



# Jackson Hole Fire/EMS Operations Manual

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Title: **Medication Protocol:  
Atropine**

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## Atropine (Medication Protocol)

### EMT-INTERMEDIATE PROVIDERS

**IT IS UNDERSTOOD THAT THIS MEDICATION MAY BE ADMINISTERED ONLY AFTER VOICE AUTHORIZATION HAS BEEN GRANTED EITHER BY A WYOMING LICENSED PHYSICIAN OR A PHYSICIAN SUPPORT PERSON (PA) ACTING AS THE AGENT OF A WYOMING LICENSED PHYSICIAN, OR BY A WYOMING LICENSED REGISTERED NURSE; RELAYING THE AUTHORIZATION FROM A WYOMING LICENSED PHYSICIAN WITH WHOM THE NURSE HAS DIRECT COMMUNICATIONS VIA RADIO OR TELEPHONE.**

### PARAMEDIC PROVIDERS

#### STANDING ORDER

**CLASS:** Anticholinergic (parasympatholytic)

**PHARMACOLOGY/  
ACTIONS:** Atropine acts by blocking acetylcholine receptors, thus inhibiting parasympathetic stimulation. Antagonizes excess muscarinic receptor stimulation caused by organophosphate insecticides or chemical nerve agents (e.g., sarin).

**ONSET/DURATION:** Onset: immediate Duration: 2 - 6 hours

**USE IN FIELD/  
INDICATIONS:** Hemodynamically significant bradycardia, Organophosphate or nerve gas poisoning

**CONTRAINDICATIONS:** Tachycardia, hypersensitivity

**SIDE EFFECTS:** Blurred vision, dilated pupils, dry mouth, tachycardia, drowsiness, and confusion

**DRUG INTERACTIONS:** There are few interactions in the prehospital setting

**ROUTE:** IV, IO

**DOSAGE:** ADULT PEDIATRIC (<45 kg)

**SYSTOMATIC BRADYCARDIA**

1 mg IV/IO Repeat every 3-5 min. for a maximum dose of 3 mg.	0.02 mg/kg IV/IO (0.1 mg min / 1.0 mg max) Repeat in 5 min. to a max dose of 0.04 mg/kg.
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**Anti-cholinesterase Poisoning**

1-2 mg IV/IO push every 5-15 min until atropine effects are observed.	0.02 mg/kg IV/IO (0.1 mg min / 1.0 max) Repeat in 5-15 min until atropine effects are observed.
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**PREGNANCY SAFETY:** Category C – give only if potential benefits justifies risk to fetus

**COMMENTS:** May worsen bradycardia associated with second-degree Mobitz II and third-degree AV blocks.  
A maximum dose of 0.04 mg/kg should not be exceeded except in the case of organophosphate poisoning.