# Naloxone

<table>
<thead>
<tr>
<th>Classification</th>
<th>Narcotic antagonist</th>
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</thead>
<tbody>
<tr>
<td>Trade Name(s)</td>
<td>Narcan</td>
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<tr>
<td>Desired Effects</td>
<td>Reverses the effects of all narcotics</td>
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<tr>
<td>Mechanism of Action</td>
<td>Blocks opioid receptors which prevent narcotics from binding.</td>
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</table>
| Indications          | - Narcotic overdose  
                        - Unresponsiveness of unknown etiology |
| Contraindications    | - Known sensitivity to the drug |
| Adverse Reactions    | - Pulmonary edema    
                        - Severe agitation  
                        - Hypertension      
                        - Dysrhythmias      
                        - Tachycardia       |
| Drug Interactions    | - Incompatible with alkaline solutions |
| Precautions          | - Naloxone does not last as long as narcotics. May precipitate opioid withdrawal syndrome (anxiety, agitation, GI distress, vomiting, diaphoresis, and yawning).  
                        - Naloxone should not be given to patients that have been intubated. Naloxone should be considered prior to securing airway with ET tube. |
| Special Considerations| Naloxone given for heroin or other narcotic overdose may precipitate acute agitation or violent behavior when the patient wakes up. Therefore, administer slowly while observing the patient’s level of consciousness and respiratory status. Naloxone will remain effective for 30-60 minutes; therefore, repeat doses may be required during prolonged transports. |
| Dosing Regimen       | **Adult:**  
                        - 4 mg / 0.1 ml IN for FIRST TWO doses  
                        - 0.4-2.0 mg slow IV/IO push for THIRD and subsequent doses, may repeat q2-3 mins  
                        - Max cumulative dose 12 mg  
                        **Pediatric > 4 kg:**  
                        - 4 mg / 0.1 ml IN for FIRST TWO doses  
                        - 0.4-2.0 mg slow IV/IO push for THIRD and subsequent doses, may repeat q2-3 mins  
                        - Max cumulative dose 12 mg  
                        **Neonates < 4 kg:**  
                        - 0.1 mg/kg Slow IV push or IN  
                        - Max cumulative dose 2mg |
| PROTOCOL LOCATION                      | • Altered LOC  
|                                      | • Toxic Exposure / Poisoning / OD |