

NOVEMBER 3 2025		
SESSION 1 – FOUNDATIONS IN NEONATAL PHYSIOLOGY		
Session Moderators: Dr. Eugene Dempsey & Dr. Shiran Moore		
12:00-12:05 ET	Session introduction by moderators	
12:05-12:30 ET	Essential principles of cardiovascular physiology	Dr. Patrick McNamara
12:30-12:55 ET	Normal neonatal myocardium	Dr. Philip Levy
12:55-13:20 ET	Cardiopulmonary interactions	Dr. Dany Weisz
13:20-13:40 ET	Case based presentation ( <i>Cardiopulmonary Interactions</i> )	Dr. Leticia La Banda
13:40-14:00 ET	Question and answer period	
NOVEMBER 4 2025		
SESSION 2 – NEONATAL SHOCK		
Session Moderators: Dr. Danielle Rios & Dr. Michael Castaldo		
12:00-12:05 ET	Session introduction by moderators	
12:05-12:30 ET	Physiology of septic shock in neonates: Role of echocardiography	Dr. Ashraf Kharrat
12:30-12:55 ET	Approach to assessing blood pressure and choosing the correct cardiotropic agent	Dr. Koert de Waal
12:55-13:20 ET	Assessment of organ oxygenation before and during NEC/sepsis	Dr. Elisabeth Kooi
13:20-13:40 ET	Case Based Presentation ( <i>Dopamine vs. Norepinephrine use</i> )	Dr. Sagee Nissimov
13:40-14:00 ET	Question and answer period	
NOVEMBER 5 2025		
SESSION 3 – CHALLENGES IN NEONATAL CARE		
Session Moderators: Dr. Gabriel Altit & Dr. Maria Carmen Bravo		
12:00-12:05 ET	Session introduction by moderators	
12:05-12:30 ET	Pulmonary hypertension at the limits of viability	Ms. Michelle Baczynski
12:30-12:55 ET	Hemodynamic management of congenital diaphragmatic hernia	Dr. Stephanie Boyd
12:55-13:20 ET	Hemodynamics of Vein of Galen Malformation	Dr. Neil Patel
13:20-13:40 ET	Vein of Galen: Interventions	Dr. Darren Orbach
13:40-14:00 ET	Question and answer period	
NOVEMBER 6 2025		
SESSION 4 – THE PATENT DUCTUS ARTERIOSUS		
Session Moderators: Dr. Souvik Mitra & Cheryl Battersby		
12:00-12:05 ET	Session introduction by moderators	
12:05-12:30 ET	When to screen: Hemodynamics vs. symptoms-based approaches	Dr. Aisling Smith
12:30-12:55 ET	How many courses is too many courses of pharmacotherapy?	<i>[to be confirmed]</i>
12:55-13:20 ET	When to consider device closure of the PDA	Dr. Adrienne Bischoff
13:20-13:40 ET	Case based presentation ( <i>Flipping Physiologies</i> )	Dr. Rhucha Joshi
13:40-14:00 ET	Question and answer period	

**Course Objectives** - At the end of this course, participants will be able to:

- 1) Review key principles of cardiopulmonary physiology as they pertain to the fetus and newborn circulation
- 2) Understand the physiological changes that occur during the transition to extrauterine life and clinical manifestations of interrupted/ altered transition
- 3) Review the physiological effects of cardiopulmonary therapeutic agents, their potential benefits and side effects, and how they may vary based on underlying pathophysiology
- 4) Learn pathophysiological alterations that occur in common disease states affecting the term and preterm infants and their physiology and evidence-based management algorithms