

Times are in Central European Time (CET): 18:00-20:00 CET = 12:00-14:00 Eastern Time

| NOVEMBER 11 2024 | | |
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| SESSION 1 – FOUNDATIONS IN NEONATAL PHYSIOLOGY | | |
| 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 | Question and answer period | |
| NOVEMBER 12 2024 | | |
| SESSION 2 – HEMODYNAMICS OF TRANSITIONAL CARE OF PRETERM INFANTS | | |
| 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 | Question and answer period | |
| NOVEMBER 13 2024 | | |
| SESSION 3 – HEMODYNAMICS OF DEVELOPMENTAL LUNG DISEASES | | |
| 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 | Question and answer period | |
| NOVEMBER 14 2024 | | |
| SESSION 4 – HEMODYNAMICS OF HYPOXIC-ISCHEMIC ENCEPHALOPATHY | | |
| 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 | 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
- 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