



UPMC Procirca Adult ECLS Training Course November 6 - 9, 2019

Cambria Suites Hotel – Pittsburgh Downtown
1320 Centre Avenue, Pittsburgh, PA, 15219

Program Overview:

The UPMC Procirca Adult ECLS Training Course is a 3.5-day course designed for health care professionals interested in a foundational education in the care of the adult ECLS patient. Course content includes lecture on topics ranging from understanding the components of the ECLS circuit, patient selection, cannulation strategies, management of various ECLS patient groups to weaning and decannulation. Panel discussions with ECLS experts from UPMC will allow for exploration of topics including complex patient management as well as the more practical concerns related to creating and maintaining a successful ECLS program. Lecture will be supported with 12 hours of simulation-based learning, including ECLS circuit basics, a high fidelity ECLS cannulation simulation, handling ECLS emergencies, and high-fidelity case simulation scenarios to help develop patient management and troubleshooting skills. Hands on time with multiple ECLS systems will be available.

This course has been designed to follow the ELSO Guidelines for Training and Continuing Education for adult ECMO Specialists.

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

Physicians

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 24.5 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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.

Perfusionists: This course has been approved by the American Board of Cardiovascular Perfusion for **29.2** Category I CEUs.

Course Objectives:

Upon completion of the course, learners should be able to:

- Understand basic principles of ECLS
- Identify indications and contraindications for ECLS support in the adult patient
- Have a foundational understanding of the function of the components of the ECLS circuit
- Understand concerns of managing patients on ECLS
- Describe complications that may occur while on ECLS support
- Understand the cannulation, weaning and decannulation of the ECLS patient
- Respond to the most common ECLS emergencies
- Demonstrate ECLS knowledge in high fidelity simulation scenarios

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC / University of Pittsburgh Medical Center or Affiliates and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgment when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

Course Medical Director:

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Course Co-Director(s):

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Stephen Winowich

President, UPMC Procirca

Faculty:

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Robert Dyga RN, CCP

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Exhibitors:

Tandem Life | LivaNova

Abbott

Medtronic

Course Agenda

Day One: Wednesday November 6, 2019

- 0700 - 0800 Registration and Breakfast
- 0800 - 0830 Welcome and Overview of Course
Michael Anselmi CCP
- 0830 - 0900 Physiology of ECLS
Brian Rosborough MD
- 0900 - 0930 Indications/Contraindications for Adult ECLS, Patient Selection Criteria
Penny Sappington MD
- 0930 - 0945 BREAK
- 09:45 - 1015 Management of the Cardiogenic Shock Patient
Christopher Sciortino MD
- 1015 - 1100 Cannulation
Pablo Sanchez MD
- 1100 - 1200 LUNCH
- 1200 - 1300 Management of the Respiratory Failure Patient
Penny Sappington MD
- 1300 - 1330 Principles of ECLS circuit, Components and Design
Brandon D'Aloiso CCP
- 1330 - 1345 BREAK
- Hands on Learning: ECLS Circuit and Cannulation Basics: Visit 4 stations for 45 min each**
- 1345 - 1430 **Station 1: Centrimag**
Wendy James CCP
- 1430 - 1515 **Station 2: CardioHelp**
Danielle Freeman CCP
- 1515 - 1525 BREAK
- 1525 - 1610 **Station 3: Basic Cannulation Workshop**
Penny Sappington MD, Brandon D'Aloiso CCP, Michael Anselmi CCP
- 1610 – 1655 **Station 4: Rotaflow**
Ryan Dzadony CCP
- 1700 **ADJOURNMENT DAY ONE**

Day Two: Thursday November 7, 2019

0700 - 0800	Breakfast
0800 - 0845	Anticoagulation <i>Penny Sappington MD</i>
0845 - 0915	Case Study <i>Ryan Rivosecchi PharmD</i>
0915 - 0945	Daily Management of the ECLS Circuit by the ECLS Specialist <i>Brandon D'Aloiso CCP</i>
0945 - 1000	BREAK
1000 - 1030	Daily Patient Management of the ECLS Patient by the Bedside RN <i>Jenifer Rabuck RN, BSN</i>
1030 - 1100	Transport on ECLS <i>David Palmer EdD, CCP</i>
1100 - 1115	Intro to Simulation <i>Michael Anselmi CCP</i>
1115 - 1215	LUNCH

Hands on Learning: Visit each of the 4 stations for 60 min each.

1215 - 1315	Station 1: Circuit Checks and Daily Maintenance <i>Danielle Freeman CCP, Megan Bayley RN, BSN</i>
1315 - 1415	Station 2: Pressures 101/CRRT <i>Peter Arlia CCP, Jenifer Rabuck RN, BSN</i>
1415 - 1430	BREAK
1430 - 1530	Station 3: Cannulation and Initiation of ECLS <i>Penny Sappington MD, Brandon D'Aloiso CCP, Michael P. Anselmi CCP</i>
1530 - 1630	Station 4: Mechanical Circulatory Support - Temporary VADS <i>Oriana Hunter, MD, PhD</i>
1630	ADJOURNMENT DAY TWO

Day Three: Friday November 8, 2019

0700 - 0800	Breakfast
0800 - 0830	Ethical Concerns <i>Richard Weinberg MD</i>
0830 - 0900	Mechanical and Medical Emergencies: Troubleshooting on ECLS <i>Peter Arlia CCP, LP</i>
0900 - 0935	ECLS Outcomes <i>Jane Guttendorf DNP</i>
0935 – 0945	BREAK
0945 - 1030	Hybrid ECLS <i>Penny Sappington MD</i>
1030 - 1100	Financial Impact of ECLS <i>Robert Dyga CCP Emeritus</i>
1100 - 1200	LUNCH

High Fidelity Simulation Sessions – Visit each of the 4 stations for 60 min each.

1200 - 1300	Station 1: Case Simulation 1 – Oxygenator Failure/Changeout <i>Danielle Freeman CCP, Ryan Dzadony CCP</i>
1300 - 1400	Station 2: Case Simulation 2 – Air Entrainment /Circuit Changeout <i>Melissa Grayson CCP, Wendy James CCP</i>
1400 - 1415	BREAK
1415 - 1515	Station 3: Case Simulation 3 – Hybrid ECLS <i>Penny Sappington MD, Brandon D’Aloiso CCP, Michael Anselmi CCP</i>
1515– 1615	Station 4: Mechanical Circulatory Support - Durable VADS <i>Oriana Hunter MD, PhD</i>
1615	ADJOURNMENT DAY THREE
1700 – 1900	Vendor Reception

Day Four: Saturday November 9, 2019

0700 - 0800	Breakfast
0800 - 0830	Rehabilitation on ECLS <i>Melissa Grayson CCP</i>
0830 – 0900	Case Report <i>Wendy James CCP</i>
0900– 0930	ECLS Program Structure and QI <i>Melissa Grayson CCP</i>
0930 – 1000	Case Report <i>Daniel Rowan, MD</i>

High Fidelity Simulation Sessions – Visit each of the 3 stations for 45 min each.

1000 - 1045	Station 1: Pump Failure <i>Ryan Dzadony CCP, Wendy James CCP</i>
1045 - 1130	Station 2: ECLS Transport <i>Melissa Grayson CCP, Danielle Freeman CCP</i>
1130 - 1230	LUNCH
1230 - 1315	Station 3: VA ECLS Scenario <i>Penny Sappington MD, Brandon D'Aloiso CCP</i>
1315 - 1400	Station 4: TandemLife Demonstration <i>Michael Anselmi, CCP</i>
1400	COURSE ADJOURNMENT, Q&A