**Class and Action:** Anticholinergic, antiarrhythmic; works by blocking acetylcholine receptors and being a beta 2 agonist as well.

**Indications:** Bradycardia, organophosphate poisoning

**Contraindications:** Hypersensitivity, tachycardia, acute narrow angle glaucoma, thyrotoxicosis, obstructive disease of GI/GU tract

**Side Effects:** Tachycardia, paradoxical bradycardia, palpitations, dysrhythmias, headache, vertigo, dry mouth, vision disturbance, N/V, flushed/dry/hot skin, allergic reaction.

**Drug Interactions:** Maybe enhanced by antihistamines, Procainamide, anti-psychotics, and anti-depressants. Potentiated by other anticholinergics.

**Onset, Duration, and Routes:** Onset is immediate with a duration of 2-6 hours. Routes include IV, ET, IO

**Adult Dose:**
- Bradycardia 0.5 mg IV/IO - can be repeated every 3-5 minutes, max 3 mg
- Organophosphate Poisoning 2 mg IV/IO - repeat every 5 minutes, max 10 mg

**Pediatric Dose:**
- Bradycardia 0.02 mg/kg, minimum dose 0.1 mg and maximum single dose of 0.5 mg. Max total 3 mg
- Organophosphate poisoning - contact medical control

**WDM EMS Protocols:**
B2. Bradycardia  
C9. Poisoning/Overdose  
D4. Pediatric Bradycardia

**Special Considerations:**