**Adult Weight-based Analgesics & Sedatives Protocol for the Mechanically Ventilated Patient**

**Intervention Required for Pain Scores between 4 - 10**

(Titrated to RASS of 0 to -2)

**Continuous Infusion**

- Analgesia (Titrate to a Pain Score of 4 or less)
  - Fentanyl (10 mcg/mL) 0.5 - 3 mcg/kg/hr
  - Hydromorphone 0.2 - 0.6 mg IVP q 1 hr
  - Morphine 2 - 4 mg IVP q 1 hr

- Sedation (Titrate to RASS of 0 to -2)
  - Midazolam (1 mg/mL) 0.02 - 0.1 mg/kg/hr
  - Propofol (10 mg/mL) 5 - 50 mcg/kg/min (starting dose is 5 mcg/kg/min)
  - Dexmedetomidine (4 mcg/mL) 0.2 - 1.4 mcg/kg/hr

**PRN**

- Analgesia
  - CHOICES: Fentanyl 25 - 200 mcg IVP q 1 hr
  - Morphine 2 - 4 mg IVP q 1 hr

**Continuous Infusion**

- Analgesia (Titrate to a Pain Score of 4 or less)
  - CHOICES: Fentanyl (10 mcg/mL) 0.5 - 3 mcg/kg/hr
  - Morphine (1 mg/mL) 0.015 - 0.2 mcg/kg/hr
  - Ketamine (5 mg/mL) 2 - 50 mcg/kg/min

**Sedation (Titrate to RASS of 0 to -2)**

- CHOICES: Midazolam (1 mg/mL) 0.02 - 0.1 mg/kg/hr
  - Lorazepam (0.2 mg/1mL) 0.01 - 0.1 mg/kg/hr

**Continuous Sedation**

- If patient receives PRN dosing for 3 consecutive hrs
  - Consider

**DAILY SEDATION INTERRUPTION**

1. Hold both the sedative and analgesic infusions every morning to allow for an accurate neurological assessment.
2. Provider should be immediately called to the bedside to evaluate the patient once there is a change in clinical status including but not limited to agitation, fighting the ventilator, O2 desaturation, or awake and able to follow commands.
3. After the physician or the nurse has evaluated the patient, the infusion(s) THAT ARE NECESSARY for adequate patient sedation and or analgesia is (are) re-started at ½ the previous dose(s) and then titrated up as necessary to the minimal effective dose(s).
4. A spontaneous breathing trial should be done in conjunction with the daily sedation holiday. Please refer to Spontaneous Breathing Trial Protocol for exceptions.

**CONTRAINDICATIONS TO SEDATION INTERRUPTION:**

- Undergoing active treatment for elevated ICP
- Status Epilepticus
- Receiving neuromuscular blocking agents
- Hypoxemia PEEP > 18 or FiO2 > 80% - ARDS

**Patients identified at increased risk of self-extubation should not be turned during the sedation interruption.**

**MD to Bedside to reassess patient**

**Effective Date:** 11/2014

**Revised:** 02/2018