

Initial Date: 07/19/2023 Revised Date: 07/28/2023

# Ketamine

Pharmacological Category: Antidepressant; General Anesthetic

# Routes: IV/IO/IM/IN

#### Indications:

- 1. Pain Management
- 2. Sedation

#### Precautions:

1. Ketamine IV should be diluted to prevent ketamine dissociation.

## **Expected effects:**

- 1. Sedation
- 2. Decreased agitation
- 3. Decreased pain

## Side effects:

- 1. Nausea/vomiting
- 2. Nystagmus
- 3. Dysphoria

#### Notes:

- 1. IM Ketamine has a 3–5-minute onset
- 2. Diluting ketamine
  - a. Mix the patient specific dose into 100 mL NS and administer slow infusion over 5-10 minutes.
- 3. Ketamine is an MCA optional medication and may not be available.

# Dosing: HYPERACTIVE DELIRIUM SYNDROME WITH SEVERE AGITATIONS

Indication: Patients demonstrating signs and symptoms of hyperactive delirium syndrome with severe agitation that are in imminent physical threat to themselves and/or personnel. <u>Adults</u> administer:

1. Ketamine 4 mg/kg IM. Maximum single dose 500 mg

# **Dosing: PAIN MANGEMENT**

Indication: For patients with severe pain (described as 7 or greater on the Wong Pain Scale) <u>Adults</u> administer:

- 1. Ketamine 0.2 mg/kg IV/IO (<u>diluted</u>) slow infusion. Maximum single dose 25 mg.
- 2. Ketamine 0.5 mg/kg IN (undiluted). Maximum single dose 50 mg.
- 3. May repeat after 10 minutes.

MCA Name MCA Board Approval MCA Implementation Date MDHHS Approval: 7/28/23



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#### Pediatrics

- 1. Ketamine according to MI MEDIC cards
- 2. If MI MEDIC cards are not available administer:
  - a. Pediatrics (> 6 years of age and  $\leq$  14 years of age):
    - i. Ketamine 0.2 mg/kg IV/IO (<u>diluted</u>) slow infusion, maximum single dose 7.2 mg
    - ii. Ketamine 0.5 mg/kg IN (undiluted) maximum single dose 18 mg iii.. May repeat after 10 minutes.
  - b. Pediatrics (> 6 months of age and  $\leq$  6 years of age)
    - i. 0.5 mg/kg IN (undiluted) maximum single dose 18 mg
    - ii.. May repeat after 10 minutes.

Used in the Following Protocols

Hyperactive Delirium Syndrome with Severe Agitation (Section 3 Adult Treatment) Pain Management (Section 7 Procedures)