



***SNS COLLEGE OF ALLIED HEALTH SCIENCES
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AFFILIATED TO Dr MGR UNIVERSITY, CHENNAI***

***DEPARTMENT OF OPERATION THEATRE AND
ANAESTHESIA TECHNOLOGY***

3rd YEAR

SUBJECT: Principles of Anaesthesia II

TOPIC: Setting up of Ventilator



Setting up of the ventilator :

- Connect the oxygen & air pipelines to the appropriate wall outlets
- Connect an adult ventilator inlet and outlet and attach a test lung
- Ventilator settings:
 - ✓ Mode-volume control-SIMV with pressure support
 - ✓ Tidal volume-6-8ml/kg
 - ✓ Respiratory rate-14breaths/min
 - ✓ Inspiration:expiration ratio-1:2
 - ✓ Pressure support-15 cm h₂O
 - ✓ Positive and expiratory pressure-PEEP-5cm h₂O
 - ✓ Fio₂-fraction inspired oxygen concentration-fio₂-100%



- Connect the ventilator to the endotracheal tube
- Check for the chest movements & auscultate to confirm air entry
- Reduce the fio2 to 60% once the spo2>96%

Monitoring:

- For oxygenation
 - ✓ Look at spo2 & pao2
 - ✓ To treat hypoxia-pao2<60mm hg
- For ventilation
 - ✓ Look at paco2 & etco2
 - ✓ To treat hypercapnia
 - ✓ Monitor airway pressure



THANK YOU