



14th Annual Neonatal & Pediatric ECLS Educational Conference

Oct. 4 to 6, 2023

10:30 a.m. to 4:45 p.m. EST

UPMC Children's Hospital of Pittsburgh
John G. Rangos Sr. Research Center

Welcome

Welcome to the 14th Annual Neonatal & Pediatric ECLS Educational Conference at UPMC Children's Hospital of Pittsburgh. We dedicate this conference to providing educational opportunities for clinicians caring for children requiring Extracorporeal Life Support (ECLS) therapy including extracorporeal membrane oxygenation (ECMO) and ventricular assist device (VAD) support.

We are excited to have in-person attendance again this year in addition to the virtual platform option. This hybrid approach allows us to continue to provide one-of-a-kind educational opportunities through interactive high-fidelity simulation activities, interesting case discussions, and live "hands-on" training demonstrations. The virtual component provides increased opportunity to reach those providers that are unable to attend in person.

Our goal is to provide clinicians of all levels a chance to enhance their knowledge of managing pediatric patients requiring ECLS. We are delighted to have you join us and hope that you enjoy this engaging and comprehensive program.

Overview

The purpose of this course is to provide a didactic and "hands-on" based education in an interactive multidisciplinary format for health care providers who care for patients receiving extracorporeal support. Throughout this course, our faculty and presenters will discuss:

- Strategies for physical therapy on ECMO
- ECMO considerations per patient population
- The benefits of having a multidisciplinary ECLS team
- Supportive care and resources for ECMO patients and families
- Mechanical circulatory support for congenital heart disease
- Appropriate inclusion/exclusion criteria for ECMO for pediatric out of hospital cardiac arrest

Target Audience

This ECLS educational conference is intended for ECMO Specialists, Neonatologists, Pediatric and Adult Critical Care Physicians, Pediatric and Adult Surgeons, Perfusionists, Advanced Practice Nurses, Physician Assistants, Registered Nurses, Respiratory Therapists, and any other professionals interested in neonatal and pediatric ECLS.

Program Agenda

Wednesday, Oct. 4, 2023

- 10:30 a.m. Welcome**
Melita Viegas, MD
- 10:35 a.m. CHP ECMO Program Structure and Methodology**
Marit Aspenleiter, BS, CCP
- 11 a.m. to 12:30 p.m. ECMO Management per Patient Population**
- 11 a.m. NICU**
Burhan Mahmood, MD, FAAP
- 11:25 a.m. Bronchopulmonary Dysplasia: Role of ECMO**
John Ibrahim, MD, FAAP
- 11:40 a.m. CICU**
Joan Sanchez de Toledo, MD, PhD
- 12:05 p.m. PICU**
Nahmah Kim-Campbell, MD, MS
- 12:30 p.m. Coming of Age – Adult ECMO for Pediatric Patients**
Timothy Kaselitz, MD, MPH
- 12:50 p.m. Case Report: Hybrid ECMO Strategies in a Pediatric Patient with Influenza A Infection**
Marit Aspenleiter, BS, CCP
- 1 p.m. Lunch**
- 1:30 p.m. ECMO Considerations for Congenital Heart Disease**
Melita Viegas, MD
- 2 p.m. Pulmonary Blood Flow on ECMO**
Mario Castro Medina, MD
- 2:15 p.m. ECMO for the Failing Fontan**
Brian Feingold, MD, MS, FAHA
- 2:45 p.m. ECMO Simulation – Creating a Model**
David Palmer, Ed. D, CCP

- 3:15 p.m.** **Does this Look Right?: Cannula Positioning for ECMO**
Laura Olivieri, MD, FAHA, FSCMR
David Palmer, Ed. D, CCP
Amanda Brennan, RDCS, (AE, PE)
- 3:50 p.m.** **The Use of Chest CT Angiogram in Pediatric ECMO Patients**
Tarek Alsaied, MD
- 4 p.m.** **Live Simulation and Discussion: Cervical and Central ECMO Cannulation – Surgical Sam**
Melita Viegas, MD, and David Palmer, Ed. D, CCP
- 4:45 p.m.** **Adjournment**

Thursday, Oct. 5, 2023

- 10:30 a.m.** **Welcome**
- 10:35 a.m.** **Renal Therapy on ECMO – Which Therapy to Choose**
Dana Fuhrman, DO, MS
- 11 a.m.** **Is ECMO on the Menu – Ordering ECMO for High-Risk Procedures**
Kelly Austin, MD, MS, FACS, FAAP
- 11:25 a.m.** **Surgery on ECMO**
Paul Waltz, MD
- 11:45 a.m.** **Patient Support – Death with Dignity**
Sarah Rubin, MD, MSCI
Taylor Huntington, MD
Samantha Brynien, CCRN, CES-P, E-AEC
- 12:05 p.m.** **Interdisciplinary Psychosocial Support**
Panelists:
Maureen Heneghan, MS, CCLS
Brittany Meyer, MM, MT-BC, NICU-MT, NMT
Laura Nolen, BA, CCLS
Katie O'Connor, MA, ATR-BC, LPC, CCLS
Jonathan Rabatin, MSW, LCSW
- 12:25 p.m.** **Family Support**
Carol May, RN, MSN, MBA, CHPN
Jonathan Rabatin, MSW, LCSW

12:45 p.m. Provider Support – Unpacking the Trauma – Where Should I Put This Box?
Carol May, RN, MSN, MBA, CHPN

1:05 p.m. Lunch

ECMO Transport

1:45 p.m. ECMO Transport
Idris Evans, MD, MSc

2:15 p.m. ECMO Transport from Every Perspective – It's a Team Sport
Allan Joseph, MD, MPH

2:35 p.m. Transport – Panel Discussion
Panelists:
Idris Evans, MD, MSc
Allan Joseph, MD, MPH
Dan Ross, BS, CCP
Stephen Stefanko, RRT/NPS, CNPT

2:55 p.m. PT on ECMO? Is it Safe?
Amber Palmer, MS, CCP

3:15 p.m. Rehabilitation and Physical Therapy on ECMO: Pediatric Challenges
Caitlin Jenkins, DPT, and Ryan Drabik, OTR/L

3:45 p.m. The ECMO Parade: A Multidisciplinary Effort to Safely Mobilize Pediatric ECMO Patients
Live Simulation
Megan Coyne, BS-CRT, E-AEC, CES-P
Jennifer Zyzanski, RRT
Dan Ross, BS, CCP
Amber Palmer, MS, CCP

4:15 p.m. Survivor Story
Samantha Brynien, CCRN, CES-P, E-AEC, and Kelley Gavel, MS, NCC, CCLS

4:45 p.m. Adjournment

Friday, Oct. 6, 2023

10:30 a.m. Welcome

Interactive Fireside Chats

- 10:35 a.m. NICU**
Burhan Mahmood, MD, FAAP
John Ibrahim, MD, FAAP
Darren Bodkin, MD
Jessica O'Neal, MD
Anusha Chinthaparthi, MD
- 11 a.m. PICU**
Nahmah Kim-Campbell, MD, MS, and Timothy Kaselitz, MD, MPH
- 11:30 a.m. CICU**
Joan Sanchez de Toledo, MD, PhD, and Matt Bochkoris, MD
- 12 p.m. Anticoagulation – Can You Handle the Truth? An Internal Look at Our Center Experience with Bivalirudin for Pediatric ECMO Anticoagulation**
Moderators: *Marit Aspenleiter, BS, CCP, and Holly Hollenbaugh-Fogle, RN, BSN, CCRN*
Expert Panel:
Heidi Dalton, MD, MCCM – Inova Fairfax Medical Campus
Timothy Kaselitz, MD, MPH – UPMC Presbyterian
Ravi Thiagarajan, MD, MPH – Boston Children's Hospital
Frederico Xavier, MD, MS – UPMC Children's Hospital of Pittsburgh
- 1 p.m. Lunch**
- 1:30 p.m. House Arrest – In Hospital Cardiac Arrest and ECMO**
Rod Ghassemzadeh, MD
- 2 p.m. Can I Be Included? Inclusion Criteria for ECMO for Pediatric Out of Hospital Cardiac Arrest**
Rajesh Aneja, MD
- 2:30 p.m. Candidacy versus Cannulas? The Ethics of ECMO Candidacy Decisions**
Katie Moynihan, MD – Boston Children's Hospital
- 3 p.m. ECPR Case Report**
Matt Bochkoris, MD
- 3:30 p.m. Implementing the LUCAS Device in Your Pediatric ECLS Program**
Chris Horvat, MD, MHA
- 4 p.m. Live Simulation and Discussion: ECMO Cannulation with LUCAS Device**
Melita Viegas, MD
Luciana da Fonseca da Silva, MD, PhD
David Palmer, Ed. D, CCP
Thomas Scollon
- 4:45 p.m. Adjournment**



Faculty:

Tarek Alsaied, MD

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Continuing Medical Education Credit

Accreditation and Designation Statement

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 17 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

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All of the relevant financial relationships for the individuals listed below have been mitigated:

Heidi Dalton, MD, receives grant/research support from DOD and is a consultant for Innovative ECMO Concepts, Hemocue, Entegriion, Medtronic, and Instrumentation Labs. Dr. Dalton is the President and CEO of Heidi J. Dalton, MD Medical Consulting and is the CEO and Founder of ECLS Virtual Advisors.

Ravi Thiagarajan, MD, receives grant/research support from the U.S. Department of Defense and was a speaker at CE Speakers Bureau for the Society of Critical Care Medicine and the Extracorporeal Life Support Organization.

Katie Moynihan, MD, was a consultant for Edwards Life Sciences.

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