



ADVANCED COURSE IN CRITICAL CARE (ACIC) MECHANICAL VENTILATION

Conducted by Raymedi International Education

[Affiliated to International Board of Medicine and Surgery (IBMS), Florida, USA]

In Association with

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH SKILL AND SIMULATION CENTER

The prime focus of ACIC is to provide advanced training for all Intensivist aspirants,

Anaesthesiologists, General Physicians, Emergency Physicians, Medical Students aspiring
to provide optimum treatment for the critically ill.

DATE AND DAY

26th August 2022, Friday











TIMINGS	TOPICS	TIME LINE [MIN]
W.	DAY1	
08:15 AM-08:30 AM	Registration	15
08:30 AM-08:45 AM	Pre-test paper	15
08:45 AM-09:00 AM	Introduction and Inauguration	15
09:00 AM-09:35 AM	Modes of Mechanical Ventilation	35
09:35 AM-10:00 AM	Ventilator Graphics	25
	SKILL STATIONS	
10:00 AM-11:00 AM	A: Initiation of invasive mechanical ventilation Indications for intubation,Respiratory cycle: Trigger, Limit and Cycling, Volume and pressure controlmodes, Assist control modes, SIMV with PS, Weaning modes: Pressure supportmode, Newer Modes esp. APRV, PAV, ASV, PRVC	60
11:00 AM-11:15 AM	REFRESHMENTS	15
11:15 AM-12:15 PM	B: Alarm settings and trouble shooting High pressure and low-pressure alarms, High and low minute ventilation or tidal volume alarms, Approach to acute respiratory deterioration on ventilator, Approach to high peak pressure alarms, Approach to dynamic hyperinflation (Auto PEEP)	60
12:15 PM-1:15 PM	C: Noninvasive ventilation-Indications and Contraindications, PrerequisitesInitiation and maintenance, Alarm settings and troubleshooting,Patient - Ventilator synchrony, Weaning NIV, Complications	60
01:15 PM-01:45 PM	LUNCH	30
01:45 PM-02:15 PM	All together: Approach to difficulty in weaning	30
	SKILL STATIONS	
02:15 PM-03:00 PM	A: ARDS ventilation: Protective lung ventilation, Understanding drivingpressures, Recruitment Prone ventilation	45
03:00 PM-03:45 PM	B: COPD and Asthma Invasive ventilation Invasive ventilation, Identification and management, Auto PEEP	45
03:45 PM-04:30 PM	C: High flow nasal oxygen therapy Ancillary therapy: Ancillary careof ventilated patient, HME and heated humidifiers Nebulizers and MDI	45
04:30 PM-05:00 PM	Post test	30
05:10 PM-05:30 PM	Post-test discussion Certificates Refreshments Photo session	20





OBJECTIVES

- To provide hands-on experience of both invasive and noninvasive mechanical ventilation on manikin
- To understand basic features of positive pressure breath with respiratory cycle
- To know about ventilator graphics and their implication in the management of a ventilated patient
- To identify key determinants of ventilator-induced lung injury and their prevention

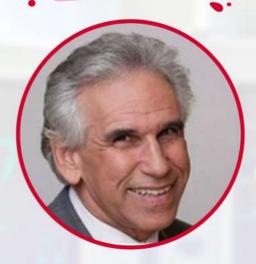
OUTCOME

- Become an expert at determining conventional settings for treating acute respiratory failure
- Comfortable in managing ventilated patients independently
- Comfortable in escalating ventilator management independently or in discussion with treating team









Dr. David P. Kalin
MD MPH, IBMS Chairman

PARTICIPANTS WILL BE LEARNING

- Basic understanding of variables flows, volume, pressure and time and how ventilator works
- Basics of mechanical ventilation both invasive and non-invasive ventilation
- Initiation of mechanical ventilation
- Basic modes of mechanical ventilation
- Ventilator graphics- scalars and loops
- Alarm setting and trouble shooting
- Humidification and aerosol therapy
- Weaning from mechanical ventilation
- Ancillary care of ventilated patient
- ARDS ventilation
- COPD with acute exacerbation and severe acute asthma ventilation
- High flow nasal oxygen therapy (HFNO)





Facilitators & Critical care specialists



Dr. Archana S



Dr.Ramakrishna M N



Dr. Ashwini A



Dr. Laxmikant B S



Dr. Raju B



Dr. Shobharani S



Dr. Akshay H M



Dr. Abhilash



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Course Directors



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