

Initial Date: 5/31/2012

Revised Date: 02/24/2023

Section 7-17



## **Patient Procedural Sedation**

### **Paramedic Use Only**

**Purpose:** Proper sedation of patients requiring a painful medical procedure.

#### **Indications for Sedation**

1. Electrical therapy (cardioversion or transcutaneous pacing)
2. Post intubation sedation
3. CPAP and/or HFNC only under direct Medical Control Order
  - i. **\*\*Ketamine is NOT to be used for this indication**

#### **Contraindications**

1. Inability to control the patient's airway
2. As an adjunct for establishing an airway
3. Known allergy to sedation medications

#### **Assessment**

1. Evaluate adequacy of airway, ventilation, and oxygenation
2. Monitor vital signs and level of consciousness
3. Monitor ECG
4. Monitor pulse oximetry
5. Monitor capnography

#### **Procedure**

1. Maintain airway, provide oxygenation, and support ventilation
2. Obtain vascular access
3. For electrical cardioversion, transcutaneous pacing, and post intubation sedation sedate patient to a level of consciousness where procedure can be performed, per MCA selection
4. Only one MCA authorized sedation medication may be given pre-radio. Medical Control **MUST** be contacted if a different sedation medication is needed subsequent to initial dose (adults and pediatrics).

**Adult Procedural Sedation:**  
(Titrate to minimum amount necessary)

- ☐ **Midazolam** 1-5 mg (0.05 mg/kg) IV/IO titrated slowly (IN, if available); may repeat once in 5 minutes to a maximum of 0.1 mg/kg.
- ☐ **Diazepam** 5-10 mg (0.1 mg/kg) IV/IO titrated slowly, may repeat every 5 minutes to a maximum of 0.3 mg/kg.
- ☐ **Fentanyl** 50-100 mcg (1 mcg/kg) IV/IO titrated slowly (IN, if available); may repeat every 4 minutes to a maximum of 3 mcg/kg.
- ☐ **Ketamine** 4 mg/kg IM or 1.5 mg/kg IV/IO (IN if available) titrated slowly to sedation (max dose 500 mg). NOT for CPAP/HFNO sedation

MCA Name:

MCA Board Approval Date:

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**Michigan**  
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5. For pediatrics, administer MCA selected medications per MI MEDIC cards. If MI MEDIC cards are not available administer as follows per MCA selection.

Pediatric Procedural Sedation:

(Titrate to minimum amount necessary)

- ☐ **Midazolam** 0.05 mg/kg IV/IO titrated slowly (IN, if available); may repeat once in 5 minutes to a maximum of 0.1 mg/kg.
- ☐ **Fentanyl** 1 mcg/kg IV/IO titrated slowly (IN, if available); may repeat every 5 minutes to a maximum of 3 mcg/kg.
- ☐ **Ketamine** 4 mg/kg IM or 1.5 mg/kg IV/IO (IN if available) titrated slowly to sedation. NOT for CPAP/HFNO sedation

Medication Protocols

Diazepam

Fentanyl

Ketamine

Midazolam

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