

Initial Date: 07/19/2023

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Section: 9-34R

## **Midazolam**

**Pharmacological Category:** Antiseizure Agent, Benzodiazepine; Benzodiazepine

**Routes:** IV/IO/IM/IN

### **Indications:**

1. Adult or pediatric seizures
2. Procedural Sedation
3. Severe agitation that prohibits essential assessment and/or treatment

### **Contraindications:**

1. Shock

### **Precautions:**

1. Consider lower range of dosing for Geriatric patients

### **Expected effects:**

1. Seizure cessation
2. Sedation

### **Side effects:**

1. Respiratory depression
2. Hypotension

### **Dosing: ADULT SEIZURES**

Indication: Actively seizing adult patient.

Adults administer:

1. Midazolam 10 mg IM prior to IV start
2. If IV established prior to the need for medication administration, midazolam 5 mg IV/IO
3. If seizure persists repeat midazolam 5mg IV/IO/IM/IN

### **Dosing: HYPERACTIVE DELIRIUM SYNDROME**

Indication: Patients who are uncontrollably agitated despite de-escalation techniques

Adults administer:

1. Midazolam 10 mg IM/IN

### **Dosing: PEDIATRIC SEIZURES**

Indication: Actively seizing pediatric patient.

Pediatrics administer:

1. Midazolam according to MI MEDIC cards
2. If MI MEDIC cards are not available administer:
  - a. Midazolam 0.1 mg/kg IM, maximum individual dose 10 mg.

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- b. If IV established prior to the need for medication administration, administer midazolam 0.05 mg/kg IV/IO. Maximum single dose of 5 mg.
- c. If seizures persisting 10 minutes after initial dose (and correction of low blood glucose if applicable) repeat midazolam one time
  - i. Midazolam 0.1 mg/kg IM. Maximum single dose 10 mg
  - OR**
  - ii. If IV available midazolam 0.05 mg/kg IV/IO maximum single dose of 5 mg.

### **Dosing: PATIENT RESTRAINT**

Indication: when soft restraint placement alone would pose a safety risk or is ineffective in calming the patient

Adults administer:

1. Midazolam 0.1 mg/kg IM/IN. Maximum dose of 10 mg

Pediatrics administer:

1. Midazolam according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Midazolam 0.1 mg/kg IM. Maximum single dose 5mg.

### **Dosing: PATIENT PROCEDURAL SEDATION**

Indication: Sedation titrated to minimum amount necessary for patients requiring a painful medical procedure (i.e., cardioversion, transcutaneous pacing), post intubation sedation, CPAP, or HFNC.

Adults administer:

1. Midazolam 1-5 mg (maximum dose of 0.05 mg/kg) IV/IO titrated slowly or IN. May repeat once in 5 minutes. Maximum total dose 0.1 mg/kg. Titrate to minimum amount necessary.

Pediatrics administer:

1. Midazolam according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Midazolam 0.05 mg/kg IV/IO titrated slowly or IN. May repeat once in 5 minutes to a maximum of 0.1 mg/kg. Titrate to minimum amount necessary.

### Used in the Following Protocols:

Seizures (Section 3 Adult Treatment)

Hyperactive Delirium Syndrome (Section 3 Adult Treatment)

Pediatric Seizures (Section 4 Obstetrics and Pediatrics)

Patient Restraint (Section 7 Procedures)

Patient Procedure Sedation (Section 7 Procedures)