**15th Annual Neonatal & Pediatric ECLS Educational Conference**

Oct. 10 to 12, 2024

UPMC Children's Hospital of Pittsburgh

John G. Rangos Sr. Research Center

Welcome

Welcome to the 15th 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:

* Brain Death Testing on ECMO
* DCD & ECMO
* ECMO Algorithms
* ECMO Beyond the Cannulas
* ECMO Use in Trauma
* Ethics and ECMO
* Fireside Chats with Interactive Case Scenarios
* Using 3D Models to Demonstrate Proper Cannula Placement

Target Audience

The conference is intended for ECMO specialists, neonatologists, pediatric and adult critical care physicians, pediatric and adult surgeons, perfusionists, advanced practice providers, physician assistants, registered nurses, respiratory therapists, and any other professionals interested in neonatal and pediatric ECLS.

Program Agenda

Thursday, Oct. 10, 2024

**10:30 a.m. Welcome**

*Melita Viegas, MD*

**10:35 a.m. ECMO at UPMC Children’s Hospital of Pittsburgh**

*Marit Aspenleiter, BS, CCP, LP*

**Unit Specific Approach to Pediatric ECMO**

**10:55 a.m. NICU – The Nitty Gritty of Neonatal ECMO – A Gentle Approach**

*Burhan Mahmood, MD, FAAP*

**11:15 a.m. PICU**

*Nahmah Kim-Campbell, MD, MS*

**11:35 a.m. CICU**

*Joan Sanchez de Toledo, MD, PhD*

**11:55 a.m. VV- ECMO for the Pediatric Population**

*Mario Castro-Medina, MD*

**12:15 p.m. Anticoagulation – A CHP Story**

*Molly Lewen, MD*

**12:30 p.m. Using 3D Models to Demonstrate Proper Cannula Placement**

*Amanda Brennan, RDCS, AE, PE*

*Laura Olivieri, MD, FAHA, FSCMR*

*David Palmer, EdD, FPP, CCP, LP*

**12:45 p.m. Lunch**

**Simple, Streamlined & Safe**

**1:15 p.m. ECMO – What’s the Consensus?**

*Ryan Barbaro, MD*

*University of Michigan*

**1:30 p.m. ECMO Beyond the Cannulas**

*Marit Aspenleiter, BS, CCP, LP*

**1:45 p.m. ECMO Algorithms**

*Tim Kaselitz, MD, MPH*

**Ethics and ECMO**

**2:15 p.m. Cannulas vs. Candidacy**

*Katie Moynihan, MBBS*

*Boston Children’s Hospital*

**2:30 p.m. The Ethics and ECMO**

*Tal Levin-Decanini, PhD, DNP, RN, CPNP-PC*

*Sheila Hahner, MSN, RN, CPN*

**3 p.m. Panel Discussion – The ECMO Code of Conduct**

*Moderator: Sheila Hahner, MSN, RN, CPN*

*Holly Hollenbaugh-Fogle, RN, BSN, CCRN*

*Jenna Harper, BS, BSN, RN, CCRN*

*Gwen Harcar, LCSW*

*Kate Kernan, MD*

*Tal Levin-Decanini, PhD, DNP, RN, CPNP-PC*

*Kristin Nicolia, RN, BSN, CCRN*

*Carol May, RN, MSN, MBA, CHPN*

*Aleksandra Olszewski, MD, MA*

*Dan Ross, BS, CCP, LP*

**3:30 p.m. Break**

**In Other News**

**3:45 p.m. Going for Platinum**

**Achieving and Maintaining ELSO Center of Excellence – Platinum Status**

*Moderator:**Marit Aspenleiter, BS, CCP, LP*

*Michael Paul Anselmi, CCP, LP*

*West Virginia University*

*Heather Brady, RN, CCRN*

*Children’s National Hospital*

*Steve Robinson, BSN, RN, MBA, MSF*

*University of Michigan*

**4 p.m. ECMO Use in Trauma**

*Kelly Austin, MD, MS, FACS, FAAP*

**4:15 p.m. Brain Death Testing on ECMO**

*Nahmah Kim-Campbell, MD, MS*

**4:30 p.m. DCD & ECMO – Considerations for Pediatric Patients**

*Amber Palmer, EdD, CCP, LP*

**5 p.m. DCD Simulation**

*David Palmer, EdD, FFP, CCP, LP*

**5:30 p.m.****Adjourn**

Friday, Oct. 11, 2024

**10:30 a.m. Welcome**

**10:35 a.m. ECPR in the Pediatric Population**

*Melita Viegas, MD*

**11 a.m. The Use of CT Angio for Pediatric ECMO Patients**

*Tarek Alsaied, MD*

**11:15 a.m. Case Report: Elective ECMO Cannulation for Management of Tachyarrhythmia Induced Cardiomyopathy**

*Matthew Bochkoris, MD*

**11:30 a.m. Physical Therapy on ECMO: Is it Safe?**

*Amber Palmer, EdD, CCP, LP*

11:45 a.m. Once Upon a Time in Pittsburgh…The Story of ECMO at CHP

*Harvey Borovetz, PhD*

**12:15 pm. Palliative Care for ECMO Patients**

*Carol May, RN, MSN, MBA, CHPN*

12:30 p.m. It’s Part of the Job – Raising the Next Generation of Health Care Providers

*Carol May, RN, MSN, MBA, CHPN*

1 p.m. Interdisciplinary Psychosocial Support for ECMO Patients and Families

*Brittney Meyer, MM, MT-BC, NICU-MT, NMT*

*Lauryn Rozum, MS, CCLS*

*Nicole Steele, MS, MT-BC, NICU-MT*

1:15 p.m. Lunch

Family Stories

1:45 p.m. Scott Maurer, MD

2:15 p.m. Break

Fireside Chats

2:45 p.m. NICU

*Burhan Mahmood, MD, FAAP*

*John Ibrahim, MD, FAAP*

*Adriana Phillips, MD*

3:15 p.m. PICU

*Tim Kaselitz, MD, MPH*

*Nahmah Kim-Campbell, MD, MS*

3:45 p.m. CICU

*Matthew Bochkoris, MD*

*Rod Ghassemzadeh, MD*

*Molly Lewen, MD*

*Joan Sanchez De Toledo, MD, PhD*

*Nora Sherry, MD*

4:15 p.m. ECMO Specialists

*Dan Ross, BS, CCP, LP*

*Curtis Shelley, MEd, RRT-NPS, CED*

Saturday, Oct. 12, 2024

**ECMO Algorithms – Recipes for Success**

**8 a.m. Welcome**

*Marit Aspenleiter, BS, CCP, LP*

*Melita Viegas, MD*

**8:05 a.m. The CHP Method**

* + - **The Circuit**
    - **The Cannulas**
    - **The Hardware**
    - **The Knobs**
    - **The Anticoagulation**

*CHP ECMO and Perfusion Teams*

* + - *Marit Aspenleiter, BS, CCP, LP*
    - *Megan Coyne, BS-CRT, E-AEC, CES-P*
    - *Amber Palmer, EdD, CCP, LP*
    - *Dan Ross, BS, CCP, LP*
    - *Curtis Shelley, MEd, RRT-NPS, CED*

**8:35 a.m. How to Approach an ECMO Patient**

**Tip to Tip Circuit Check**

**DOA-CPR-HIT**

*David Palmer, EdD, FPP, CCP, LP*

**9:05 a.m. ECMO Complications and ECMO Algorithms**

**Non-Emergent ECMO Complications**

**ECMO Emergencies**

*Tim Kaselitz, MD, MPH*

*Burhan Mahmood, MD, FAAP*

**10 a.m. Intro to Simulation**

*Tim Kaselitz, MD, MPH*

**10:10 a.m. Clamps, Connections and Air Removal**

*CHP ECMO and Perfusion Teams*

**10:30 a.m. Let’s Build a Pump!!**

* + - **Pump Building**
    - **Clamping**
    - **Connecting**
    - **Push/Pulling**

*CHP ECMO and Perfusion Teams*

**11:30 a.m. Lunch**

**Ready, Set, Simulation!!**

**12:30 p.m. Simulation Sessions**

* + - **Drainage Insufficiency**
    - **Pump Failure**
    - **Circuit Air Embolism**
    - **Gas Failure**
    - **Membrane Lung Failure**
    - **Excessive Positive Pressure (Drainage Insufficiency)**
    - **Accidental Decannulation**

*Marit Aspenleiter, BS, CCP, LP*

*Megan Coyne, BS-CRT, E-WEC, CES-P*

*Tyler Eadie, MS, CCP, LP*

*John Ibrahim, MD, FAAP*

*Tim Kaselitz, MD, MPH*

*Burhan Mahmood, MD, FAAP*

*Amber Palmer, EdD, CCP, LP*

*David Palmer, EdD, FP, CCP, LP*

*Dan Ross, BS, CCP, LP*

*Curtis Shelley, MEd, RRT-NPS, CED*

**5 p.m. Adjournment**

Course Directors:

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Lead Perfusionist, ECMO

UPMC Children’s Hospital of Pittsburgh

**David Palmer, EdD, FPP, CCP, LP**

Director, Perfusion, ECMO

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**Melita Viegas, MD**

Assistant Professor of Cardiothoracic Surgery

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University of Michigan

**Harvey Borovetz, PhD**

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Creative and Expressive Arts Therapist III

Music Therapy Internship Director

UPMC Children’s Hospital of Pittsburgh

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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.

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Other health care professionals: 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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