

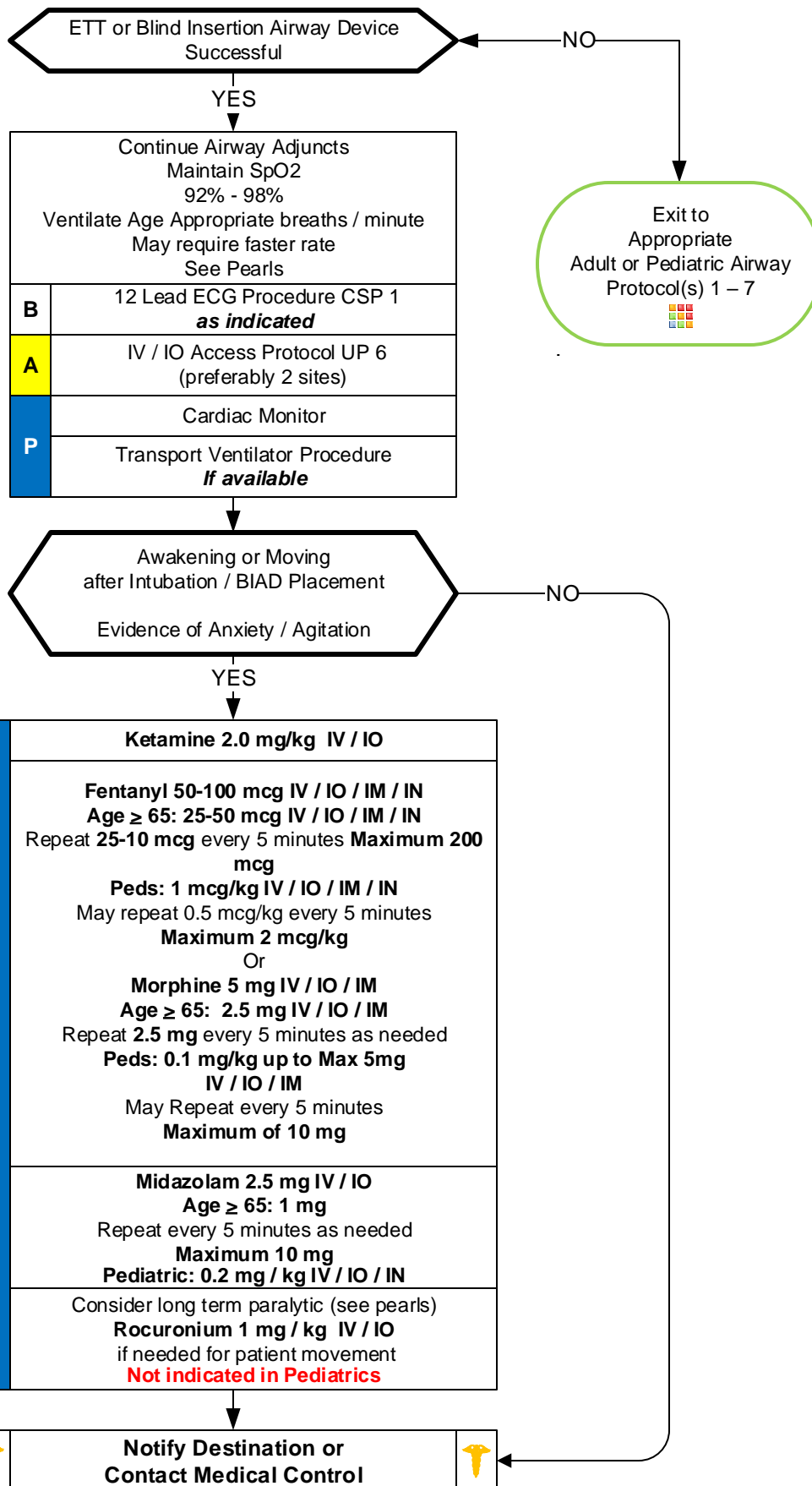
Post-intubation / BIAD Management



Capnography Monitoring

- * End-tidal (EtCO₂) monitoring is mandatory following placement of an endotracheal tube.
- * EtCO₂ monitoring is mandatory following placement of a BIAD once available on scene.

Protocols AR 1, 2, 3, 5, and 6 should be utilized together (even if agency is not using Drug Assisted Airway Protocol) as they contain useful information for airway management.



Post-intubation / BIAD Management



**** Refer to Length-Based Medication Tape for Medication Doses IF pediatric patients weight is unknown ****

Rocuronium may only be administered by technicians who are approved to perform Drug Assisted Intubation by the Harnett County EMS System Medical Director.

Consider Push-Dose Vasopressor Agent for any of the following indications:

1. Indications

- Peri-intubation hypotension
- Post-arrest (post-ROSC) hypotension
- Hypotension requiring initiation of vasopressor drip – prior to drip setup
- Unstable bradycardia (as a supplement to other therapy)

2. Instructions

- Draw up 1mL of 1:10,000 epinephrine
- Waste 1mL of saline from a 10mL saline flush
- Add the 1mL of epinephrine to the remaining 9mL of saline
 - This yields epinephrine in a concentration of 10mcg/mL
- Place a medication added label on this syringe to identify it as a vasopressor
- Administer 10mcg (1mL) every 2 minutes as needed to achieve desired blood pressure or heart rate

Pearls

- * Continuous pulse oximetry and capnography is **MANDATORY**.
- * **Recommended Exam: Mental Status, HEENT, Heart, Lungs, Neuro**
- * **Patients requiring advanced airways and ventilation commonly experience pain and anxiety.**
- * **Unrelieved pain can lead to increased catecholamine release, ischemia, immunosuppression, and prolonged hospitalization.**
- * **Ventilated patients cannot communicate pain/ anxiety and providers are poor at recognizing pain/ anxiety.**
- * **Vital signs such as tachycardia and/ or hypertension can provide clues to inadequate sedation, however they are not always reliable indicators of a patient's lack of adequate sedation.**
- * **Sedation strategy:**
 - Pain is the primary reason patients experience agitation and must be addressed first.
 - Opioids and/ or Ketamine are the first line agents, alone or in combination.
 - Benzodiazepines may be utilized if patient is not responding to adequate opioid and/ or Ketamine doses.
 - Paralysis is considered a last resort, only when patients are not responding to opioid, Ketamine, or benzodiazepines.
 - Patients that have received paralytics may be experiencing pain with no obvious signs or symptoms.
 - Consider sedation early after giving paralytics, especially in patients receiving Rocuronium.
- * **Ventilation rate:**
 - Guidelines: 30 for Neonates, 25 for Toddlers, 20 for School Age, and for Adolescents the normal Adult rate of 10 – 12 per minute.
 - Maintain EtCO₂ between 35 - 45 and avoid hyperventilation.
- * **Ventilator/ Ventilation strategies will need to be tailored to individual patient presentations. Medical director can indicate different strategies above.**
- * In general, ventilation with BVM should cause chest rise. With mechanical ventilation a reasonable tidal volume should be about 6 - 8 mL/kg and peak pressures should be < 30 cmH₂O. Plateau Pressures should be < 30 cmH₂O.
- * Head of bed should be maintained at least 10 – 20 degrees of elevation when possible, to decrease aspiration risk.
- * With abrupt clinical deterioration, if mechanically ventilated, disconnect from ventilator to assess lung compliance.
- * **DOPE: Displaced tracheostomy tube/ ETT, Obstructed tracheostomy tube/ ETT, Pneumothorax and Equipment failure.**