

PAEDIATRIC CRITICAL CARE UNIT COVID-19 AIRWAY MANAGEMENT

FLWSHEET

INSIDE TEAM – MD x2, RRT, RN x2

OUTSIDE TEAM- RRT, RN x2

Personal Protective Equipment

AGMP* PPE

- At least Level 3 Gown
- N95 Mask
- Goggles or Face Shield
- Extended cuff gloves (nitrile/sterile)
- Hair bouffant
- Extra gloves for RRT

Droplet/Contact PPE

- Level 2 Gown
- Surgical mask with face shield
- Gloves

*Please note Runner #1 should be in AGMP PPE

REFER TO AIRWAY MANAGEMENT MAP FOR SET-UP

Planning

- Intervene early
- Consult Anesthesia
- No learners
- Intubation equipment
- COVID Arrest Box in room
- Connect and test speakerphone

- Additional support staff: 2x Runners, RN Recording
- Connect and test speakerphone
- Prepare/call for rescue devices, other equipment (e.g. bronchoscopy)
- Arrest Cart Available

COMPLETE AIRWAY MANAGEMENT CHECKLIST

Pre-Ox

- 5 min at FiO₂ 100% via NRB
- Avoid manual ventilation – if needed, use 2-person BMV technique

Pre-Treat

- RSI drugs
- Consider: Crystalloid bolus, atropine

Perform

- Most experienced operator to intubate
- Rapid Sequence Induction
- Preferred: Video-assisted laryngoscopy

Post-Intubation

- Inflate ET cuff, then auscultate and ventilate
- Confirm with waveform ETCO₂

- "Buddy check" doffing of "Inside Team" members, staggered doffing

DONNING

DOFFING

* Examples of Aerosol generating medical procedures (AGMP):

- Intubation
- Extubation
- Non-invasive positive pressure ventilation
- High flow NC
- BMV
- Deep suctioning
- Nebulizer treatments

1. Hand hygiene
2. Level 4 Gown for AGMP
3. N95 Respirator Mask
4. Head/Eye Protection (Goggles or Face shield -> Bouffant)
5. Gloves (long cuff)

1. Remove gloves
2. Hand hygiene
3. Remove gown
4. Hand hygiene
5. Remove Head Protection
6. Hand hygiene
7. Remove Eye Protection
8. Hand hygiene
9. Remove N95 Respirator Mask
10. Hand Hygiene

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CHECKLIST

PATIENT WEIGHT: _____ KG

PATIENT SET-UP

- | | |
|--|---|
| Monitors: | <input type="checkbox"/> IVF maintenance fluid set-up |
| <input type="checkbox"/> EKG | <input type="checkbox"/> Patient positioning |
| <input type="checkbox"/> NIBP cycling (cuff contralateral to IV) | <input type="checkbox"/> Nasal prongs |
| <input type="checkbox"/> SpO ₂ | <input type="checkbox"/> Pre-oxygenate, avoid BMV |
| <input type="checkbox"/> Waveform ETCO ₂ | |

RN EQUIPMENT

- | | |
|--|---|
| <input type="checkbox"/> RSI drugs, back-up drugs | <input type="checkbox"/> Sedative infusions |
| <input type="checkbox"/> COVID Arrest Box | <input type="checkbox"/> NGT/OGT, 60mL syringe to fit NGT |
| <input type="checkbox"/> Dry-erase marker, paper/pen | |

RRT EQUIPMENT

- | | |
|--|---|
| <input type="checkbox"/> BVM with high efficiency filter | <input type="checkbox"/> Tracheal infectious sampling equipment |
| <input type="checkbox"/> Ventilator: HME rather than heated-humidity | <input type="checkbox"/> Kelly clamp |

INTUBATION PROCEDURE

- | | |
|--|--|
| <input type="checkbox"/> Pre-oxygenate with low flow O ₂ | <input type="checkbox"/> First pass success is key |
| <input type="checkbox"/> If necessary, flow inflating bag with: <ul style="list-style-type: none"><input type="checkbox"/> Good seal<input type="checkbox"/> Hydrophobic filter<input type="checkbox"/> Peep at 5cmH₂O<input type="checkbox"/> Spontaneous breaths if possible | <input type="checkbox"/> Most skilled intubator |
| <input type="checkbox"/> Avoid BMV and deep suction, if possible | <input type="checkbox"/> Consider video laryngoscopy |
| <input type="checkbox"/> 2 person mask seal | <input type="checkbox"/> In-line suction, first pass to obtain ETT aspirate |
| | <input type="checkbox"/> Avoid opening circuit, consider clamp |
| | <input type="checkbox"/> Dispose equipment: <ul style="list-style-type: none"><input type="checkbox"/> Remove blue gloves<input type="checkbox"/> Wipe down blade and handle<input type="checkbox"/> Place handle and blade in separately labeled biohazard bags |

TEAM BRIEF

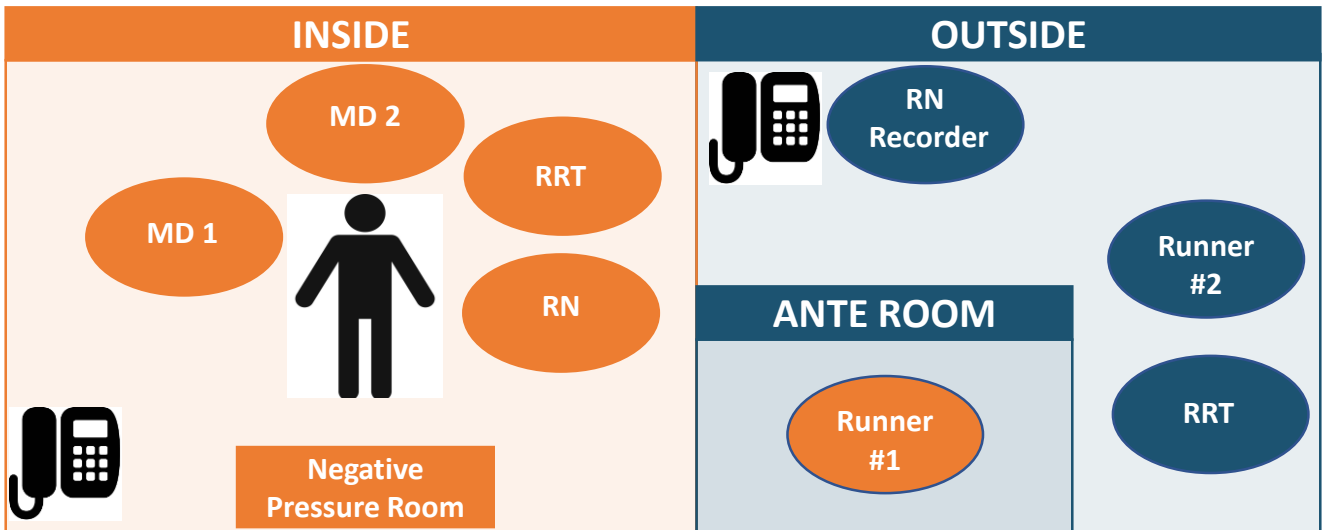
- | | |
|--|---|
| <input type="checkbox"/> Airway assistant briefed on external laryngeal manipulation | <input type="checkbox"/> Difficult laryngoscopy plan briefed
*Tolerate hypoxia |
| <input type="checkbox"/> Airway strategy verbalized | |

CHECKS COMPLETE

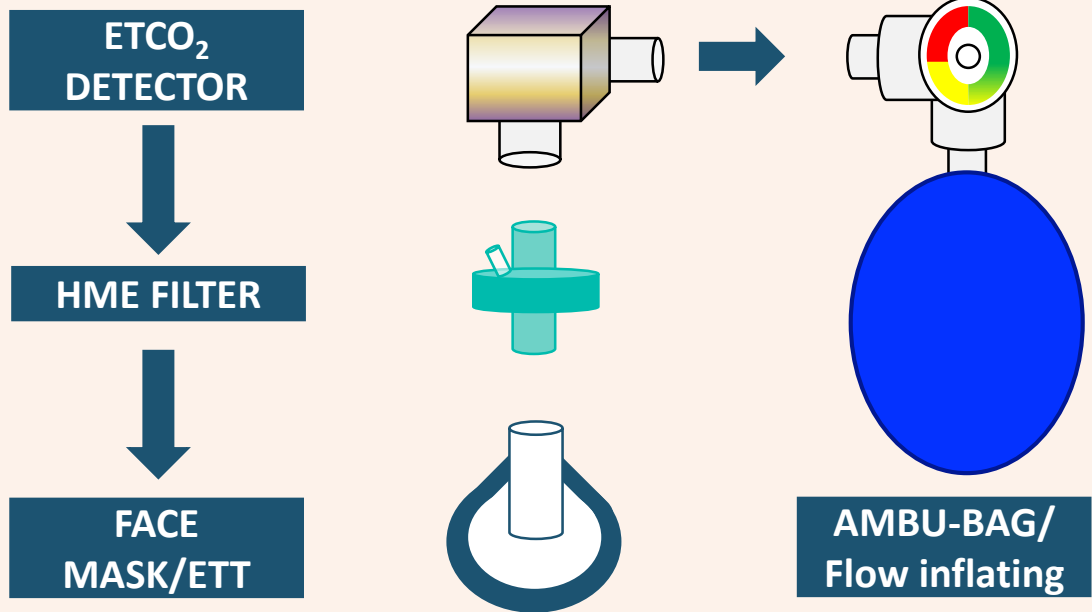
ANESTHETIZING AT _____ : _____

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MAP



CIRCUIT SET-UP



DONNING

1. Hand hygiene
2. Level 4 Gown for Aerosol generating medical procedures (AGMP)
3. N95 Mask
4. Head/Eye Protection (Goggles -> Face shield -> Bouffant)
5. Gloves (long cuff)

DOFFING

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Remove gloves 2. Hand hygiene 3. Remove gown 4. Hand hygiene 5. Remove Head Protection 6. Hand hygiene | <ol style="list-style-type: none"> 7. Remove Eye Protection 8. Hand hygiene 9. Remove N95 Respirator Mask 10. Hand Hygiene |
|--|--|