



Yolo County Emergency Medical Services Agency

Protocols

Revised Date: May 1, 2025

PAIN MANAGEMENT	
Adult	Pediatric
BLS	
Mild Pain	
<p>Assess Vital Signs O₂, titrate SpO₂ to ≥ 94% Provide calming measures Treat underlying cause for pain: reposition, bandage, splint, elevation, traction, compression, and/or cold pack</p>	
ALS	
Moderate to Severe Pain	
Cardiac Monitor, Consider Vascular Access	
<p>Acetaminophen 15 mg/kg IV Infusion</p> <ul style="list-style-type: none">• Administer over 15 minutes• Total max dose 1,000 mg• No repeat <p>Fentanyl 50 mcg SIVP/IM</p> <ul style="list-style-type: none">• IV - May repeat every 5 minutes• IM - May repeat every 10 minutes• Single max dose 50 mcg• Total max dose 200 mcg <p>Ketorolac 15 mg IV/IO or 30 mg IM</p> <ul style="list-style-type: none">• No repeat <p>Ketamine (Ketalar) 0.3mg/kg in 100 mL NS IV Infusion</p> <ul style="list-style-type: none">• Administer over 10 minutes• Single max dose 30 mg• May repeat x 1 after 20 minutes <p>* Ketamine may be administered in addition to Acetaminophen and Fentanyl for severe pain</p>	<p>Acetaminophen 15 mg/kg IV Infusion</p> <ul style="list-style-type: none">• Use a length based pediatric resuscitation tape to determine weight for dosing• Administer over 15 minutes• Total max dose 1,000 mg• No repeat <p>Patients < 4 years – Base Physician contact required for Fentanyl</p> <p>Fentanyl 1 mcg/kg SIVP/IM</p> <ul style="list-style-type: none">• IV - May repeat every 5 minutes• IM - May repeat every 10 minutes• Single max dose 50 mcg• Total max dose 200 mcg <p>Or</p> <p>Fentanyl 1 mcg/kg IN</p> <ul style="list-style-type: none">• ½ dose per nare• May repeat every 10 minutes• Single max dose 50 mcg• Total max dose 200 mcg <p>Ketorolac 0.5 mg/kg IV/IO or IM</p> <ul style="list-style-type: none">• Single max dose 15 mg• No repeat



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ALS (*cont.*)

Contraindications

Acetaminophen

- Liver Disease or complications (e.g., Transplant)

Ketamine (Ketalar)

- RR \leq 12
- SBP \leq 100
- GCS < 15 or agitation

Ketorolac (Toradol)

- Active bleeding
- Age < 4 years old or > 75 years old
- Allergy to Non-Steroidal Anti-inflammatory agents (NSAIDs)
- Current Anticoagulation therapy, not including ASA
- Head Trauma
- History of peptic ulcer disease or GI bleeding
- History of kidney or liver disease or transplant
- Pregnancy

Fentanyl

- SBP < normal range for age
- GCS < 15

Direction

- Contact Base Hospital for additional pain management