Initial Date: 07/19/2023
Revised Date:

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.

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)