



El Dorado County Emergency Medical Services Agency

Quick Reference

Revised Date: July 1, 2020

Medication Profile

Morphine Sulfate
(MS, MSO4)

Class:

Narcotic analgesic

Action:

Produces analgesia by inhibiting the ascending pain pathways.
Depresses the central nervous system by interacting with receptors in the brain.
Causes venous pooling due to peripheral vasodilation resulting in decreased systemic vascular resistance and decreased venous return.

Onset: IV:Immediate
IM: 5-30 minutes

Duration: 3-5 hours
3-5 hours

Adult Administration:

4mg IV/IO or IM titrate to relief of pain. (Max 20mg)
• Doses shall be withheld when systolic BP is less than 100
• For doses above 20mg, base station order is required

Pediatric Administration:

0.05mg/kg slow IV/IO push or IM titrated to pain relief (Max total doses 6mg)
• Contact base station if patient is less than 2 years old

Indications:

Moderate to severe pain
Pain associated with TCP
Snakebite
Chest pain

Contraindications:

Hypersensitivity/allergy
Patients with ALOC
Pain of unknown etiology
Respiratory depression
Head injury
Hypovolemia
BP less than 100
Multi-system Trauma

Side Effects:

Respiratory depression, hypotension, seizures,
bradycardia, ALOC

Pregnancy:

Category C

Notes:

- Morphine is a schedule II medication under the controlled substances act of 1970.
- Morphine should only be used when Fentanyl is not available