

TREATMENT PROTOCOL

S-141

PAIN MANAGEMENT

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BLS ALS

- · Assess level of pain
- · Ice, immobilize, and splint PRN
- Elevation of extremity PRN

- Continue to monitor and reassess pain using standardized pain scores
- Document vital signs before and after each medication administration

Special considerations for all pain medications except acetaminophen

- 1. Changing route of administration requires BHO (e.g., IV to IM or IM to IN)
- 2. Changing analgesic requires BHO (e.g., fentanyl to ketamine)
- 3. Treatment with opioids if SBP <100 mmHg requires BHO
- 4. BHPO required prior to administration if
 - · Isolated head injury
 - Acute onset severe headache
 - Drug/EtOH intoxication
 - Major trauma with GCS <15
 - Suspected active labor

For mild pain (score 1-3), moderate pain (score 4-6), or severe pain (score 7-10)

No severe hepatic impairment, active liver disease or, refusal of opioids

• Acetaminophen 1000 mg IV over 15 min SO

For moderate pain (score 4-6), severe pain (score 7-10)* Fentanyl (IV dosing)

- Up to 100 mcg IV SO
- MR up to 50 mcg IV q5 min x2 SO
- Maximum total SO dose 200 mcg IV

Fentanyl (IN dosing)

- Up to 50 mcg IN q15 min x2 SO
- 3rd dose fentanyl 50 mcg IN BHO

If fentanyl unavailable

Morphine (IV dosing)

- Up to 0.1 mg/kg IV SO
- MR in 5 min at half initial IV dose SO
- MR in additional 5 min at half initial IV dose BHO

Morphine (IM dosing)

- Up to 0.1 mg/kg IM SO
- MR in 15 min at half initial IM dose SO
- MR in additional 15 min at half initial IM dose BHO

Diego County Emergency Medical Services Office Policy / Procedure / Protocol

For moderate to severe pain (score ≥5) with trauma, burns, or envenomation injuries

Ketamine requirements (must meet all)

- ≥15 years old
- GCS of 15
- Not pregnant
- No known or suspected alcohol or drug intoxication

Ketamine (IV dosing)

- 0.2 mg/kg in 100 mL of NS slow IV drip over 15 min SO. Maximum for any IV dose is 20 mg.
- MR x 1 in 15 min if pain remains moderate or severe SO

Ketamine (IN dosing)

- 0.5 mg/kg IN (50 mg/mL concentration) SO. Maximum for any IN dose is 50 mg.
- MR x 1 in 15 min if pain remains moderate or severe SO

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^{*}Also applies to patients with mild pain (score 1-3) who refuse or have contraindications to acetaminophen and ketamine