

EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO)

HANDS-ON WORKSHOP

WORKSHOP DESCRIPTION

Intended for Critical Care Physicians, Anesthesiologists, Thoracic Surgeons, Cardiac Surgeons and all interested Allied Health Professionals, This highly immersive hands-on workshop is designed to take the attendees through a complete Extracorporeal Membrane Oxygenation (ECMO) tour; from the basic physiological and mechanical principles to the latest techniques and technology updates. Through integrated clinical scenarios, providers will apply the knowledge gained towards the initiation and management of ECMO on simulated cases of acute respiratory and hemodynamic failure. Attendees will deepen their understanding of the applied physiology of both veno-venous (VV) and veno-arterial (VA) ECMO utilizing live tissue and high-fidelity Workshop stations and its interaction with conventional life support treatments.

WORKSHOP LEARNING OBJECTIVES

Upon completion of this workshop, participants should be able to:

- Understand the basic principles of ECMO.
- Identify the components of the ECMO circuit.
- Describe basic and advanced physiology of VV and VA ECMO.
- Recognize major indications and contraindications of VV and VA ECMO.
- Identify common problems and major complications of ECMO.
- Differentiate the interaction ECMO has on various patient organ systems.
- Comprehensively assess the ECMO patient with appropriate monitoring techniques.



Emirates Pediatric and Neonatal
Intensive Care Conference

مؤتمر الإمارات للعناية الحرجة لطب الأطفال
والأطفال الخدج

6 - 8 November 2019
Dubai, UAE

ACADEMIC SPONSORSHIP

Saudi Critical Care Society (SCCS) has Extra Corporeal Life Support (ECLS) Chapter. The chapter is represented by more than 27 physicians and surgeons throughout the Kingdom of Saudi Arabia who have been trained and qualified in treating patients with extra corporeal life support (ECLS). It provides ongoing teaching, supervision and research to ensure proper delivery of ECLS in high standard when needed.

COURSE DIRECTOR

Dr. Hani Mufti, MD and Dr. Husam Bahauden , MD

SCCS-ECLS Chapter Members

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Conference Secretariat: MCI Middle East



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Program

The ECMO Program consists of rotations between Didactic lectures and Hands-On stations. The program is designed so each participant will experience all stations and lectures. The topics are listed below.

6th November 2019

Time	Lecture
07:00 – 08:00	Registration
07:45 – 08:00	Announcements, Introducing Faculty and Intro to Simulation
08:00 – 08:25	ECLS History
08:30 – 08:55	Intro to ECLS Physiology
09:00 – 09:25	Intro to ECLS Circuits and Devices
09:30 – 09:55	Anticoagulation for ECLS
10:00 – 10:30	Coffee Break
	ECLS for patients with Normal Cardiac Anatomy
10:30 – 10:55	ECLS for neonates with Respiratory Failure
11:00 – 11:25	ECLS for neonates with Cardiac Failure
11:30 – 11:55	ECLS for children with Respiratory Failure
12:00 – 12:25	ECLS for children with Cardiac Failure
12:30 – 13:30	Lunch Break
13:30 – 13:55	ECLS for Sepsis
14:00 – 14:55	Hands on: Assembly and Orientation to the machine
15:00 – 15:55	Hands on: Case Scenarios Simulation
16:00 – 16:15	Coffee Break
16:20 – 16:40	Debriefing Post ECLS
16:40 – 17:00	End of Day 1: Q & A

7th November 2019

Time	Lecture
	ECLS for patients with Congenital Cardiac Disease
08:00 – 08:25	ECLS for non-cyanotic heart disease
08:30 – 08:55	ECLS for cyanotic heart disease
09:00 – 09:25	ECLS for single ventricle physiology
09:30 – 09:55	ECHO for patients on ECLS
10:00 – 10:30	Coffee Break
10:30 – 10:55	Complications & Emergencies
11:00 – 11:25	Transferring patients on ECLS
11:30 – 11:55	Weaning off
12:00 – 12:25	ICU Management of Patients on ECLS
12:30 – 13:30	Lunch Break
13:30 – 13:55	What should we do after we come off ECLS?
14:00 – 14:55	Hands on: Case Scenarios Simulation
15:00 – 15:55	Hands on: Mega Code
16:00 – 16:15	Coffee Break
16:20 – 16:40	When enough is enough? The ethics of end-of life on ECLS.
16:40 – 17:00	End of Day 2: Conclusion, Q & A