

ISCTE – INSTITUTO UNIVERSITÁRIO DE LISBOA  
13 & 14 NEONATAL HEMODYNAMICS  
MARCH AND TARGETED NEONATAL  
2026 ECHOCARDIOGRAPHY  
LISBON FOR NEONATOLOGISTS  
- HOW TO IMPROVE PRACTICES AND STANDARDS -  
A TWO-DAY COURSE

*With the presence of*

**DR. PATRICK J. MCNAMARA**

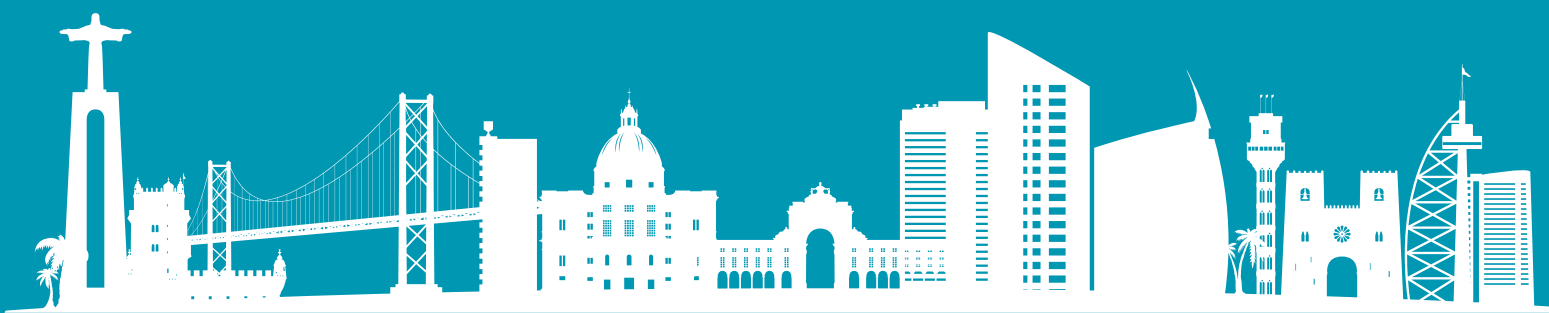


**DR. ADRIANNE RAHDE BISCHOFF**



Patrick McNamara graduated from Queens University Belfast in 1987, received his MRCPCH in Pediatrics in 1997 and Certificate of Completion of Specialist Training in Neonatal Medicine in 2002. He is currently the Director of the Division of Neonatology at the University of Iowa Stead Family Children's Hospital, Professor of Pediatrics and Internal Medicine, and the Regan Giesinger Professor of Neonatology at the University of Iowa. He is the current chair of the Pediatric Academic Society Neonatal Hemodynamics Advisory and Neonatal Hemodynamics (TnECHO) Special Interest Group at the American Society of Echocardiography. He also serves as the co-president of the Association of Academic Neonatology Division Directors. His clinical and research interests include myocardial performance in the settings of a hemodynamically significant ductus arteriosus, pulmonary hypertension and targeted neonatal echocardiography. He has published over 400 peer reviewed publications, chapters and other works.

Adrienne Bischoff Clinical Assistant Professor at the University of Iowa. She did her Neonatal-Perinatal Medicine training at the University of Toronto and completed her Neonatal Hemodynamics training at the University of Iowa. She is a member of the PanAmerican Hemodynamics Collaborative (PAHC) which promotes educational initiatives in the field of neonatal hemodynamics/TnECHO and cultivates multicenter clinical research and a council member of the Midwest Society for Pediatric Research (MWSPP). Her research interests focus on the physiology of post-transcatheter patent ductus arteriosus closure, mechanisms of blood pressure regulation in preterm infants and the use of cardiac MRI.



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MARCH 13

MORNING

**8:00 AM - 08:30 AM | REGISTRATION**

**08:30 AM -10:30 AM | INTRODUCTION TO NEONATAL HEMODYNAMICS**

Moderators: Edmundo Santos / Natália Noronha

08:30 AM | Evolution of Neonatal Hemodynamics: A Historical Perspective  
Patrick McNamara - Iowa, USA (*In-person*)

09:00 AM | Principles of Neonatal Cardiovascular Physiology  
Adrienne Rahde Bischoff - Iowa, USA (*In-person*)

09:30 AM | Inotropes and Vasopressors: The Art of Choosing the Best Drug Based on Cardiovascular Physiology  
Audrey Hebert - Québec, Canada (*Online*)

10:00 AM | Open Discussion

**10:20 AM - 10:40 AM | COFFEE BREAK**

**10:40 AM - 12:45 PM | ECHOCARDIOGRAPHY AND CARDIAC FUNCTION**

Moderators: Alberto Berenguer / João Sarmento

10:40 AM | Basic Heart Anatomy, Sequential Analysis, and Standard Echocardiographic Views  
José Diogo Martins - Lisbon, Portugal (*In-person*)

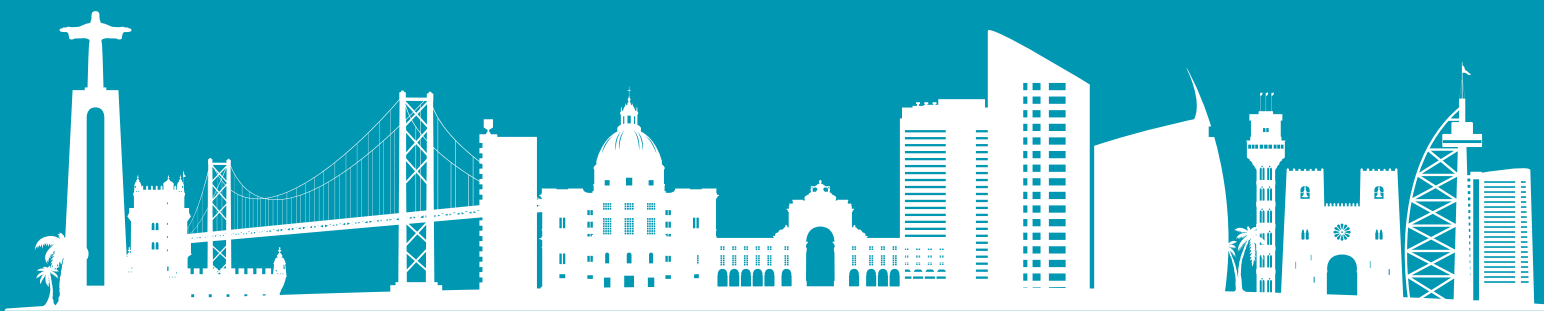
11:05 AM | Evaluation of Left and Right Ventricular Function  
Phil Levy - Boston, USA (*Online*)

11:35 AM | Diastolic Dysfunction: What Do We Know?  
Koert de Waal - Newcastle, Australia (*Online*)

12:05 PM | Cardiac POCUS and Targeted Neonatal Echocardiography: Boundaries and Indications  
Numra Aleem - Iowa, USA (*Online*)

12:30 PM | Open Discussion

**12:45 PM - 01:45 PM | LUNCH BREAK**



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AFTERNOON  
MARCH 13

**01:45 PM - 03:45 PM | PULMONARY HYPERTENSION**

Moderators: Pedro Garcia / Mónica Rebelo

01:45 PM | Acute Pulmonary Hypertension: Phenotypes for Management Precision  
Patrick McNamara - Iowa, USA (*In-person*)

02:15 PM | Bronchopulmonary Dysplasia and Chronic Pulmonary Hypertension:  
Screening and Phenotypes for Management Precision  
Amy Stanford - Iowa, USA (*Online*)

02:45 PM | Echocardiographic Evaluation of Acute and Chronic Pulmonary Hypertension  
Poorva Deshpande - Toronto, Canada (*Online*)

03:10 PM | Clinical Cases  
Trassanee Chatmethakul - Iowa, USA (*Online*)

03:25 PM | Open Discussion

**03:45 PM - 04:15 PM | COFFEE BREAK**

**04:15 PM - 05:45 PM | HEMODYNAMICS OF HYPOXIC-ISCHEMIC ENCEPHALOPATHY**

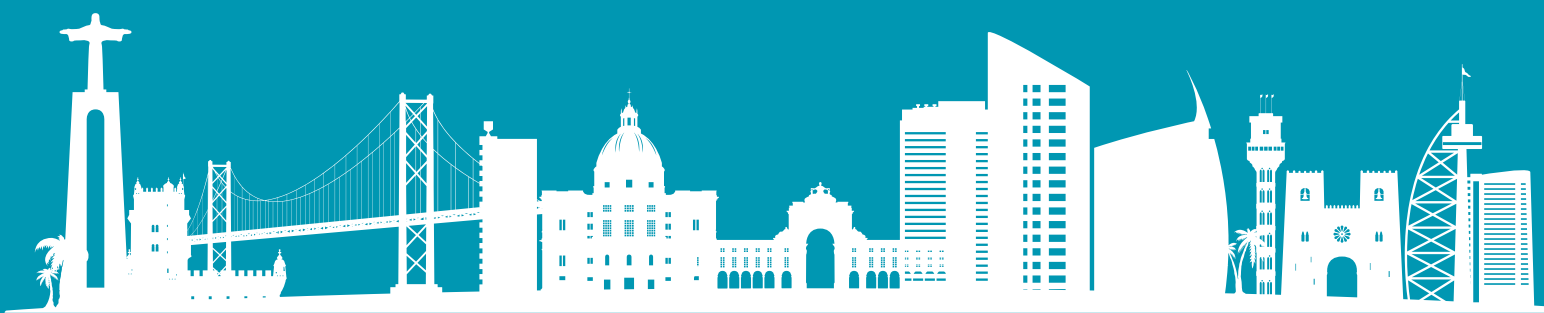
Moderators: Elisa Proença / Andreia Palma

04:15 PM | Impact of HIE and Therapeutic Hypothermia on Cardiopulmonary Performance  
Gabriel Altit - Montreal, Canada (*Online*)

04:45 PM | Diagnostic Approach and Management of Cardiac Dysfunction and Acute  
Pulmonary Hypertension in HIE Under Therapeutic Hypothermia  
Danielle Rios - Iowa, USA (*Online*)

05:15 PM | Clinical Cases  
Tyler King - Iowa, USA (*Online*)

05:30 PM | Open Discussion



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MORNING  
MARCH 14

**08:30 AM - 10:30 AM | PDA: UPDATES ON SCREENING, PHARMACOTHERAPY, AND DEFINITIVE CLOSURE**

Moderators: Paulo Soares / Petra Loureiro

08:30 AM | Enhanced Echocardiographic Assessment of PDA  
Adrienne Rahde Bischoff - Iowa, USA (*In-person*)

09:00 AM | Physiology-Based Approach to PDA and Therapeutic Options  
Souvik Mitra - Vancouver, Canada (*Online*)

09:30 AM | Approach to Interventional Closure of PDA and Post-Ligation Syndrome  
Adrienne Rahde Bischoff - Iowa, USA (*In-person*)

10:00 AM | Clinical Cases  
Numra Aleem - Iowa, USA (*Online*)

10:15 AM | Open Discussion

**10:35 AM - 11:00 AM | COFFEE BREAK**

**11:00 AM - 12:25 PM | TRANSITION AND THE VERY PRETERM BABY**

Moderators: Rui Castelo / Ana Luísa Costa

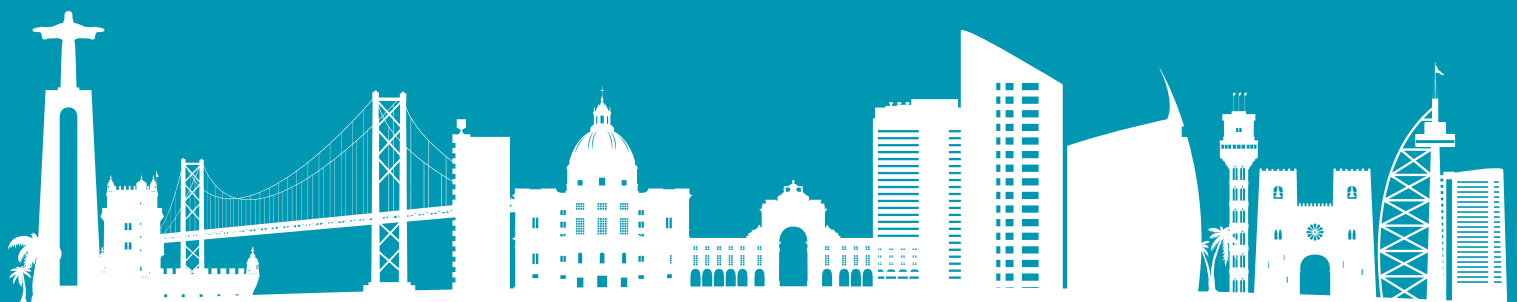
11:00 AM | Transitional Physiology in the Extremely Preterm Infant  
Rachael Hyland - Iowa, USA (*Online*)

11:25 AM | Echocardiographic Evaluation of Extremely Preterm Infants  
Danielle Rios - Iowa, USA (*Online*)

11:50 AM | Clinical Cases  
Rachael Hyland - Iowa, USA (*Online*)

12:05 PM | Open Discussion

**12:25 PM - 01:30 PM | LUNCH BREAK**



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AFTERNOON MARCH 14

**01:30 PM - 03:30 PM | SPECIAL HEMODYNAMIC CIRCUMSTANCES**

Moderators: Teresa Dionísio / Joana Miranda

01:30 PM | Neonatal Septic Shock and Hemodynamic Dysfunction  
Ashraf Kharrat - Toronto, Canada (*Online*)

02:00 PM | Hemodynamics of Vein of Galen Malformation  
Amy Stanford - Iowa, USA (*Online*)

02:30 PM | Hemodynamics of Congenital Diaphragmatic Hernia  
Jack Wren - Iowa, USA (*Online*)

03:00 PM | Lung Ultrasound and Cardiopulmonary Interactions: Integrating LUS in TnECHO Assessment  
Marilena Savoia - Udine, Italy (*Online*)

**03:30 PM - 04:00 PM | COFFEE BREAK**

**04:00 PM - 06:00 PM | NEONATOLOGISTS PERFORMING ECHOCARDIOGRAPHY AND THE NEED FOR STANDARDS**

Moderators: Anabela Salazar / Inês Mendes

04:00 PM | Neonatologists Performing Echocardiography – 20 Years of Experience in Telemedicine  
Rui Anjos - Lisbon, Portugal (*In-person*)

04:30 PM | Neonatologists Performing Echocardiography in Portuguese NICUs: Where Are We Now?  
Luísa Martins - Lisbon, Portugal (*In-person*)

04:55 PM | Neonatologists Performing Echocardiography: Defining Standards and Scope of Practice  
Patrick McNamara - Iowa, USA (*In-person*)

05:25 PM | Open Discussion

05:50 PM | Closing Remarks

