

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

Section: 9-29R

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.

Adults 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)

Adults administer:

1. Ketamine 0.2 mg/kg IV/IO (diluted) 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.

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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 (diluted) 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)

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Ketorolac

Pharmacological Category: Analgesic, Nonopioid; Nonsteroidal Anti-inflammatory Drug (NSAID)

Routes: IM/IV

Indications:

1. Pain management

Contraindications:

1. Allergies to NSAIDs
2. Active labor or women who are breastfeeding
3. Renal impairment
4. Bleeding or high risk of bleeding
5. Pregnancy

Expected effects:

1. Pain Relief

Side effects:

1. Nausea/vomiting
2. Bloating

Dosing: PAIN MANAGEMENT

Adults administer:

1. Ketorolac 15 mg IM/IV

Pediatrics (patients over 5 years of age) administer:

1. Ketorolac according to MI MEDIC cards
2. If MI MEDIC cards are not available administer:
 - a. Ketorolac 1 mg/kg IM/IV. Max dose 15 mg.

Used in the Following Protocols

Pain Management (Section 7 Procedures)