Classification
Anticholinergic

Prehospital Indications
Cardiac Dysrhythmia: symptomatic bradycardia in adults; suspected AV Block or increased vagal tone in pediatrics
Hazmat exposure: organophosphate/pesticide/nerve agent poisoning with heart rate < 60 bpm, respiratory depression and/or extreme salivation

Other Common Indications
End-of-life care, to dry secretions for patient comfort
Eye disorders requiring mydriasis (pupillary dilation) for treatment/testing, administered as eye drop
GI disorders caused by hypermotility (chronic diarrhea, irritable bowel syndrome)

Adult Dose
Cardiac Dysrhythmia
0.5mg (5mL) IV/IO push repeat every 3-5 min prn, maximum total dose 3mg
Organophosphate poisoning
2mg (20mL) IV/IM/IO, may repeat every 5 min until patient is asymptomatic

Pediatric Dose
Cardiac Dysrhythmia
0.02mg/kg (0.1mg/mL) IV/IO, dose per MCG 1309, may repeat x1 in 5 min
Organophosphate poisoning
0.05mg/kg (0.1mg/mL) IV/IM, may be repeated every 5 min, maximum total dose 5mg

Mechanism of Action
Competitively inhibits action of acetylcholine on autonomic effectors innervated by postganglionic nerves

Pharmacokinetics
Peak effect in 20-30 min IM, 2-4 min IV/IO, duration 4 hr

Contraindications
Glaucoma
Tachycardia
Thyrotoxicosis

Interactions
None for IV/IM/IO administration

Adverse Effects
Dry mouth / Thirst
Dysrhythmias
Flushed dry skin
Hypertension / Hypotension
Hyperthermia
Increased intraocular pressure
Mydriasis (pupil dilation)

Prehospital Considerations
• Use cautiously if myocardial infarction and/or ischemia is suspected, as atropine will increase myocardial O₂ demand, which may worsen the infarct.
• Bradycardia due to 2nd degree type II and 3rd degree heart blocks will not improve with atropine; if treatment indicated, transcutaneous pacing (TCP) should be performed.