



# Jackson Hole Fire/EMS

## Operations Manual

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Title: **Medication Protocol:  
Ketorolac**  
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### KETOROLAC (Toradol) (Medication Protocol)

#### PARAMEDIC PROVIDERS

#### STANDING ORDER

**CLASS:** Non-steroidal Anti-inflammatory Drug (NSAID)

**PHARMACOLOGY/ ACTIONS:** May inhibit prostaglandin synthesis. Relieves pain associated with inflammation. Antipyretic agent that does not affect CNS, considered to be a peripheral acting analgesic therefore it does not possess the same sedative properties as a narcotic.

**ONSET/DURATION:** Onset: IV / IO: approx. 30 min  
 Peak effect: IV/ IO: approx. 40–60 min  
 Duration: 4-6 hours

**USE IN FIELD/ INDICATIONS:**

- Moderate to severe pain
- Ideal for colicky pain – gallbladder, kidney stones
- Ideal for narcotic resistant pain, i.e. chronic back pain
- Isolated extremity pain, fracture, dislocation
- Burns without hemodynamic compromise

**CONTRAINDICATIONS:** Known Hypersensitivity to NSAIDS  
 Avoid NSAIDs in women who are pregnant  
 GI bleeding or ulcers  
 Avoid in patients taking anticoagulants, i.e. Coumadin.  
 Avoid in multisystem trauma, head injuries, or unstable vital signs  
 Use with caution in diabetic patients or patients with known kidney disease

**PRECAUTIONS/ SIDE EFFECTS:** Use with caution in pts >65 yo, consider ½ dose  
 Inhibits platelet aggregation and may prolong bleeding time.  
 Nausea & vomiting, drowsiness

**DRUG INTERACTIONS:** Avoid in patients taking anticoagulants, i.e. Coumadin.

**ROUTE:** IV / IO / IM

<b>DOSAGE:</b>	<b>ADULT</b>	<b>PEDIATRIC (&lt;45 kg, &gt;5 yo)</b>
	IV/IO: 15 mg slow push	IV/IO: 0.5 mg/kg (max. 15 mg) slow push
	IM: 30 mg	IM: 1 mg/kg (max. 30 mg)
	May repeat in 6 hours	May repeat in 6 hours

**PREGNANCY SAFETY:** Category C: safety for use not established.

**COMMENTS:** Increased doses will not be more effective.  
Low doses of narcotics may be required to treat breakthrough pain.  
Protect from light.