

Pain Management Decision Matrix

Source of Pain	Mild ²	Moderate ²	Severe ²	Special Considerations
Isolated Orthopedic Trauma	Opioid	Opioid	Opioid; Ketamine	Moderate pain relief desired
Multiple Trauma	Opioid	Opioid	Opioid or Ketamine	Moderate pain relief desired
Burns	Toradol and/or Opioid	Toradol and/or Opioid	Toradol and/or Opioid or Ketamine or Benzodiazepine ³	Consider suffering and pain
Renal Colic	Toradol	Toradol	Toradol and/or Opioid; Ketamine	Moderate pain relief desired
Non-cardiac Chest Pain	Toradol	Toradol	Toradol and/or Opioid; Ketamine	Moderate pain relief desired
Abdominal Pain	Opioid	Opioid	Opioid; Ketamine	Moderate pain relief desired
Simple Headache	Toradol	Toradol, Opioid	Opioid	Moderate pain relief desired
Notes:	1. Opioid (Choose either fentanyl or hydromorphone); 2. Evaluate the degree of severity on both the patient's subjective rating (0 – 10) and your objective assessment (mild – severe). 3. Benzodiazepines should be used as an adjunct to pain control for patients with severe burn pain (Choose either midazolam or lorazepam)			

Pain Medication Dosing Matrix

Medication	Initial	Interval	Additional	Max ¹	Cautions
Fentanyl (short acting)	Adults: 25 – 100 mcg Peds (over 2): 1 – 2 mcg/kg IV/IO/IN or 3 mcg/kg IM	10 min.	Adults: 25 – 100 mcg Peds: 1 – 2 mcg/kg	Adults: 300 mcg Peds: May repeat once	Allergy Over sedation, Hypotension Respiratory depression
Hydromorphone (Dilaudid) (Long acting)	Mild: 0.5 mg; Moderate: 1 mg; Severe: 1.5 mg	10 min	0.25 – 0.5 mg	3 mg	Allergy Over sedation, Hypotension Respiratory depression
Ketamine	Slow IVP: 0.1mg/kg (Max 10mg) IV Infusion: 0.3mg/kg in 100mL over 20 minutes (preferred route) IM: 0.5mg/kg (Max 50mg)	10min	Same doses for Slow IVP and IM. No repeat of infusion	3 Slow IVP or IM doses	Allergy
Ketamine	Sedation Dosing: 1mg/kg IV OR 5 mg/kg IM **Medical Control Consultation Required**	Contact Medical Control	Contact Medical Control	NA	Sedation dose is reserved for severely injured patients in appropriate clinical settings ² .
Ketorolac (Toradol)	Adult: 15 mg IV/ 30 mg IM Peds: 1 mg/kg IV/IM (Max 15mg IV, 30mg IM)	10 min	Adult: 15mg IV or 30mg IM	Adult: 30 mg IV or 60 IM Peds: 15 mg IV or 30 IM	NSAID allergy Contraindicated in pregnancy
Midazolam (Versed)	Adults: 1 – 3 mg	10 min	1 – 3 mg	5 mg	Allergy Respiratory depression
Diazepam (Valium)	Mild/Moderate: N/A Severe: 2.5 – 5 mg	10 min	2.5mg – 5 mg	15 mg	Allergy Respiratory depression
Lorazepam (Ativan)	Mild/Moderate: N/A Severe: 1 – 2 mg	10 min	0.5 – 1 mg	4 mg	Allergy Respiratory depression

Notes:	<ol style="list-style-type: none"><li>1. Maximum dose; More may be given as ordered by Medical Control<li>2. Examples: Rapid extrication due to deteriorating condition or imminent environmental threat; straightening a badly angulated or mangled long-bone fracture; severe burn injuries, etc.
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