

PROCEDURES PROC-01G

PEDIATRIC DELAYED SEQUENCE INTUBATION

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Indications:

- Unable to maintain or protect an airway
- Impending respiratory failure

Precautions:

- Major facial or laryngeal trauma
- Upper airway obstruction
- Distorted facial or airway anatomy

Procedure:

- Plan
 - o Ensure a supervisor is on scene or enroute
 - o Two, preferably three, authorized providers
 - Utilize DSI Checklist
 - SpO2 >94% for 3 minutes prior to intubation attempt
 - Epinephrine Push-dose mixed/ready
 - Vitals: BGL, CO2, 3-lead
 - Verbalize back-up plan
 - Positioning HOB elevated 15 degrees, ear to sternal notch
 - Review plans/roles
 - Evaluate Airway
 - o Consult
- Preoxygenate
 - Apneic Patient NC 15LPM, BVM 15LPM, PEEP up to 15cmH20
 - Spontaneously Breathing NC 15LPM and NRB 15LPM; or NIV
- Prepare Equipment
 - Suction, BVM, Intubation equipment, SGA, Monitor, Epinephrine Push-dose
- Induction
 - Ketamine 2 mg/kg IV/IO
 - o Consider **Epinephrine** Push-Dose 10mcg q 2 minutes if SBP < [(Age in years x 2) +70]
- Paralysis CONTRAINDICATED IN PEDIATRICS –
- Intubate
 - o Continuously monitor SpO2 and HR. Stop attempts if SpO2 falls below 90%
 - BVM ventilation may be necessary in between attempts to prevent desaturation
 - o 2 attempts per provider (max 4 attempts) are allowed at intubation; use SGA if unsuccessful
 - Consider cricothyroidotomy if unable to intubate and unable to ventilate
- ET Tube Confirmation with WAVEFORM CAPNOGRAPHY
- Post Intubation Sedation
 - Ketamine 2 mg/kg IV/IO. Repeat q 5 minutes PRN
- Post Intubation Paralysis (if needed)
 - o Rocuronium 1 mg/kg IV/IO PRN
 - Not for routine administration
 - Ensure adequate sedation prior to administration



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Considerations:

- Anatomic and Physiologic Features Unique to Children:
 - o Large tongues which may occlude the airway and are difficult to sweep away during intubation.
 - o Small airway diameter. Minimal edema and swelling may obstruct the airway.
 - Short trachea that predisposes for extubation during transport or head extension.
 - o Bimanual manipulation should aid in visualization.
 - o May require ramping to achieve ear to sternal notch.
 - o The epiglottis is soft and "U" or omega shaped.
 - o The pediatric airway approaches the size of an adult airway at age 8 or 9 years of age.
 - o Infants are obligate nose breathers until 2 6 months of age.