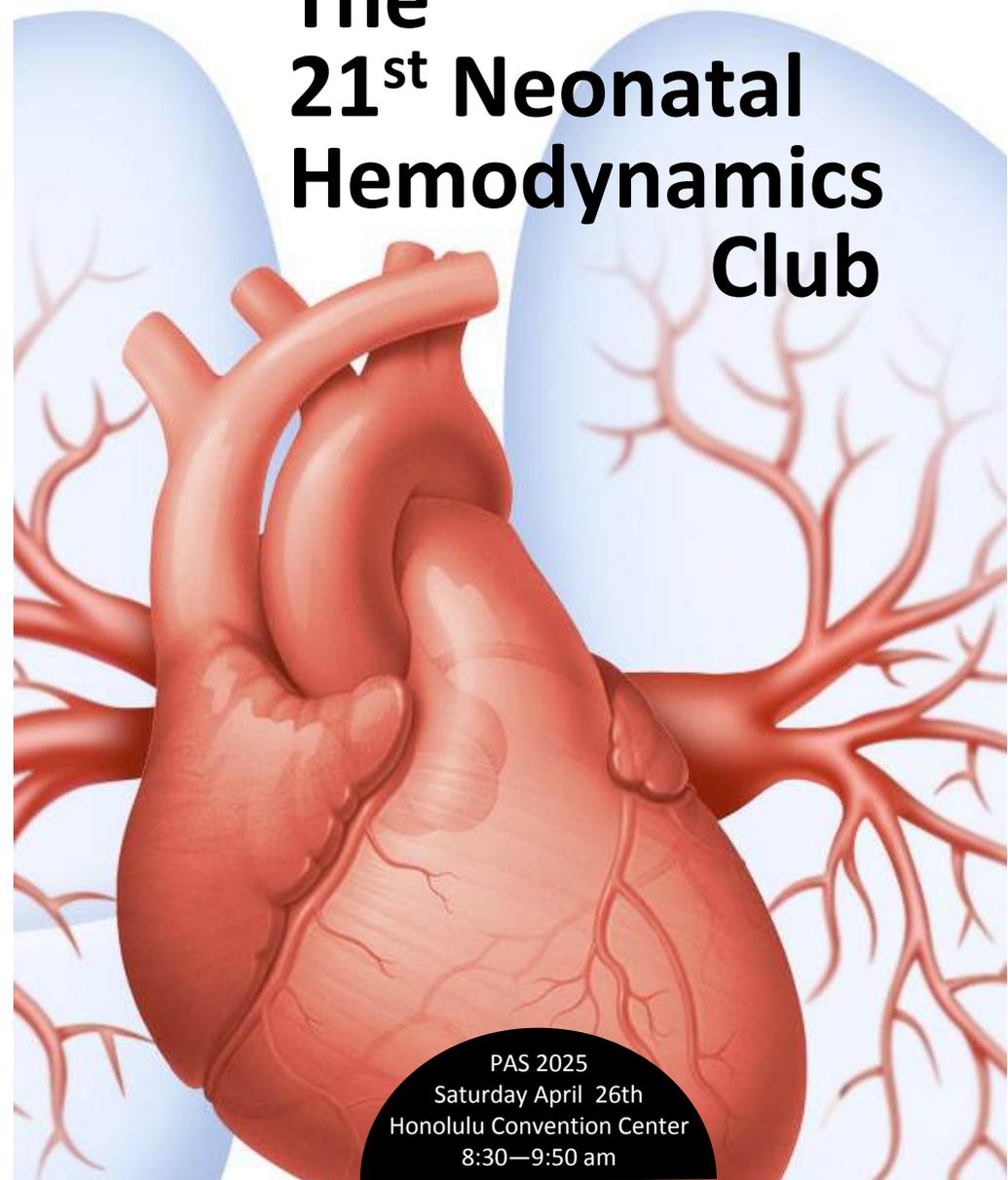
2022: Hemodynamic phenotypes in CDH. **Speakers:** Neil Patel & Shazia Bhombal

2023: Cord clamping – physiology & evidence. **Speakers:** Anup Katheria & Elizabeth Foglia

2024: Hemodynamics of Neonatal Sepsis. **Speakers:** Willem de Boode & Ashraf Kharrat



The 21st Neonatal Hemodynamics Club



PAS 2025
Saturday April 26th
Honolulu Convention Center
8:30—9:50 am

About the Club

The Neonatal Hemodynamics Club addresses clinically relevant topics in neonatal-perinatal medicine with a special focus on developmental cardiovascular physiology and neonatal hemodynamics. Since its inception in 2004 by Professor Istvan Seri, experts in this field have discussed clinically relevant concepts in developmental cardiovascular physiology, comprehensive methods of hemodynamic assessment including targeted neonatal echocardiography, and novel therapeutic insights / interventions across a broad range of neonatal topics from patent ductus arteriosus to transitional circulation disturbances. The topic for 2025 will explore the hemodynamic physiology in extreme preterm infants and targeted therapy of the Patent Ductus Arteriosus. Our first speaker will review the evidence on early targeted management of PDA and discuss pros and cons of this approach. Our second speaker will appraise the evidence for physiologically targeted therapies in different cardiovascular phenotypes. We will discuss the possible next steps to understand what is optimal management in these high risk hemodynamic states. There will be time set aside for audience questions and discussion to allow the audience to interact with our expert speakers.

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2025 Speakers



Dr Samir Gupta

Chief of Neonatology & Professor *Sidra Medicine, Qatar & Durham University UK*

Dr Gupta is a member of the European steering group of the Neonatologist performed echocardiography (NPE), and Chair of the Non-invasive cardiac output SIG of European Society for Pediatric Research (ESPR). He is Program Director of Neonatal Hemodynamic program in Qatar, and NHRC lead for Middle East and Asia. He is the founder and conference director of annual Neonatal Cardiology & Hemodynamics conference (NeoCard-UK) since 2010, and the chief investigator for the NIHR-HTA funded Baby-OSCAR trial on Early targeted treatment of PDA.



Dr Patrick McNamara

Chief of Neonatology, Professor of Pediatrics, *University of Iowa Health Care*

Dr. McNamara is the co chair of the Hemodynamics SIG at the American Society of Echocardiography. In 2018, he became Chief of Neonatology at the University of Iowa and established the largest Hemodynamic program in the US. His clinical and research interests include myocardial performance, the hemodynamically significant PDA, pulmonary hypertension and targeted neonatal echocardiography.



Dr. Audrey Hébert

Neonatologist and Assistant Professor at *CHU de Québec- University Laval*

Dr. Hébert completed her neonatal hemodynamics and targeted neonatal echocardiography training at BC Children's in Vancouver and Hospital for Sick Children in Toronto. She also earned a Master's degree in Health Sciences from the University of British Columbia. Dr. Hébert is the director of the neonatal hemodynamics program at CHU de Québec, where she leads clinical and research initiatives focused on advancing neonatal cardiovascular care and improving outcomes for critically ill newborns.

The Chairs



Dr. Martin Kluckow

Staff Neonatologist, Professor, *Royal North Shore Hospital & University of Sydney, Australia*

Dr. Kluckow, with his Sydney-based research group, have been involved with development of neonatal hemodynamics and point of care ultrasound for over 20 years. His research has centred around the physiology of the transitional circulation and he has particular interests in the PDA, hypotension, PPHN, the timing of cord clamping and ultrasound training.