Rapid Sequence Intubation

Requirements for RSI program:

- Current NREMT-P/Paramedic certification and other training as required by agency medical director.
- Second provider on scene who is cleared to perform intubation.
- Drugs will only be administered by RSI approved provider. If allowed by agency OMD, intubation may be performed by another qualified intubator under the direct supervision of the RSI approved provider.
- Written approval for each provider by OMD of agency where RSI will be used.
- There will be 100% QI review of patient encounters.
- Maintenance of RSI approval will require continued OMD approval.

Contents of RSI pack:

- Pack to be stored in secured area like drug boxes
  - 2 – Etomidate 20 mg/19g needles
  - 2 – Vecuronium 10mg with filter needles
  - 2 – 10cc sterile water diluent/30 cc syringe
  - 1 – Succinylcholine 200mg/10cc syringes

Indications for RSI:

- RSI may be done under standing orders
- Patients over 18 years of age unless specific permission given prior to procedure by medical command.
- Need for intubation:
  - Burns with suspected significant inhalation injury
  - GCS < 8 related to traumatic injury
  - Acute or impending airway loss (inability to protect airway)
    - RR < 10 or > 30
- No known contraindications to RSI drugs

Procedure:

- Preparation
  - Monitoring (continuous ECG and SpO2, and BP pre- and post-)
  - Monitoring waveform capnography
  - Functional laryngoscope and BVM with high flow oxygen
  - Endotracheal tube(s), stylet, 10cc syringe
  - Alternate airway (i.e. rescue airways and cricothrotomy equipment) immediately available
  - All medications drawn up and labeled
  - Patent IV
  - Assess for difficult intubation: LEMON
  - Suction on and ready
  - Tube confirmation equipment available (EtCO2 + EDD)
• Pre-oxygenation
  o Either 100% oxygen x 5 minutes or 8 vital capacity (deep) breaths on 100% O2
  o Patient on continuous pulse oximeter monitoring
• Paralysis and induction
  o Etomidate 0.3 mg/kg (20 – 30 mg)
  o Ketamine 1-2 mg/kg/IV
  o Succinylcholine 1.5 mg/kg (120mg)
    ▪ **Contraindicated with
      • Burns > 24 hours old
      • Crush injury > 72 hours old
      • Denervation process (i.e. para/quadriplegia)
      • Risk of hyperkalemia (i.e. ESRD)
• Confirmation of placement
  o End-tidal CO2 color change or proper waveform
  o Breath sounds auscultated over lungs, no gastric sounds
  o Secure endotracheal tube, note position
• Post-intubation management
  o Long-term paralytic: Vecuronium 0.1 mg/kg (9mg)
  o Sedation: (May be repeated as indicated)
    ▪ Midazolam 0.1 mg/kg
    ▪ Fentanyl 1-2 mcg/kg
    ▪ Ketamine 1-2mg/kg
  o Continuous waveform capnography
• Paperwork
  o PPCR
  o Airway form
  o RSI form
• Exchange
  o Kit will be exchanged in return for PPCR + Airway form + RSI form ONLY