RESPIRATORY FAILURE PATHWAY FOR LLUMC (ADULTS)

Acute Hypoxic Respiratory Failure

Nasal Cannula

HFNC (CONSIDER ETT)
<30 LPM / peds <20 LPM

• Sat <92% on 30 lpm HFNC (PREG <94%)
• PAO2 < 60 (PREG <70) OR PaCO2 > 60 (PREG >40)
• Tachypnea greater than 30
• Physical exam signs of respiratory distress incl AMS/accessory muscle use/SOB

Endotracheal Intubation
*Team huddle before room entry assign roles*

• PLACE PPE FIRST, PLACE PLASTIC DRAPE ON PATIENT
• NO CPR while intubating
• Pre-ox NC/HFNC/NRB/LIMITED BVM
• RSI
• Video-laryngoscope
• Pre-plan ETT depth
• Place viral filter on ETT
• Inflate ETT cuff before ventilation
• No auscultation, use color CO2 detector
• Minimize suctioning

ARDS
• Manual Proning
• Chemical Paralysis
• Consider NO
• Consider ECMO (48 hrs)

Tidal Volume
4-6 ml/kg ideal body weight
Plateau pressure < 30 cm H2O
Utilize PEEP
Increase RR

BiPap

PPE/Roles BEFORE INTUBATION
ONLY 3 STAFF IN THE ROOM

• PPE observer (unit RN): Stays outside room monitors room access and passes equipment/meds N95
• Intubator (Provider): PAPR, blue gown
• Airway management (RCP): PAPR, blue gown
• Med RN: N95, bouffant, goggles or mask+faceshield on top of N95, blue gown

3 additional staff for Codes see Code Guideline

Avoid
- Bronch
- NIPPV
- Chest PT
- Trach
- Sputum collection

Use
- Viral filter for nebs

Dispose of
- Metal scope blades in glove and double plastic bag

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**INTUBATION ONLY**

- Only 3 staff in the room with 3 PPE bags
- Place PPE first, place plastic drape on PT
- Pre-ox NC/HFNC/NRB/LIMITED BVM
- RSI
- Video-laryngoscope
- Pre-plan ETT depth
- Inflate ETT cuff before ventilation
- Use viral filter
- No auscultation
- Minimize suctioning

**In Room (3): PPE**
- **Intubator (Provider):** Airway
- **Airway management (RCP):** Airway
- **Med RN:** Enhanced
  - *Get help from additional personnel outside*
  - *Utilize medication extension tubing*

**Outside of room:**
- **PPE observer (Unit RN):** N95, stays outside of room monitors room access and passes equipment/meds

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**INTUBATION + CODE BLUE**

- Only 6 staff in the room with 6 PPE bags
- Place PPE first
- Place plastic drape and pads/backboard on PT
- Start CPR + BVM

**In Room (6): PPE**
- **Intubator/Run Code (MD1):** Airway
- **Airway management/compressions (RCP):** Airway
- **Med (RN):** Enhanced
- **Documentation (RN):** Enhanced
- **Assist with Compressions (MD2):** Enhanced
- **Defib/compression (RN):** Enhanced
  - *Utilize extension medications tubing*
  - *Get help from additional personnel outside*

**Consider**
- Ceasing resuscitation after 15-20 min with no ROSC

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**CODE BLUE + PATIENT ALREADY INTUBATED**

- Only 6 staff in the room with 6 PPE bags
- Place PPE first, start CPR
- Place pads/backboard on PT

**Outside of room:**
- **Code Cart**
- **PPE observer (Unit RN):** N95, stays outside of room monitors room access and passes equipment/meds

**In Room (6): PPE**
- **Running Code (MD1):** Enhanced
- **Airway management/compressions (RCP):** Enhanced
- **Med/ (RN):** Enhanced
- **Documentation (RN):** Enhanced
- **Assist with Compressions (MD2):** Enhanced
- **Defib/compression (RN):** Enhanced
  - *Utilize extension medications tubing*
  - *Get help from additional personnel outside*

**Consider**
- Ceasing resuscitation after 15-20 min with no ROSC

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**AFTER CODE (IF NON-COVID UNIT): CODE ATT, PRIMARY ATT, CHARGE RN ADJUDICATE COVID STATUS FOR APPROPRIATE PLACEMENT**