



***SNS COLLEGE OF ALLIED HEALTH SCIENCES
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***DEPARTMENT OF OPERATION THEATRE AND
ANAESTHESIA TECHNOLOGY***

3rd YEAR

SUBJECT: Principles of Anaesthesia II

TOPIC: Weaning & Extubation



- Consider weaning when
 - ✓ Patient is awake ,calm & not agitated
 - ✓ Temperature-35.5-37.5c
 - ✓ Hemodynamically stable
 - 1.Systolic blood pressure 100-160mm hg
 - 2.Heart rate-50-100/min & sinus rhythm
 - ✓ Minimal drainage <100ml/hr
 - ✓ Urine output >0.5ml/kg/hr
 - ✓ Blood sugar less than 200mg/dl
 - ✓ No metabolic acidosis-ph>7.3 & lactate <30mg/dl
 - ✓ Pain score 0 or 1
 - ✓ Respiratory
 - 1.pao2>100mm hg on fio2 of 60%



2. PEEP < 5 cm H₂O

3. RR-12-30/min

- Chest xray seen

1. No mediastinal widening

2. Adequate expansion of both lungs

3. No major pleural fluid

4. No pneumothorax

5. Absence of infiltrates

6. No pulmonary congestion



- If the weaning criteria is met
 - ✓ Reverse muscle relaxants in adults with 0.4mg glycopyrolate & 2.5 mg of neostigimine at a temperature 35.5 degree c
 - ✓ Reduce the SIMV rate by 2 breaths every 15 minutes till 8 breaths /min
 - ✓ Reduce the pressure support to 10-12 cm h₂o
 - ✓ Change mode to CPAP with pressure support of 8-10 & peep pf 5cm h₂o
 - ✓ Do an abg after 1-1.5hours

- Consider extubation
 - ✓ Respiratory
- 1.tidal volume>5m//kg



2.RR is not less than 12/min & not more than 30/min

3.ABG

- ✓ Patient awake & hemodynamically stable
- ✓ Temperature > 36.5

- Extubation
 - ✓ Elevate head and end of the bed to 45 degrees
 - ✓ Hand hygiene & wear clean gloves
 - ✓ Perform endotracheal suction
 - ✓ Perform oropharyngeal suction
 - ✓ Deflate the cuff of ett
 - ✓ Ask patient to cough as ett is being removed as this helps with clearing of secretions



- ✓ Keep a face mask with 4-6l/min of o₂
- Post extubation evaluation:
 - ✓ Watch for use of accessory muscles
 - ✓ See for chest retractions
 - ✓ Respiratory rate should be <35/min
 - ✓ Arterial o₂ saturation >94%
 - ✓ Hemodynamics stable
 - ✓ Pulse increase <20bpm
 - ✓ Systolic bp >90mmhg



- Consider NIV
 - ✓ Patients with severe LV dysfunction
 - ✓ SPO2 <92%
 - ✓ RR >35/min
 - ✓ History of sleep apnea



THANK YOU