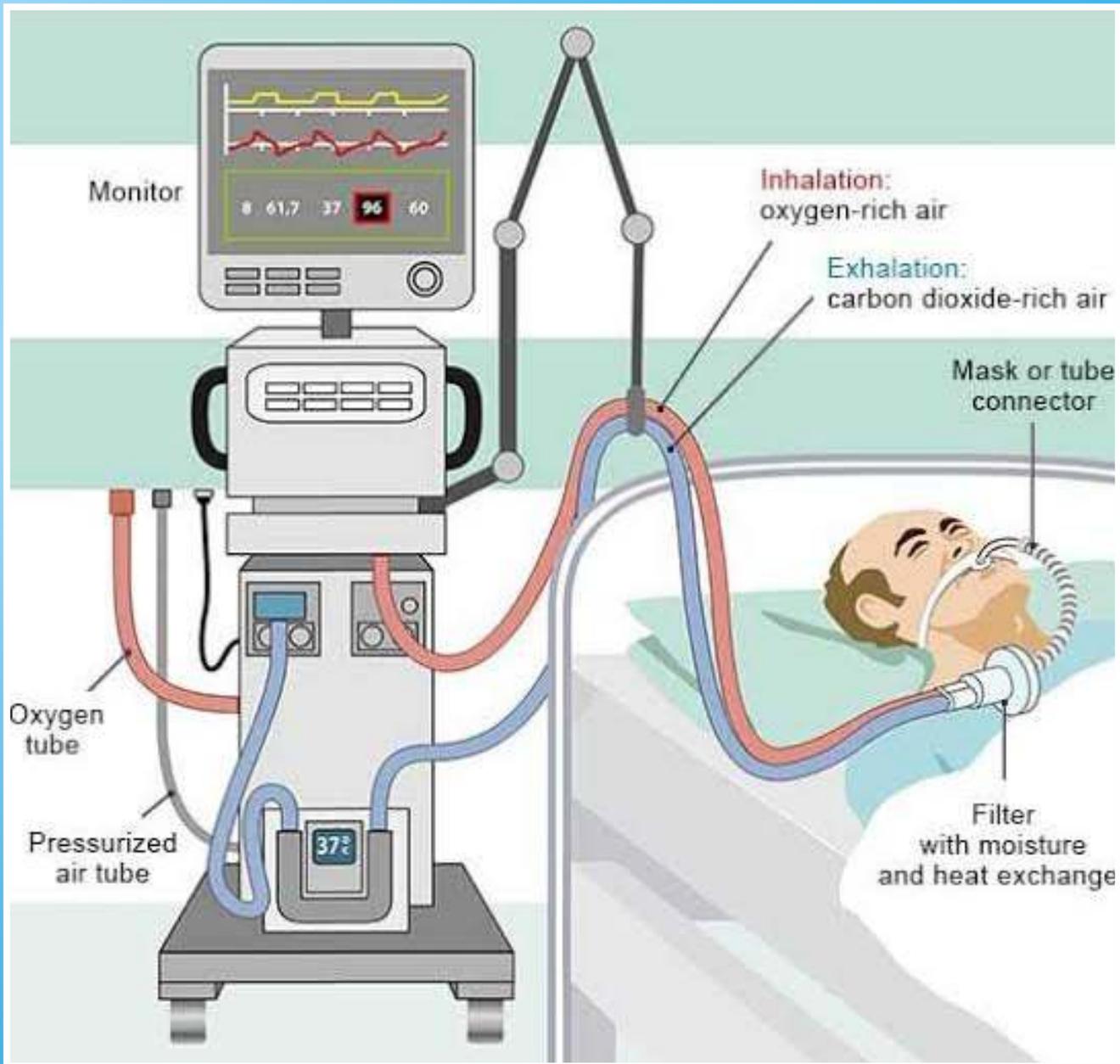


“BASICS OF MECHANICAL VENTILATION”



Aims and Objectives : Department of Cardiac Anaesthesia has started the Basic course in Mechanical ventilation targeting the Allied health sciences students and the interns of MBBS in view of need of the knowledge of mechanical ventilation. In view new and emergent epidemics like COVID 19 and other viral respiratory illnesses requiring oxygen and ventilatory support requires the knowledge of such treatment strategy. The health care needs are increasing and so the hands should. Targeted training of allied health sciences students will make it possible.

Course: “Basics of Mechanical Ventilation”

Course duration: 18 hours (Completed over 3 weeks)

Target audience: MBBS interns, Post Graduate students in
Internal Medicine, Surgery, M. Sc. in Nursing.

Course contents: Introductory remarks from Course Director: 30 min.

1. Faculty lectures: 9 lectures (45 min each)

- Basics of ventilation and oxygen delivery.
- Respiratory physiology and mechanics.
- Respiratory failure and ARDS
- Modes of oxygen delivery.
- Modes of ventilation – CPAP and HFNV.
- Modes of mechanical ventilation – Pressure and volume control.
- Modes of mechanical ventilation – SIMV and Pressure support.
- Weaning from mechanical ventilation.
- ECMO: - basics, indications and role in respiratory failure.

2. Demonstration lectures: 7 lectures (45 min each)

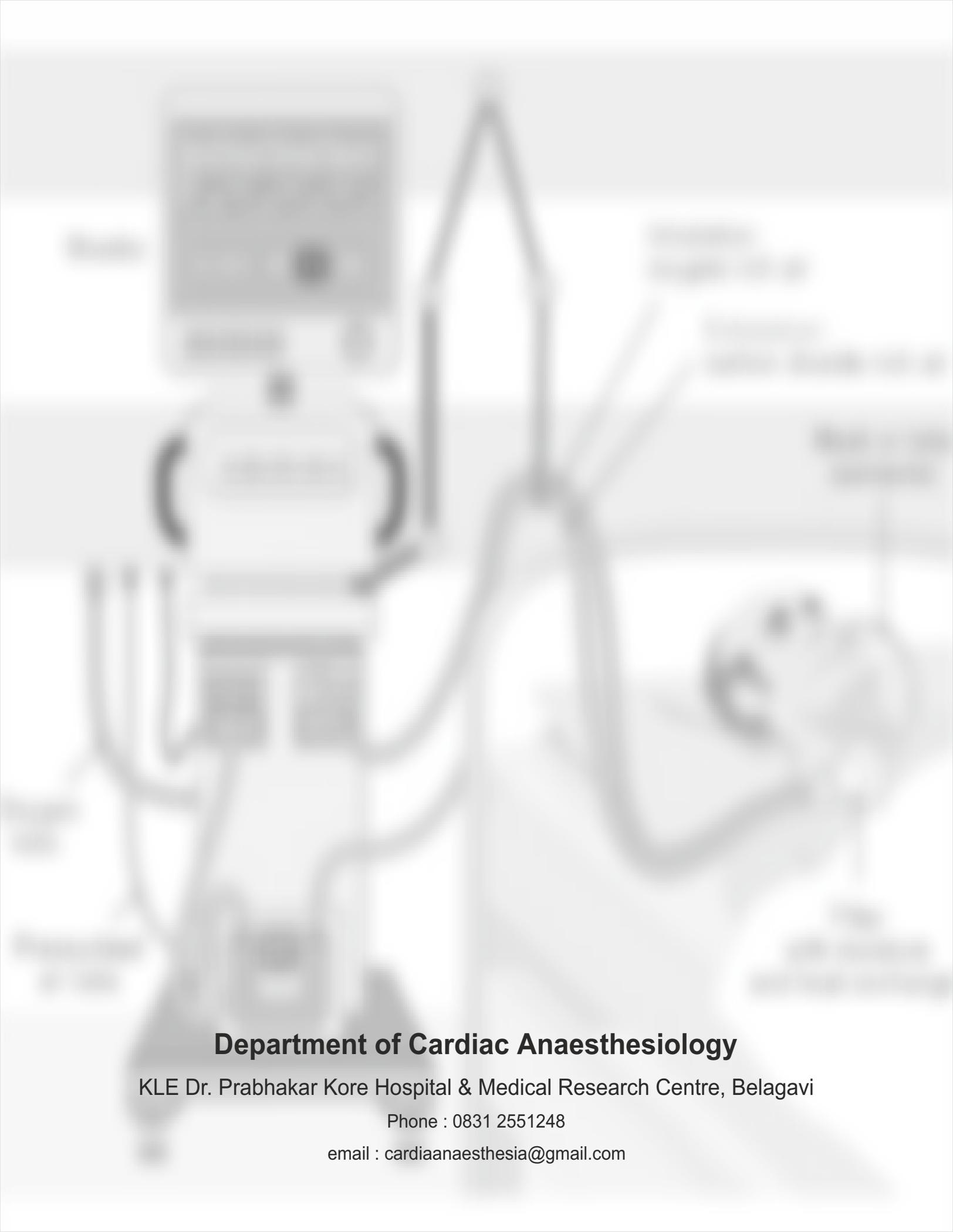
- Introduction to ventilator machine and knobology.
- Introduction to instrumentation and gadgetry required for mechanical ventilatory support.
- Setting up and initiation of CPAP and Non-invasive ventilation.
- Setting up and initiation of mechanical ventilation.
- Demonstration of Modes of mechanical ventilation.
- Weaning criteria and Strategies for weaning off ventilator.
- Video demonstration of ECMO.
- Two hours hands on training.

Course Completion address from Course Director: 15 min.

Certificate distribution: 15 min.

Course Director: Dr. Anand Vagarali.

Course Co-ordinator: Abhijeet Shitole.



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