

CLASS: A

PROTOCOL(S) USED IN: Cardiac Dysrhythmia Bradycardia, Poisoning & Overdose, RSI (Pediatric), Organophosphates

PHARMACOLOGY AND ACTIONS:

- A. Muscarine-cholinergic blocking agent.
- B. Increases heart rate by blocking vagal response.
- C. Increases conduction through A-V node and increases ventricular sensitivity to atrial impulses.
- D. Reduces motility and tone of GI tract.
- E. Reduces action and tone of bladder which may cause urinary retention.
- F. Dilates pupils.

INDICATIONS:

- A. Symptomatic bradycardias, 2nd and 3rd degree heart blocks and pacemaker failure.
- B. Sustained bradycardia induced during pediatric RSI
- C. Organophosphate and nerve gas poisoning.

CONTRAINDICATIONS:

- A. Atrial fibrillation and atrial flutter
- B. Glaucoma

SIDE EFFECTS AND NOTES:

- A. Bradycardia may be beneficial in the AMI setting. Administer only if there are signs of hypoperfusion (chest pain, low blood perfusion, altered mental status).
- B. In organophosphate poisoning, massive doses of 10-20 mg or more may be needed.
- C. Titrate dose by watching patient response.

ADULT DOSING:

Symptomatic Bradycardia:

1 mg IV/IO push, repeat prn in 3-5 minute intervals to a maximum dose of 3 mg.

Organophosphate Poisoning:

1-5 mg IV/IO push. Doses should be repeated every 5 minutes until excessive secretions and sweating have been controlled

PEDIATRIC DOSING:

Symptomatic Bradycardia:

0.02 mg/kg IV/IO Minimum single dose 0.1 mg, maximum single dose 1 mg. If no IV/IO may give 0.04 mg/kg ET. May repeat once.