



22nd Emirates Critical Care Conference

"From Evidence to Excellence: The Future of Critical Care"

Adult Extracorporeal Membrane Oxygenation (ECMO) Hands on Workshop

8 - 10 May 2026

InterContinental Hotel
Dubai, UAE



Conference Chairman:
Assoc. Prof. Dr. Hussain Al Rahma

Workshop Description

This course is intended to teach basic & advanced knowledge regarding managing severely critical ill patients who needs extracorporeal life support for refractory respiratory failure or refractory cardiogenic shock. Through the journey of the course, you will be able to master the important knowledge and skills for running ECMO, through interactive lectures, practical hands-on session, and simulations.

Workshop Objectives

- Discuss ECMO role, components, types, and mechanisms.
- Understand basic respiratory & cardiac physiology related to ECMO
- Learn ECMO indications and contraindications
- Demonstrate how to initiate & manage ECMO. discuss how to monitor patients on ECMO.
- Learn how to cannulate, wean and decannulate patients off ECMO.
- illustrate how to transport ECMO patients.

Target Audience

- Physicians (Intensivists, Cardiologists, Cardiac Surgeons, Emergency Physicians, Anesthesiologists).
- Nurses (ER, ICU, CCU).
- Perfusionists.
- Respiratory therapists.
- Paramedics

Workshop Directors



Dr. Mohamed Azzam



Dr. Husam Bahaudden

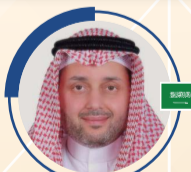
Workshop Faculty



Dr. Ayed Asiri



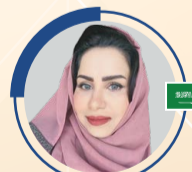
Dr. Namareq Aldardeer



Dr. Hani Mufti



Dr. Ghada Merdad



Dr. Wadiyah Alfifil



Dr. Vivek Kakar



Prof. Akram Abdelbary



Ms. Eman Andragiri

Workshop Registration Fees

Physicians & Non-Physicians | **₹ 1500**

Register Now

Day 1 - 8 May 2026, Friday

Adult Extracorporeal Membrane Oxygenation (ECMO) Hands on Workshop

10:30 - 11:00	Course introduction & ECMO history	Dr. Mohamed Azzam
11:00 - 11:25	Basic Respiratory Physiology & Gas Exchange	Dr. Wadiah Alfifil
11:25 - 11:55	Basic Cardiac Physiology Relevant to ECLS	Dr. Hani Mufti
11:55 - 12:15	Introduction to ECMO components & ECMO configurations.	Dr. Ayed Assiri

12:15 - 13:00 Lunch and Prayer

Practical Sessions

Basic Introduction

13:00 - 15:00

Machine Introduction, Configuration, and How to Prime
Dr. Mohamed Azzam, Ms. Eman Andrgiri, Dr. Wadiah Alfifil

13:00 - 13:40
13:40 - 14:20
14:20 - 15:00

A
C
B

B
A
C

C
B
A

Respiratory ECMO

15:00 - 15:25	Indication and contraindication for Respiratory Failure (Hypoxia or Hypercapnia)	Dr. Husam Bahauden Dr. Vivek Kakar
15:25 - 15:50	Initial setting for VV ECMO	Dr. Ayed Assiri
15:50 - 16:20	Managing Patient on VV ECMO and Troubleshooting	Dr. Wadiah Alfifil
16:20 - 16:50	Managing Hypoxia on ECMO (other advanced configurations)	Dr. Mohamed Azzam
16:50 - 17:10	Weaning & Decannulation	

17:10 - 17:15 Closing Remarks & Evaluation

Day 2 - 9 May 2026, Saturday

Adult Extracorporeal Membrane Oxygenation (ECMO) Hands on Workshop

Cardiac ECMO

08:00 - 08:30	Indication and contraindication of VA ECMO	Prof. Akram Abdelbary
08:30 - 08:50	Initial setting for VA ECMO	Dr. Hani Mufti
08:50 - 09:15	Monitoring Patient on VA ECMO	Dr. Vivek Kakar
09:15 - 09:40	Management of Patient on VA ECMO and Troubleshooting	Dr. Husam Bahauden
09:40 - 10:05	ECPR	Prof. Akram Abdelbary
10:05 - 10:25	Weaning & Decannulation	Dr. Ayed Assiri

10:25 - 10:40 Coffee Break

Practical Sessions

Case Based Scenario Practical Session

10:40 -12:00	ECCOR Dr. Mohamed Azzam/ Dr. Ghada Merdad	How to Manage RV Failure on ECMO Dr. Hani Mufti	Cardiac Arrest on ECMO Dr. Wadiyah Alfifil/ Ms. Eman Andrgiri
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10:40 - 11:05	A	B	C
11:05 - 11:30	C	A	B
11:30 - 11:55	B	C	A

12:00 - 13:00 Lunch Break

Miscellaneous ECMO

13:00 - 13:30	Renal Failure & RRT on ECMO	Dr. Husam Bahauden
13:30 - 13:55	ECMO in Trauma	Dr. Ghada Merdad
13:55 - 14:25	ECMO in Sepsis	Dr. Mohamed Azzam
14:25 - 15:00	Blood Transfusion & Anticoagulation on ECMO	Dr. Hani Mufti
15:00 - 15:25	Antibiotics, Drug Dosing, and Sedation on ECMO	Dr. Namareq Aldardeer

15:25 -15:30 Closing Remarks & Evaluation

Day 3 - 10 May 2026, Sunday

Adult Extracorporeal Membrane Oxygenation (ECMO) Hands on Workshop

Topic & Speaker

08:00 - 08:15 Q&A & Preparation

Cannulation Session

08:15 - 11:15

Cannulation for VV
ECMO
Dr. Wadiyah Alfilfil

Cannulation for VA
ECMO
Dr. Hani Mufti

Challenging Cases
(Consult the Expert)
Dr. Ayed Assiri/Dr.
Husam/ Dr. Azzam

08:15 - 09:15

A

A

A

09:15 - 10:15

C

C

C

10:15 - 11:15

B

B

B

11:15 - 13:00 Coffee & Lunch Break

Simulations Session ECMO Session Leader Dr. Wadiyah Al Filfil

13:00 - 13:20 Sim 1

13:20 - 13:40 Sim 2

13:40 - 13:50 Sim 3

13:50 - 16:10 Sim 4

16:10 - 16:20 Closing session