



UPMC Procirca Adult ECMO Training Course

Program Overview:

The UPMC Procirca Adult ECMO Training Course is a 3.5 day course designed for health care professionals interested in a foundational education in the care of the adult ECMO patient. Course content includes lecture on topics ranging from understanding the components of the ECMO circuit, patient selection, cannulation strategies, management of various ECMO patient groups to weaning and decannulation.

Panel discussions with ECMO 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 ECMO program.

Lecture will be supported with 12 hours of simulation based learning, including ECMO circuit basics, a high fidelity ECMO cannulation simulation, handling ECMO emergencies, and high-fidelity case simulation scenarios to help develop patient management and troubleshooting skills. Hands on time with multiple ECMO systems will be available.

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

Sponsored by UPMC Procirca and University of Pittsburgh School of Medicine Center for Continuing Education in the Health Sciences.

The University of Pittsburgh School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

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

Other health care professionals are awarded XXX continuing education units (CEU's) which are equal to XX Contact hours.

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

Course Objectives:

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

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

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**Course Agenda
Day One**

0700-0800	Registration and breakfast
0800-0830	Welcome and Overview of Course <i>Mike Anselmi, CCP</i>
0830-0900	Physiology of ECMO <i>Holt Murray, MD</i>
0900-0930	Indications/Contraindications for Adult ECMO Patient Selection Criteria <i>Penny Sappington, MD</i>
0930-1000	ECMO Cannulation Chris Sciortino, MD
1015-1100	Management of the Cardiogenic Shock Patient on ECMO <i>Chris Sciortino, MD</i>
1100-1140	Management of the Respiratory Failure Patient on ECMO <i>Penny Sappington, MD</i>
1140-1200	Anticoagulation on ECMO
1200-1300	LUNCH
1300-1330	Principles of ECMO circuit, components and design <i>Glenn Goss, CCP</i>
1345-1445	Hands on Learning: ECMO Circuit Basics Station 1: Thoratec Centrimag <i>Wendy James, CCP</i>
1500-1600	Hands on Learning: ECMO Circuit Basics Station 2: Sorin Revolution <i>Mike Anselmi, CCP</i>
1615-1715	Station 3: Maquet CardioHelp <i>Melissa Grayson, CCP</i>
1715	ADJOURNMENT DAY ONE

Day Two

0700-0800	Breakfast
0800-0830	Daily Management of the ECMO Circuit by the ECMO Specialist <i>Melissa Grayson, CCP</i>
0830-0900	Daily Patient Management of the ECMO Patient by the Bedside RN <i>Angela Brown, RN</i>
0900-0930	CRRT on ECMO <i>Scott Russell, CCP</i>
1000-1030	Intro to ECMO Simulation <i>Mike Anselmi, CCP</i>
1030-1100	Case Study <i>Ryan Rivosecchi, PharmD</i>
1100-1200	LUNCH
1200-1310	Hands on Learning: Cannulation and Initiation of ECMO Station 1: Cannulation and Initiation of ECMO <i>Penny Sappington, MD</i>
1325-1435	Hands on Learning: Station 2: CRRT on ECMO <i>Pete Arlia, CCP and Angela Brown, MSN</i>
1450-1600	Hands on Learning: Station 3: ECMO Circuit Checks/Daily Maintenance <i>Scott Russell, CCP</i>
1600	ADJOURNMENT DAY TWO

Day Three

0700-0800	Breakfast/Q&A
0800-0830	ECMO and the Adult Congenital Heart Disease Patient <i>Mahesh Sharma, MD</i>
0830-0900	Mechanical Emergencies and Complications on ECMO <i>Pete Arlia, CCP</i>
0900-0930	Ethical Concerns <i>Richard Weinberg, MD</i>
1000-1030	Outcomes in Adult ECMO <i>Jane Guttendorf, DNP</i>
1030-1100	Transport on ECMO <i>David Palmer, EdD, CCP</i>
1100-1140	Financial Impact of ECMO <i>Robert Dyga, CCP</i>
1140-1240	LUNCH

High Fidelity Simulation Sessions – ECMO Emergencies

1240-1410	Station 1: Case Simulation 1 <i>Melissa Grayson, CCP</i>
1430-1600	Station 2: Case Simulation 2 <i>Mike Anselmi, CCP</i>
1600	ADJOURNMENT DAY THREE

Day Four: Advanced Clinical Simulation Training

0700-0800	Breakfast
0800-0830	Medical Emergencies and Complications on ECMO <i>Penny Sappington, MD</i>
0830-0900	Case Report <i>Wendy James, CCP</i>
0900-1030	Simulation Station 1: VA ECMO Scenario <i>Mike Anselmi, CCP</i>
1100 -1230	Simulation Station 2: VV ECMO Scenario <i>Melissa Grayson, CCP</i>
1230	COURSE ADJOURNMENT