**TREATMENT PROTOCOL**

**PAIN MANAGEMENT**

**Date:** 7/1/2021  **Page 1 of 2**

<table>
<thead>
<tr>
<th>BLS</th>
<th>ALS</th>
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<tbody>
<tr>
<td>• Assess level of pain</td>
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<tr>
<td>• Ice, immobilize, and splint PRN</td>
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<tr>
<td>• Elevation of extremity PRN</td>
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<tr>
<td>• Continue to monitor and reassess pain using standardized pain scores</td>
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<tr>
<td>• Document vital signs before and after each medication administration</td>
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**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
| 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

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