

NOVEMBER 11 2024		
<b>SESSION 1 – FOUNDATIONS IN NEONATAL PHYSIOLOGY</b>		
Session Moderators: Dr. Marilena Savoia & Dr. Jan Miletin		
18:00-18:05 CET	Session introduction by moderators	
18:05-18:30 CET	Essential principles of cardiovascular physiology	Dr. Patrick McNamara
18:30-18:55 CET	Normal neonatal myocardium	Dr. Philip Levy
18:55-19:20 CET	Cardiopulmonary interactions	Dr. Dany Weisz
19:20-19:40 CET	Case based presentation	Dr. Áine Fox
19:40-20:00 CET	<b>Question and answer period</b>	
NOVEMBER 12 2024		
<b>SESSION 2 – HEMODYNAMICS OF TRANSITIONAL CARE OF PRETERM INFANTS</b>		
Session Moderators: Dr. Mayka Bravo & Dr. Gene Dempsey		
18:00-18:05 CET	Session introduction by moderators	
18:05-18:30 CET	PDA: Updates on screening, pharmacotherapy, and definitive closure	Dr. Afif El Khuffash
18:30-18:55 CET	Preterm acute pulmonary hypertension and the role of iNO	Dr. Danielle Rios
18:55-19:20 CET	Congenital heart disease in preterm infants	Dr. Orla Franklin
19:20-19:40 CET	Case Based Presentation	Dr. Rachel Mullaly
19:40-20:00 CET	<b>Question and answer period</b>	
NOVEMBER 13 2024		
<b>SESSION 3 – HEMODYNAMICS OF DEVELOPMENTAL LUNG DISEASES</b>		
Session Moderators: Dr. Samir Gupta & Dr. Tim Hundscheid		
18:00-18:05 CET	Session introduction by moderators	
18:05-18:30 CET	Hemodynamics of Congenital Diaphragmatic hernia	Dr. Neil Patel
18:30-18:55 CET	Bronchopulmonary dysplasia and pulmonary hypertension	Dr. Nim Subhedar
18:55-19:20 CET	Cardiopulmonary performance in Down Syndrome	Dr. Aisling Smith
19:20-19:40 CET	Case presentation	Dr. Macarena Garcia
19:40-20:00 CET	<b>Question and answer period</b>	
NOVEMBER 14 2024		
<b>SESSION 4 – HEMODYNAMICS OF HYPOXIC-ISCHEMIC ENCEPHALOPATHY</b>		
Session Moderators: Dr. Kasper Kyng & Dr. Elisabeth Kooi		
18:00-18:05 CET	Session introduction by moderators	
18:05-18:30 CET	Impact of therapeutic hypothermia on cardiopulmonary performance	Dr. Eirik Nestaas
18:30-18:55 CET	Cardiopulmonary assessment and diagnostic approach	Dr. Gabriel Altit
18:55-19:20 CET	Management of cardiac dysfunction and acute PH	Dr. Amish Jain
19:20-19:40 CET	Case based presentation	Dr. Giulia Res
19:40-20:00 CET	<b>Question and answer period</b>	

*Times are in Central European Time (CET)*

**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