

**Course Name:** Pediatric Mechanical Ventilation Workshop (PMV)

**Accreditation:** Accredited by Middle East Critical Care Assembly /Saudi Arabia  
12 CME points accredited from Jordan medical Association.

**Workshop Description:**

A Two day workshop on Pediatric mechanical ventilation workshop that focus mainly on interactive workshops, hands on sessions with simulation and case studies; to augment lectures reviewing fundamentals of this life sustaining technology.

The course will deliver key messages that will guide the clinician towards evidence based application of mechanical ventilation for pediatric patients. In addition, a variety of different devices will be available to allow participants to practice and apply novel approaches and various feedback loops

**Workshop Objectives**

1. Define hypoxemic and ventilatory respiratory failure.
2. Understand the basic principles, indications, and complications of pediatric mechanical ventilation.
3. Understand principles of basic and advanced modes of mechanical ventilation.
4. Understand the different techniques of non-invasive mechanical ventilation.
5. Discuss basic principles of mechanical ventilation related to different disease processes.
6. Interpret basic flow, volume and pressure scalars and loops obtained from the mechanical ventilator.
7. Understand basic monitoring on Mechanical ventilation.
8. Understands the practice best weaning modes and weaning processes.

**Targeted Audience**

- All Clinicians working in pediatric intensive care units and dealing directly with ventilated patient's
- Pediatric Doctors, anesthesia, surgery and emergency residents.
- Nurses, respiratory therapists and anesthesia technicians in training or practitioners

**Course Duration & Frequency:**

- Approximately 17 hours
- 1 courses every year or upon request

**Completion criteria to receipt the MCCA Certificate:**

- At the end of the course, Participants are required to sit for written posttest. Pediatric Mechanical Ventilation Providers certificate is issued to all participants who pass the posttest.

**Student Materials:**

Pediatric Mechanical Ventilation Manual

**Course Program**

<u>Day 1</u>		<u>Day 2</u>	
<u>Lectures</u>	<u>Workshops</u>	<u>Lectures</u>	<u>Workshops</u>
<b>Principles of Mechanical Ventilation</b>		<b>Clinical Practice of Mechanical Ventilation</b>	
Respiratory Failure and Indication of MV	Non-invasive ventilation in Pediatrics:	MV in ARDS	MV Trouble Shooting in Pediatric MV
Principles of Mechanical Ventilation	Conventional Modes in Pediatrics:	MV in Severe Airflow Obstruction	Challenging cases in Weaning MV
Oxygenation and Ventilation Monitoring during MV	X-ray interpretation on Pediatric MV:	Weaning	High Flow Nasal Cannula:
	Interface- Ventilator setup		Hands-on MV: Clinical Scenarios
<b>Monitoring and Complications of Mechanical Ventilation</b>		<b>Nonconventional MV</b>	
Assessment of Ventilator Graphics	Control variables	High-Flow Therapy	RC



**ACADEMIC AFFAIRS**

**Life Support Training Center**

**Middle East Critical Care Assembly**

**Pediatric Mechanical Ventilation**

Pulmonary Complications of MV	Phase Variables	HFOV Theory	PV Tool
Airway and Other Complications of Mechanical Ventilation	Basic Modes	HFOV Practice	Interactive Cases1
	PRVC/ARPV		Interactive Cases2
<b><u>Pretest</u></b>		<b><u>Posttest</u></b>	