

**ORANGE COUNTY EMS AGENCY  
PARAMEDIC PHARMACOLOGY HANDBOOK**

MEDICATION: MORPHINE SULFATE (M.S.)	ADULT DOSE	PEDIATRIC DOSE	SIDE EFFECTS	PRECAUTIONS/COMMENTS
<p><b>CLASSIFICATION:</b> Narcotic Analgesic</p> <p><b>MECHANISM OF ACTION:</b></p> <ul style="list-style-type: none"> <li>• Acts on opiate receptors to block the sensation of pain.</li> <li>• Causes vasodilation.</li> </ul> <p><b>INDICATIONS:</b></p> <ul style="list-style-type: none"> <li>• Isolated skeletal trauma.</li> <li>• Pain associated with acute MI.</li> <li>• Acute pulmonary edema.</li> <li>• Moderate to severe pain.</li> <li>• Burns.</li> </ul> <p><b>CONTRAINDICATIONS:</b></p> <ul style="list-style-type: none"> <li>• Head trauma.</li> <li>• Multiple trauma.</li> <li>• Hypovolemia.</li> </ul> <p><b>DOSAGE FORM:</b></p> <ul style="list-style-type: none"> <li>• 10 mg/10 mL, 10 mL prefilled syringe</li> <li>• 10 mg/1 mL, 1 mL vial</li> </ul>	<p>IVP:</p> <ul style="list-style-type: none"> <li>• 2-20 mg IVP titrated to pain.</li> <li>• 2-10 mg IVP standing order for isolated skeletal trauma or burns.</li> </ul> <p>SQ:</p> <ul style="list-style-type: none"> <li>• 5-10 mg SQ as standing order if unable to establish IV (skeletal trauma or burns).</li> </ul>	<ul style="list-style-type: none"> <li>• 0.1 mg/kg <b>slow</b> IVP.</li> <li>• 0.1 mg/kg SQ to a maximum of 5 mg per dose.</li> </ul>	<ul style="list-style-type: none"> <li>• Hypotension.</li> <li>• Respiratory depression.</li> <li>• Dizziness.</li> </ul>	<ul style="list-style-type: none"> <li>• Consider etiology when administering to patients with abdominal pain.</li> <li>• Have patient rate pain severity using 1-10 scale. In general, treat pain <math>\geq</math> 5.</li> </ul>

*Ben Hym*