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AL-AZHAR
MEDICAL COLLEGE AND SUPER SPECIALITY HOSPITAL

THE FIRST BREATH

VENTILATOR WORKSHOP



Mechanical ventilation is more than setting a mode, choosing a tidal volume, or adjusting the PEEP.

It is about understanding what the patient needs — and knowing what every breath is doing to the physiology.

From the **decision to ventilate** to the **art of choosing the right settings**, **The First Breath** takes you beyond the numbers and into the reasoning behind mechanical ventilation.

Through interactive discussions, real-world scenarios, ventilator waveform interpretation and hands-on stations, we will explore the challenges you face at the bedside — from ARDS and COPD to acute heart failure, trauma and ventilator troubleshooting.

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WORKSHOP HIGHLIGHTS

01 VENTILATOR – WHAT, WHEN & HOW?



- Why ventilate? When is it truly therapeutic?
- Supportive ventilation vs therapeutic ventilation
- Physiological changes with positive pressure
- Turning physiology into ventilator strategies
- When can ventilation help – and when can it harm?

02 VENTILATOR MODES – LOST IN TRANSLATION?



- Volume, Pressure & the many names in between
- Is Volume Control always the first choice?
- Pressure Control – why are we afraid of it?
- What actually changes when we switch modes?
- Same concept, different names
- How to choose the right mode for the right patient?

03 THE VENTILATOR IS TALKING – ARE YOU LISTENING?



- Don't just look at the numbers. Read the breath.
- Decode waveforms & loops
- Recognise patient–ventilator dyssynchrony
- Spot problems before the alarm
- Turn curves into clinical decisions

04 DON'T SILENCE THE ALARM – SOLVE IT!



- Is every alarm a problem?
- When should you act – and when should you pause?
- Don't just increase the alarm limit.
- Understand the cause. Follow a systematic approach.
- Recognise the alarm → Identify the cause → Troubleshoot → Act

05 THE ARDS CHALLENGE – CAN YOU RESCUE THESE LUNGS?



- An ARDS ventilator challenge
- Hypoxaemia. Stiff lungs. High pressures.
- Your settings matter.

06 COPD: DON'T TRAP THE BREATH!



- Let them breathe out – before you give them the next breath.
- Recognise air trapping
- Understand auto-PEEP
- Adjust RR, flow & I:E ratio
- Prevent dynamic hyperinflation

07 WHEN THE HEART NEEDS A VENTILATOR



- Can positive pressure actually treat heart failure?
- CPAP or BiPAP?
- When to start?
- What does the pressure do?
- When to intubate?

08 TRAUMA: WHEN VENTILATION BECOMES A BALANCING ACT



- TBI, flail chest & the challenge of getting it right
- Balancing oxygenation, ventilation and the haemodynamics

DEC 4, 2026
(FRIDAY)

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BONUS STATIONS

HANDS-ON SKILLS. REAL-WORLD CONFIDENCE.

01 INTUBATION

GET IT RIGHT. EVERY TIME.

- Airway assessment and preparation
- Video laryngoscopy and direct laryngoscopy
- Tips, tricks and troubleshooting
- Confirmation of tube placement



02 CRICOTHYROTOMY

WHEN YOU CAN'T INTUBATE. ACT.

- Indications and when to choose
- Step-by-step technique (SCALPEL–BOUGIE)
- Hands-on practice on models
- Common pitfalls and how to avoid them



03 TRACHEOSTOMY

BEYOND THE OR. THE ESSENTIALS.

- Indications and timing
- Surgical vs percutaneous approach – key steps
- Tube selection and insertion
- Post-procedure care and troubleshooting



04 AIRWAY POCUS

SEE THE AIRWAY. MAKE BETTER DECISIONS.

- Identify airway anatomy
- Confirm ETT placement
- Detect complications (e.g. mainstem, pneumothorax)
- Integrate ultrasound into airway management



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REGISTRATION DETAILS

SECURE YOUR SPOT FOR A HANDS-ON LEARNING EXPERIENCE

REGISTRATION FEE

	Till October 31	Nov 1 – Nov 15	After Nov 15
FOR **RESIDENTS / MBBS GRADUATES**	₹ 2,000	₹ 3,000	₹ 4,500
FOR **CONSULTANTS**	₹ 2,500	₹ 3,500	₹ 5,000

SCAN TO REGISTER

REGISTRATION LINK

https://docs.google.com/forms/d/e/1FAIpQLSfnpMEy73C1RSateIzFWQG9WsAiYUK2pLCzaruZlL-IK47aXg/viewform?usp=publish-editor

REGISTRATION INCLUDES

- Access to all workshop sessions
- Refreshments and lunch
- Hands-on training and skill stations
- Certificate of participation
- Workshop study material
- Interaction with experts and faculty

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FOR MORE DETAILS, CONTACT

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