



Extracorporeal Membrane Oxygenation (ECMO) Education and Simulation Training
Magovern Conference Center

Course Director/Moderator: Tyler VanDyck, MD/ Subbarao Elapavaluru, MD
March 5 and March 6, 2024 08:00-4:30

Objectives

The purpose of providing multidisciplinary education and simulation training to the team caring for and managing patients on ECMO. The course provides comprehensive didactic and simulation training in a multidisciplinary team setting to ensure competency to manage critical patients on ECMO with knowledge dissemination, skill acquisition, and competency verification.

Accreditation:

Allegheny General Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Allegheny General Hospital designates this live activity for a maximum of 13.75 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

Disclosure:

In accordance with the Accreditation Council for Continuing Medical Education (ACCME) and the policy of Allegheny General Hospital, presenters must disclose all relevant financial relationships, which in the context of their presentation(s), could be perceived as a real or apparent conflict of interest, (e.g., ownership of stock, honoraria or consulting fees). Any identifiable conflicts will be resolved prior to the activity. Any such relationships will be disclosed to the learner prior to the presentation(s).

The following physicians and speakers have nothing to disclose:

Dr. Tyler VanDyck
Dr. Subbarao Elapavaluru
Dr. Karthikeyan Ranganathan
Dr. Adnan Khalif
Dr. Morgan Krumeich
Dr. David Matteson
Dr. Shan Modi
Dr. David Poliner
Trevor Nissley, CRNP
Chelsea Konopka, Pharm D
Ilija Klipa ASCM-CEP
Cheryl Graper, BSN, CCRN
Larry Parker, BSN CCRN
Jessica Joy, CRNP
Alyssa Solimene, CRNP

To obtain AHN CME Credit:

TEXT SMS code to: (412) 301-9919

LELCUK

It will be announced at the beginning and end of each class. You are allotted **24 hours** after this conference to text in the code to show attendance and gain CME credit.

Click [here](#) for course registration

CME Evaluations:

Evaluations will be mandatory to receive CME credit. Thank you.

Agenda

Day 1

- 08:00 Intro to ECMO
History
Types of ECMO Dr. Tyler VanDyck
- 08:05 Circuit Anatomy/ Circuit Checks
Oxygenator Function
Cannula Sizing
All about Pressures, Chatter
Accessing the Circuit (CRRT?)
Circuit Blood Gasses
Circuit Complications and Emergencies Shelley Dulik-Brown, CCP, LP
- 08:45 Shock Overview
Types of Shock
Tissue Oxygen Consumption/ Delivery Dr. Tyler VanDyck
- 09:30 Cardiogenic Shock (+SCAI Staging)
Medical Management
Mechanical Devices for Cardiogenic Shock Dr. Kartikeyan Ranganathan/
Dr. Adnan Khalif
- 10:15 Break**
- 10:30 VA ECMO
Indications/ Contraindications/ Selection
Configurations (including BiVAD, Ecpella)
Resuscitation and Maintenance Phases of Support
Management and Monitoring (gas exchange)
LV Unloading
Dual Circulation Physiology
Weaning/ Decannulation Dr. Tyler VanDyck
- 11:30 Lunch**
- 12:00- 1:00 Vendors
- 1:00 ECPR Applications Dr. Shan Modi/
Dr. Phillip Ramirez
- 1:30 to 4:30 Rotating Small Groups
- Group 1 Nursing Care/ Charting, Equipment/ ECMO Cart overview/ Assisting with Cannulation
Larry parker, Cheryl Graper
- Group 2 VA ECMO Megacodes Simulation – Session 1
Dr. Tyler VanDyck/
Trevor Nissley CRNP
Dr. David Matteson
- Group 3 Mobility
(Bike/ Vital Go Bed/ Exercises/ Ambulating ECMO/ Safety) Ilija Klipa, Cardiac Rehab Specialist

Day 2

- 08:00 VV ECMO
Indications/ Contraindications/Selection
Configurations
Resuscitation and Maintenance Phases
Management and Monitoring
Weaning and Decannulation Dr. Tyler VanDyck

09:30 Break

09:45 Medical Complications of ECMO Support
Cardiac Arrest Management

Dr. Phillip Ramirez

10:30 Drugs on ECMO
Anticoagulation (drugs, monitoring, HIT)
Pressors/ Inotropes
Sedation

Chelsea Konopka, Pharm D

11:15 Staff Resilience

Morgan Krumeich, Psy.D.

11:45 Supportive Care- Bridge to nowhere

Tara Orgon Stamper DNP, CRNP

12:15 Lunch with Vendors

1:15-4:15 Small Group Sessions

Group 1 VV ECMO Simulation

Dr. Tyler VanDyck

Group 2 VA ECMO Megacodes- session 2

Trevor Nissley, CRNP

Group 3 HARVI/ ECPella Simulator

Dr. Karthikeyan Ranganathan/

Dr. Adnan Khalif

4:15 Test and Evaluation

Click [here](#) to confirm your course registration

Questions contact email sherri.aufman@ahn.org