**MORPHINE**

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>Opiate, Narcotic analgesic</th>
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<tbody>
<tr>
<td>TRADE NAME(S)</td>
<td>Duramorph, Astromorph</td>
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<tr>
<td>DESIRED EFFECTS</td>
<td>Potent analgesic; CNS depressant; causes peripheral venous dilation, which may decrease myocardial oxygen demand.</td>
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<td>MECHANISM OF ACTION</td>
<td>Binds to opiate receptors in the CNS and decreases the transmission of pain.</td>
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| INDICATIONS             | ▪ Pain relief from acute myocardial infraction  
                          ▪ Severe pain from etiologies such as isolated fractures, kidney stones, or burns |
| CONTRAINDICATIONS       | ▪ Respiratory distress or depression  
                          ▪ Head injury  
                          ▪ Acute bronchospasm or asthma  
                          ▪ Hypovolemic shock |
| ADVERSE REACTIONS       | ▪ CNS depression  
                          ▪ Respiratory depression or arrest  
                          ▪ Bradycardia  
                          ▪ Bronchospasm  
                          ▪ Nausea / vomiting  
                          ▪ Hypotension |
| DRUG INTERACTIONS       | ▪ Other respiratory depressants  
                          ▪ Tricyclics and MAO inhibitors |
| PRECAUTIONS             | ▪ Have naloxone (Narcan) ready for overdose or to reverse toxicity.  
                          ▪ More pronounced effects in elderly patients consider initial lower doses and titrate for effect |
| SPECIAL CONSIDERATIONS  | Morphine can not cause addiction with 1 or 2 doses; therefore, this concern is not a contraindication for its use in the prehospital setting. Do not exceed 10 mg in the field without contacting medical control.  
                          Check and document vital signs between doses. Hold subsequent doses if patient becomes hypotensive for age, respiratory depression occurs and/or level of consciousness diminishes. |
| DOSING REGIMEN          | Adult  
                          ▪ Dose = 0.1 mg/kg, max 5 mg, slow push IV/IO/IM  
                          ▪ Repeat = Every 5 minutes, max cumulative dose 10 mg  
                          Consider 0.05 mg/kg, max 2-5 mg dose for patients > 60 years of age; “Start low, go slow” in elderly patients  
                          -----------------------------------------------  
                          Pediatric  
                          ▪ Dose = 0.1 mg/kg, max 5 mg, slow push IV/IO/IM  
                          ▪ Repeat = Every 5 minutes, max cumulative dose 10 mg |
| PROTOCOL LOCATION       | • Pain Management |

Effective 2/1/2019  
Drug Index  
Morphine