OBJECTIVES:
A. To facilitate orotracheal intubation
B. To protect from increased ICP associated with direct laryngoscopy.
C. To reduce the discomfort and trauma of intubation in conscious patients.

INDICATIONS:
Patient meets indications previously noted in the orotracheal intubation protocol AND:
A. Clenched jaw or active gag reflex.
B. Combativeness threatens the airway, spinal cord stability, and/or transport safety.
C. The patient is conscious.

CONTRAINDICATIONS:
A. Inability to ventilate adequately with a bag-valve mask in the event of failed intubation.

PROCEDURE:
A. Prepare, position, and pre-oxygenate as outlined in the orotracheal intubation protocol.

B. Induction agents. Give only one.
   a. Etomidate 0.3 mg/kg IV/IO push. Single max dose of 30 mg.
   b. Ketamine 1-2 mg/kg IV push. Single max dose of 200 mg.
   c. Midazolam 0.1 mg/kg IV/IO push. Single max dose of 10 mg.

C. Paralytic agents. Give only one.
   a. Succinylcholine 1.5 mg/kg IV/IO. See contraindications below.
   b. Rocuronium 1 mg/kg IV/IO.
   c. Vecuronium 0.1 mg/kg IV/IO.

D. Adjuncts
   a. In head injured patients or where there is risk of increased ICP, consider pre-medicating with Lidocaine 1.5 mg/kg slow IV push and/or Fentanyl 1-2 mcg/kg over 30-60 seconds 2-3 minutes prior to intubation.
   b. NO DESAT: Increase nasal cannula oxygen to 15 LPM AFTER medications are given.

E. Assess for apnea and jaw relaxation and gently intubate in a controlled but timely manner when patient becomes relaxed.

F. Confirm ETT placement, reassess vitals and document as outlined in the orotracheal protocol.

G. Continued sedation and analgesia are paramount. Continue paralysis as needed.
   a. Midazolam 0.05-0.1 mg/kg IV. Single max dose of 5 mg.
   b. Ketamine 0.5-1 mg/kg IV.
   c. Fentanyl 1-2 mcg/kg IV.
   d. Rocuronium 0.3-0.5 mg/kg IV.
   e. Vecuronium 0.1 mg/kg IV.

SUCCINYLCHOLINE CONTRAINDICATIONS
A. Crush or burn injuries more than 24 hours old (due to potential for hyperkalemia).
B. Penetrating eye injuries (relative) due to increased intraocular pressure.
C. Medical history including malignant hyperthermia, myasthenia gravis, muscular dystrophy, dialysis patient if potassium level is not known, or hyperkalemia.
D. Hypersensitivity to the drug.

COMMENTS
A. Repeat boluses of Etomidate should NOT be used for maintenance of sedation after intubation secondary to potential adrenal suppression.
B. Consider sedation utilizing Ketamine for those patients in whom difficult airway is suspected or those patients with suspected lower airway obstruction: i.e. status asthmaticus, COPD, or severe bronchiolitis.

COMPLICATIONS
A. Cardiac dysrhythmias.
B. Hyperkalemia.
C. Fasciculations from paralysis.
D. Vomiting and/or aspiration.
E. Esophageal intubation – unrecognized esophageal intubation is a “never event”.
F. Prolonged paralysis & malignant hyperthermia.
G. Oral trauma.

DOCUMENTATION
A. As per Orotracheal Intubation protocol.
B. RSI and sedation/analgesia medications given