

INTUBATION

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GATHER/TEST EQUIPMENT

- | | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> NC | <input type="checkbox"/> ETT x2 sizes | <input type="checkbox"/> Video scope | <input type="checkbox"/> Cric kit |
| <input type="checkbox"/> BVM + PEEP Valve | <input type="checkbox"/> Blade x2 | <input type="checkbox"/> LMA | |
| <input type="checkbox"/> Free flowing IV | <input type="checkbox"/> OPA | <input type="checkbox"/> Bougie | <input type="checkbox"/> Ventilator |
| <input type="checkbox"/> EKG, SpO ₂ monitor | <input type="checkbox"/> Suction | <input type="checkbox"/> Capnograph | |

PLAN

- Assess for difficult airway (LEMON)
 - Look externally (beard, teeth, etc)
 - Evaluate with 3:3:2 finger rule
 - Mallampati score
 - Obstruction (burns,)
 - Neck Mobility
- Anticipate risks (HOpl killers)
 - HYPOTENSION → fluid? pressors?
 - OXYGENATION → pre-ox plan?
 - pH (ACIDOSIS) → adequate vent?
 - ICP ISSUES → Premed? BP control?
- Approach: RSI / DSI / Awake
- Pre-Medication and Paralytics
 - Consider Succ contra-indications
- Primary and secondary airway plan
- Emergency plan/Cric preparations

PRE-MEDICATION

LIDOCAINE 1.5 mg/kg
FENTANYL 3 mg/kg

INDUCTION

ETOMIDATE 0.3 mg/kg
KETAMINE 1 - 2 mg/kg
PROPOFOL 2 - 3 mg/kg
MIDAZOLAM 2 - 4 mg
FENTANYL 100 mcg

PARALYTIC

ROC 1.2 -1.5 mg/kg
SUCC 1.5 mg/kg
CISATRACURIUM 0.3 mg/kg



TIME-OUT/VERBALIZE PLAN



- CONSENT/EXPLAIN (if possible), verify DNR/DNI STATUS
- Verbalize the above plan and assign roles Don PPE

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PREPARATION/INDUCTION

- Position patient, adjust height of bed
- De-nitrogenation
- Push medications and wait

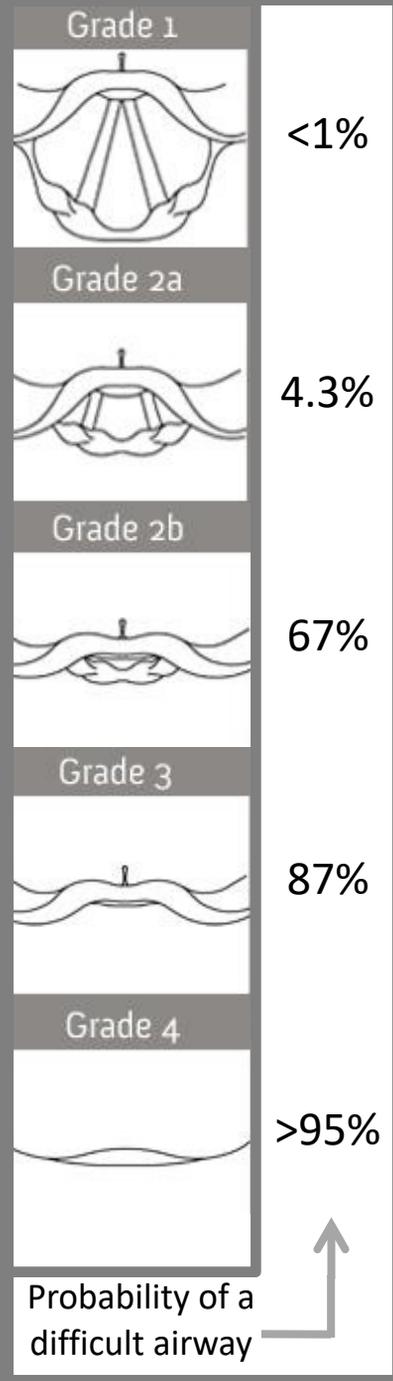
VISUALIZATION/TUBE PLACEMENT

- Insert Laryngoscope
Sweep tongue, advance blade, lift jaw
Consider placing towel under occiput
- "Call the view" and suction if needed
- Adjust view if needed
If **unable to visualize** → alternative blade/operator
Still **unable to visualize** → go to plan B
- Place tube, withdraw stylete
If **unable to pass** → use smaller size tube + lube
If **persistent problem** → **difficult airway procedure**

CONFIRMATION

- Auscultate
- Capnography
- Repeat DL/VL if uncertain

MODIFIED CORMACK-LEHANE GRADE



ETT SIZING/DEPTH

Women	7.0 - 8.0 mm ETT	21 cm
Men	7.5 - 8.5 mm	23 cm
Peds	(16 + age in yrs) / 4	

INTUBATION

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POST INTUBATION MANAGEMENT

- Secure ETT
- Reassess hemodynamics and oxygenation
 - Consider fluid bolus/pressors
 - If unstable → **hemodynamic collapse post intubation protocol**
- Analgesia/Sedation plan
 - Hypertensive: propofol gtt + fentanyl bolus
 - Hypotensive: fentanyl bolus + low dose midazolam bolus
 - address and treat cause of hypotension
- Ventilator settings
 - Oxygenation: start FiO₂ 1.0, if hypoxemic add PEEP
 - wean FiO₂/PEEP for goal SpO₂ > 90%
 - Ventilation: ensure MV is at least matching pre-intubation

MV

use ETCO₂ or ABG to adjust

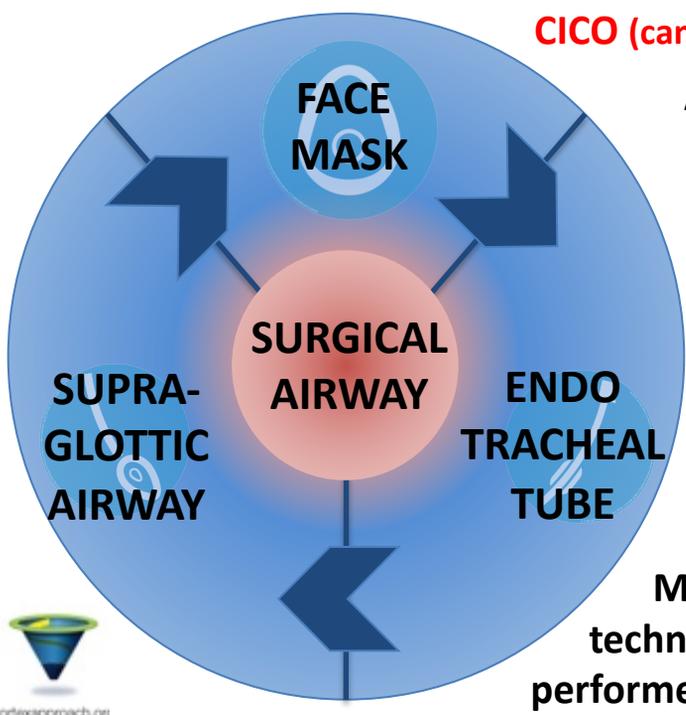
Document plateau pressure (before paralytics wear off) _____

Monitor for breath stacking as paralytics wear off
- Connect in-line suction
- Place NG/OG Tube
- ABG (ideally at least 10 min post intubation)
- Chest radiograph (ideally post NG placement)
- HOB > 30 degrees

INTUBATION

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DIFFICULT AIRWAY PROCEDURE



CICO (can't intubate can't oxygenate) → eFONA

After each failure consider:

- 1. MANIPULATION of**
Head/neck position
External larynx
Device
- 2. Use of ADJUCTs**
- 3. Different SIZE/TYPE**
- 4. Use of SUCTION**
- 5. Optimizing MUSCLE TONE**

MAXIMUM of THREE attempts of each technique. At least one attempt should be performed by the most experienced clinician.

EMERGENCY FRONT OF NECK AIRWAY (eFONA)

- 1. Position** (neutral neck) and **Prep:** sterilize skin, local analgesia (*if time*)
- 2. Palpate** cricothyroid and **stabilize** trachea (non-dominant hand)
- 3. Vertical incision** 2-3 cm midline
- 4. Horizontal incision** 1-2 cm through cricothyroid membrane
- 5. Insert scalpel** into trachea, rotate 90 degrees
- 6. Place Tracheal hook** into incision, apply superior traction
- 7. Insert endotracheal tube** and **confirm placement**

HEMODYNAMIC COLLAPSE POST INTUBATION

- POSITION** – esophageal, R mainstem? → **1. verify placement**
- PEEP** – Auto-PEEP from breath-stacking? → **2. break circuit, use BVM**
- PRELOAD** – loss of preload? hypovolemic? → **3. fluid bolus**
- TONE** – loss of sympathetic tone → **5. start/increase pressors**
- TENSION** – development of tension PTX? → **4. chest US, consider needle**