

**Ketamine (Ketalar)**  
**ADMINISTRATIVE CHANGE/EMSAM FEBRUARY 2026**

**ACTION: Dissociative anesthetic**

- N-methyl-Daspartate (NMDA) receptor **agonist** antagonist with a potent anesthetic effect.

INDICATION	ADULT/ PEDIATRIC (3 years and up)
Moderate to severe pain where Ketorolac, Ibuprofen or BLS measures may be insufficient in controlling pain. Allergy to Fentanyl	<ul style="list-style-type: none"><li>• IV/IO 0.25mg/kg in 100ml of NS/D5W Slow infusion over 10 minutes (maximum single dose 30 mg). May repeat every 10 minutes to a total of 60 mg.</li><li>• IN 0.5 mg/kg (maximum single dose 30 mg). May repeat every 10 minutes to a total of 60 mg</li><li>• <del>Max dose for all routes is 30mg.</del></li><li>• <del>Repeat dosing every 20 minutes, up to 2 doses.</del></li></ul>

**CONTRAINDICATIONS:**

- Pregnancy
- Chest pain of cardiac origin
- Hypersensitivity to Ketamine
- Significant head trauma with altered mental status.

**POTENTIAL SIDE EFFECTS:**

<ul style="list-style-type: none"><li>• Dizziness</li><li>• Respiratory depression/Apnea</li><li>• Nausea/vomiting</li><li>• Hypertension</li><li>• Impaired motor function</li><li>• Laryngospasms</li></ul>	<ul style="list-style-type: none"><li>• Drowsiness</li><li>• Psychosis</li><li>• Amnesia</li><li>• Seizures</li></ul>
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**NOTES:**

- DO NOT co-administer Fentanyl and ketamine at the same time. If administering Fentanyl and Ketamine to the same patient, administer 15 minutes after completion of the first dose.
- Cardiac monitoring with SpO<sub>2</sub>, EtCO<sub>2</sub> and monitoring patient's LOC is required