



## PEDIATRIC POISONING AND OVERDOSE

**Effective:** January 1, 2021  
**Replaces:** January 1, 2020  
**Review:** January 1, 2023

### 1. BLS Treatment

- 1.1. Routine Medical Care – Pediatric (**700-S05**)
- 1.2. Secure patient's airway as appropriate (**700-M01**)
  - 1.2.1. **Oxygen** – titrate as appropriate
- 1.3. **Blood Glucose Level (BGL)**
- 1.4. Determine the substance and/or dosage of the overdose
- 1.5. If Narcotics or Opioids are suspected:
  - 1.5.1. **Naloxone Intranasal Autoinjector** (EMT-B only), single dose only
  - 1.5.2. If ALS is on scene, Naloxone should be given IV or IM by ALS provider

### 2. ALS Treatment

- 2.1. **Vascular Access (IV)**, TKO
- 2.2. **Vascular Access (IO)**, if patient is unconscious
- 2.3. Utilize length-based resuscitation tape to determine patient weight

### 3. General Ingestion

- 3.1. Patients less than 1 year old and time of ingestion is less than 1 hour:
  - 3.1.1. **Activated Charcoal 1g/kg PO**, max dose 25gm
- 3.2. Patients greater than 1 year old and if time of ingestion is less than 1 hour:
  - 3.2.1. **Activated Charcoal 25g PO**
- 3.3. Charcoal is contraindicated if patient lacks gag reflex and cannot self-administer, or has ingested substance(s) not bound by charcoal; such as: caustics, lithium, metals, ethylene glycol, iron, methanol, other alcohols, or hydrocarbons

### 4. Narcotics / Opioids

- 4.1. **Naloxone 0.1mg/kg IV / IM**, titrate to effect, may repeat twice every 2-3 minutes, max dose 5mg, methadone overdose may require repeated doses

### 5. Tri-Cyclic Anti-Depressants (Amitriptyline, Doxepin, Nortriptyline)

- 5.1. **Sodium Bicarbonate 1mEq/kg IV, IO** max dose 100mEq, for hypotensive (SBP 90mmHg or less), has seizure and/or a QRS widening greater than 0.12 seconds

### 6. Organophosphates/ Cholinergics / Pesticides

- 6.1. **Atropine 0.02mg/kg IV, IO** max single dose of 1 mg, repeat every 5 minutes until asymptomatic, multi dose vial should be used, if available

### 7. Dystonic Reactions

- 7.1. Administer **Diphenhydramine 1mg/kg IV / IM**, max dose 50mg

### 8. Calcium Channel Blockers (Diltiazem, Verapamil, Nifedipine)

- 8.1. **Glucagon 0.05mg/kg IM**, repeat to a total dose of 1mg
- 8.2. **Calcium Chloride 10% 20mg/kg IV, IO** give over several minutes for persistent hypotension or symptomatic bradycardia, max dose 2gm
- 8.3. **Atropine 0.02mg/kg IV**, min dose 0.1mg, max dose 1mg, for symptomatic bradycardia



**9. Beta Blockers (Atenolol, Metoprolol, Nadolol)**

- 9.1. **Glucagon 0.05mg/kg IM**, may repeat to a total dose of 1mg
- 9.2. **Atropine 0.02mg/kg IV, IO** min dose 0.1mg, max dose 1mg, for symptomatic bradycardia