



ACIC



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]

DAY 1

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 control modes, Assist control modes, SIMV with PS, Weaning modes: Pressure support mode, Newer Modes esp. APRV, PAV, ASV, PRVC	60
-------------------	---	----

REFRESHMENTS

11:00 AM-11:15 AM		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, Prerequisites initiation 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 driving pressures, 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 care of 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



Associate



Dr. David P. Kalin
MD MPH, IBMS Chairman

PARTICIPANTS WILL BE LEARNING

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



ACIC

RAYMEDI INTERNATIONAL

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



Dr. Raghunath Aladakatti



Dr. Naganand K V

Course Directors



Dr. Jayaraj
Professor and HOD Pulmonology
JSS AHER, Mysore



Dr. Gurudatt C L
Professor and HOD Anaesthesiology
JSS AHER, Mysore

In Association with Faculties from Department of Anaesthesia and Critical Care,
JSS Medical College and Hospital, Mysuru.