

Mechanical Ventilation:

Tips and Tricks for our Intubated Patients

Preparing for Intubation – Rapid Sequence Intubation

****Always remember to give sedating medication 1st****

Sedation

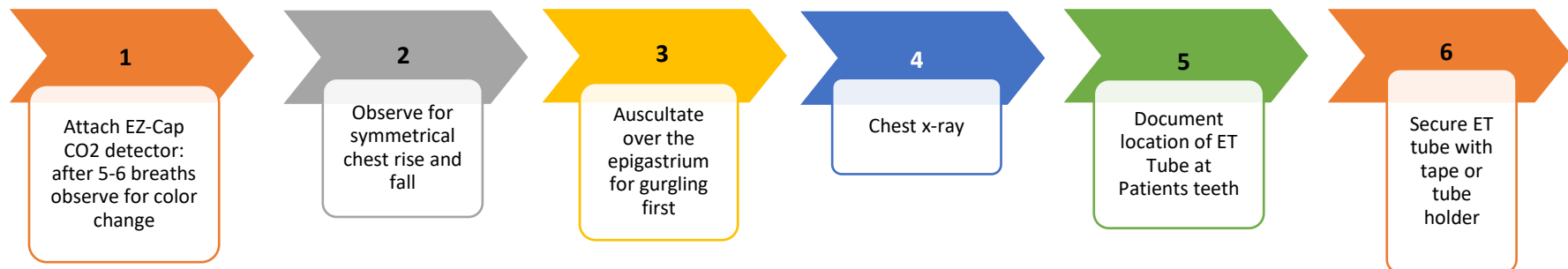
- Etomidate - 0.3mg/kg
- Ketamine - 1 mg/kg

Paralytics

- Succinylcholine 1.5 mg/kg
 - Most common
 - Half life approx 10 minutes
- Rocuronium 50-100 mg
- Vecuronium 10 mg given once
- Rocuronium and vecuronium have a longer onset of action will last approx 30-60 min.



Confirmation of ET Tube



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Propofol

Start at 10 mcg/kg/min

Max rate: 50 mcg/kg/min

Titrate by 5 mcg/kg/min every 5 minutes to goal RASS

Must have a dedicated line & change tubing every 12 hours or at any time if contamination is suspected

Midazolam

Give Midazolam 5mg IV once over 1 minute

Start at 1 mg/hr

Max 10 mg/hr

Titrate by 1 mg/hr every 10 minutes to goal RASS

Continuous Sedation Infusion:

Ventilator Settings:

FiO2

- The percentage of oxygen
- Room air is 21% oxygen

PEEP

- Positive End Expiratory Pressure
- Exerts pressure in patient's airway above atmospheric pressure
- Most patient's should receive 5 cm H2O of PEEP
- Prevents atelectasis

PIP

- Peak inspiratory Pressure
- 10-15 cm H2O
- Pressure pushed into lungs to take a breath

Tidal Volume

- Amount of air inhaled during inhalation
- Typically 5-6 mL/Kg Ideal body weight

Rate

- How many breaths per minute
- General range 8-18 breaths per minute
- Setting depend on tidal volume
- Degree of acidosis

Continuous Frequent monitoring of:

- Blood pressure (Observe Closely for hypotension and respiratory depression)
- Heart Rate
- Respiratory Rate
- Oxygen saturation
- End Tidal CO2
- Location of ET Tube - placement will be assessed and documented after any repositioning

Care of the intubated Patient

- Head of bed Elevated at least 30 degrees to increase lung expansion
- Head midline to allow for venous drainage
- Soft wrist restraints to prevent accidental dislodgement of tube
- Adequate sedation and pain control

Trouble Shooting

- DOPE Pneumonic
- Displaced
- Obstructed
- Pneumothorax
- Equipment Failure