



# RX

This document is for **reference only**. Please refer to SWO's for specific indications, dosages, and applications

DRUG: ATROPINE SULFATE

## Dosage:

### Adults:

- Symptomatic Bradycardia: **IV**: 0.5 mg to 1 mg every 3-5 minutes.  
**Max dose**: 0.04 mg/kg (full vagal blockade).
- Poisonings: **IV/IM/ETT/IO**: 1-2 mg as needed to decrease cholinergic symptoms.

**AUTOINJECTOR (MARK 1 KIT): 2 mg**

### Pediatrics:

- Symptomatic Bradycardias: **IV/IO**: 0.02 mg/kg repeated every 3-5 minutes as needed.  
Child: Minimum—0.1 mg Maximum—0.5 mg  
Adolescent: Minimum—0.1 mg Maximum—1 mg  
**ETT**: 2-3 times the IV dose diluted in 3-5 ml NS
- Poisonings: **IV/IM**: 0.05 mg/kg IV every 3-5 minutes as needed to decrease cholinergic symptoms.
- Pediatric Pre-Intubation: **IV/IO**: 0.02 mg/kg

## Onset:

- Rapid

## Duration:

- 2-6 hours

## Side Effects:

- Anticholinergic Effects: Remember the mnemonic:  
**DRY AS A BONE**—Dry mucous membranes, urinary retention, constipation  
**MAD AS A HATTER**—Restlessness, tachycardia, palpitations, HA, dizziness  
**RED AS A BEET**—Flushed, hot, & dry skin  
**BLIND AS A BAT**—Pupillary dilation (mydriasis), blurred vision (cycloplegia), photophobia
- Tachydysrhythmias, Ventricular Tachycardia/Fibrillation
- Of course...N/V

## Interactions:

- Anticholinergics increase vagal blockade.
- Potential adverse effects when administered with digitalis, cholinergics, neostigmine.
- Enhanced effects are possible with antihistamines, procainamide, quinidine, antipsychotics, antidepressants, benzodiazepines, phenothiazines.
- When administered too soon after NaHCO<sub>3</sub> (i.e. Without allowing sufficient fluid to flush the line), a precipitate will form.

**REFERENCE ONLY**



**PEARLS:**

- **To recognize cholinergic poisonings remember the SLUDGE, DUMBELS, and Days of the week mnemonics.**
- **Pushing a less than the minimum dose or pushing atropine too slowly may elicit a paradoxical bradycardia.**
- **Remember most bradycardias in pediatrics are a result of hypoxia/hypoxemia rather than a primary cardiac problem. Ventilation is always preferred over pharmacological intervention.**
- **Avoid being splashed in the eyes with atropine.**
- **Be prepared, on physician order, to deliver massive amounts (10-40mg) in the setting of cholinergic poisoning.**

*Mnemonics for nerve agent/organophosphate/Carbamate exposure*

<p><b>“S.L.U.D.G.E.”</b></p> <p>Salivation (excessive production of saliva)</p> <p>Lacrimation (excessive tearing)</p> <p>Urination (uncontrolled urine production)</p> <p>Defecation (uncontrolled bowel movement)</p> <p>Gastrointestinal distress (cramps)</p> <p>Emesis (excessive vomiting)</p>	<p><b>“D.U.M.B.E.L.S.” (Muscarinic)</b></p> <p>Diarrhea</p> <p>Urination</p> <p>Miosis</p> <p>Bradycardia/Bronchospasm/Bronchorrhea</p> <p>Emesis</p> <p>Lacrimation</p> <p>Salivation, Secretion, Sweating</p>
<p><b>“B.A.M.”</b></p> <p>Breathing Difficulty (wheezing)</p> <p>Arrhythmias (Bradycardia, ventr. Arrhythmias, AV Blocks. )</p> <p>Miosis (pinpoint pupils)</p>	<p><b>Days of the Week (Nicotinic)</b></p> <p>Mydriasis</p> <p>Tachycardia</p> <p>Weakness</p> <p>Hypertension, Hyperglycemia</p> <p>Fasciculations</p>
<p><b>“Three C’s” of CNS effects</b></p> <p>Confusion</p> <p>Convulsions</p> <p>Coma</p>	

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