

ATROPINE

Indications:

- Symptomatic Bradycardia (if TCP is not immediately available)
- Organophosphate poisoning

Contraindications:

- A-Fib
- A-Flutter
- May be useful in Blocks caused by Digoxin

Precautions:

- Slow administration of atropine can cause paradoxical bradycardia

Side effects:

- Pupil dilation
- Tachycardia
- V-Tach/V-Fib
- HA,
- Dry mouth

Class: Parasympatholytic, Anticholinergic

Mechanism of Action: Competitive antagonist that selectively blocks all muscarinic responses to acetylcholine. Blocks vagal impulses, thereby increasing SA node discharge, thereby enhancing AV conduction and cardiac output. Potent antisecretory effects caused by the blocking of acetylcholine at the muscarinic site. Atropine is also useful in the treatment of the symptoms associated with nerve agent poisoning. Rapid onset, peak in 2-4m IV, half-life 2-3h.

Concentration: 1.0 mg/10.0 ml

Dosage:

Adult:

- **Symptomatic Bradycardia**
0.5 mg IV/IO
May repeat to a total dose of 3.0 mg
- **Organophosphate Poisoning**
Contact Medical Control

Pediatric:

- **Symptomatic Bradycardia**
0.02 mg/kg,
Maximum 0.5 mg (single dose)

ATROPINE cont.

May repeat once if increased vagal tone or primary AV block.

- **Organophosphate Poisoning**
Contact Medical Control

Pediatric 1st Dose:

| | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| 3KG | 4KG | 5KG | 6KG | 7KG | 8KG | 9KG | 10KG | 11KG | 12KG | 13KG |
| 0.6ml | 0.8ml | 1.0ml | 1.2ml | 1.4ml | 1.6ml | 1.8ml | 2.0ml | 2.2ml | 2.4ml | 2.6ml |

| | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 14KG | 15KG | 16KG | 17KG | 18KG | 19KG | 20KG | 21KG | 22KG | 23KG | 24KG |
| 2.8ml | 3.0ml | 3.2ml | 3.4ml | 3.6ml | 3.8ml | 4.0ml | 4.2ml | 4.4ml | 4.6ml | 4.8ml |

| | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 25KG | 26KG | 27KG | 28KG | 29KG | 30KG | 31KG | 32KG | 33KG | 34KG | 35KG |
| 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml |

| |
|-------------|
| 36KG |
| 5.0ml |

Pediatric 2nd Dose (if needed):

| | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| 3KG | 4KG | 5KG | 6KG | 7KG | 8KG | 9KG | 10KG | 11KG | 12KG | 13KG |
| 0.6ml | 0.8ml | 1.0ml | 1.2ml | 1.4ml | 1.6ml | 1.8ml | 2.0ml | 2.2ml | 2.4ml | 2.6ml |

| | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 14KG | 15KG | 16KG | 17KG | 18KG | 19KG | 20KG | 21KG | 22KG | 23KG | 24KG |
| 2.8ml | 3.0ml | 3.2ml | 3.4ml | 3.6ml | 3.8ml | 4.0ml | 4.2ml | 4.4ml | 4.6ml | 4.8ml |

| | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 25KG | 26KG | 27KG | 28KG | 29KG | 30KG | 31KG | 32KG | 33KG | 34KG | 35KG |
| 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml | 5.0ml |

| |
|-------------|
| 36KG |
| 5.0ml |