



## March 13

### Introduction to Neonatal Hemodynamic

Evolution of Neonatal Hemodynamics: A Historical Perspective - Patrick McNamara (*Iowa*)

Principles of Neonatal Cardiovascular Physiology - Adrienne Rahde Bischoff (*Iowa*)

Inotropes and Vasopressors: The Art of Choosing the Best Drug Based on Cardiovascular Physiology - Audrey Hebert (*Quebec*)

### Echocardiography and Cardiac Function

Basic Heart Anatomy, Sequential Analysis, and Standard Echocardiographic Views – TBD

Evaluation of Left and Right Ventricular Function - Phil Levy (*Boston*)

Diastolic Dysfunction: What Do We Know? - Koert de Waal (*Newcastle, Australia*)

Clinical Cases/Open Discussion - Jack Wren (*Iowa*)

### Pulmonary Hypertension

Acute Pulmonary Hypertension: Phenotypes for Management Precision - Patrick McNamara (*Iowa*)

Bronchopulmonary Dysplasia and Chronic Pulmonary Hypertension: Screening and Phenotypes for Management Precision - Amy Stanford (*Iowa*)

Echocardiographic Evaluation of Acute and Chronic Pulmonary Hypertension - Amish Jain (*Toronto*)

Clinical Cases / Open Discussion - Trassanee Chatmethakul (*Oklahoma*)

### Hemodynamics of Hypoxic-Ischemic Encephalopathy

Impact of HIE and Therapeutic Hypothermia on Cardiopulmonary Performance - Gabriel Altit (*Montreal*)

Diagnostic Approach and Management of Cardiac Dysfunction and Acute Pulmonary Hypertension in HIE Under Therapeutic Hypothermia - Danielle Rios (*Iowa*)

Clinical Cases / Open Discussion - Tyler King (*Iowa*)

## March 14

### PDA: Updates on Screening, Pharmacotherapy, and Definitive Closure

Enhanced Echocardiographic Assessment of PDA - Adrienne Rahde Bischoff (*Iowa*)

Physiology-Based Approach to PDA and Therapeutic Options - Aisling Smith (*Dublin*)

Approach to Interventional Closure of PDA and Post-Ligation Syndrome - Adrienne Rahde Bischoff (*Iowa*)

Clinical Cases / Open Discussion - Numra Aleem (*Iowa*)

### Transition and the Very Preterm Baby

Transitional Physiology in the Extremely Preterm Infant - Rachael Hyland (*Iowa*)

Echocardiographic Evaluation of Extremely Preterm Infants - Danielle Rios (*Iowa*)

Clinical cases and Open Discussion - Rachael Hyland (*Iowa*)

### Special Hemodynamic Circumstances

Neonatal Septic Shock and Hemodynamic Dysfunction - Ashraf Kharrat (*Toronto*)

Hemodynamics of Vein of Galen Malformation - Amy Stanford (*Iowa*)

Hemodynamics of Congenital Diaphragmatic - Hernia Jack Wren (*Iowa*)

Lung Ultrasound and Cardiopulmonary Interactions: Integrating LUS in TnECHO Assessment - Marilena Savoia (*Italy*)

### Neonatologists Performing Echocardiography and the Need for Standards

Neonatologists Performing Echocardiography – 20 Years of Experience in Telemedicine - Rui Anjos (*Portugal*)

Neonatologists Performing Echocardiography in Portuguese NICUs: Where Are We Now? - Luisa Martins (*Portugal*)

Neonatologists Performing Echocardiography and the Need for Standards: POCUS vs. TnECHO - Patrick McNamara (*Iowa*)