

## Low-Dose Ketamine for Pain

<b>Purpose</b>	<ul style="list-style-type: none"> <li>Expand multi-modal pain control in specific ED patients through the utilization of Low-Dose Ketamine</li> </ul>
<b>Location</b>	<ul style="list-style-type: none"> <li>All areas of the ED including I-Pod. CDU will not participate at this time</li> </ul>
<b>Included Patient Population</b>	<ul style="list-style-type: none"> <li>Musculoskeletal or soft tissue trauma/pain</li> <li>Chronic pain (current, history of, or chart documentation of)</li> <li>Opioid tolerance or dependence (current, history of, or chart documentation of)</li> <li>Sickle cell vaso-occlusive pain crisis</li> <li>Burns</li> <li>Neuropathic pain</li> <li>Physician discretion</li> </ul>
<b>Excluded Patient</b>	<ul style="list-style-type: none"> <li>Pregnant or breastfeeding women</li> <li>Known or suspected allergy to ketamine</li> <li>Active chest pain, respiratory distress, or acute heart failure</li> <li>Advanced liver disease or cirrhosis</li> <li>Patients &lt;18yo</li> <li>Active psychosis or mental health disturbance, hallucinogenic state or toxic exposure</li> <li>Patients enrolled in research study that precludes participation (e.g. Sickle Cell)</li> </ul>
<b>Possible Patient Population</b>	<p style="text-align: center;"><b>(Ketamine should be used with caution in the following situations)</b></p> <ul style="list-style-type: none"> <li>Severe systemic hypertension (&gt;180/110) or uncontrolled tachycardia</li> <li>Known or suspected traumatic brain injury</li> <li>Known or suspected elevation in intracranial/intraocular pressure</li> <li>Cardiac arrhythmia</li> <li>Ischemic heart disease or heart failure</li> <li>Elderly patients &gt;75yo</li> </ul>
<b>Dosage</b>	<p>0.1 mg/Kg –0.3 mg/Kg  <b>***Maximum dose 0.3 mg per kg</b></p>
<b>Administration of Medication</b>	<ul style="list-style-type: none"> <li>IV: 0.1 mg/Kg –0.3 mg/Kg every 30 minutes for total dose 0.3 mg/Kg</li> <li>May repeat dose every 2 hours</li> <li>Slow IV push over one minute</li> </ul>
<b>Patient Assessment</b>	<p><b>Monitoring</b></p> <ul style="list-style-type: none"> <li><b>Continuous:</b> <ul style="list-style-type: none"> <li>HR, SpO2 and, Cardiac monitoring</li> </ul> </li> <li><b>Monitor every 15 minutes x 1 hour, then every 30 minutes x 1 hour (from the last administration)</b> <ul style="list-style-type: none"> <li>B/P</li> <li>Pain scale</li> <li>Level of Consciousness (LOC) e.g. drowsiness, dysphoria, and hallucinations</li> </ul> </li> <li>Monitor for 1 hour after last dose prior to disposition  <b>***Must document full set of vital signs and assessment of LOC within 30 minutes of departure</b></li> </ul>
<b>Documentation</b>	<ul style="list-style-type: none"> <li>Reason for administration</li> <li>VS</li> <li>LOC</li> <li>Pain Score</li> <li>Cardiac Rhythm</li> </ul>

**\*\*\*REMEMBER to waste upon removal with witness**