

**Classification**

Cholinesterase Reactivator

**Prehospital Indications**

HAZMAT Exposure: nerve agent or organophosphate poisoning

**Other Common Indications**

Antidote to toxicity from agents (neostigmine, pyridostigmine) used in treatment of myasthenia gravis

**Adult Dose**

Given in conjunction with atropine as a DuoDote injection – Atropine 2.1mg and Pralidoxime Chloride 600mg (2PAMCI). Medications delivered sequentially by one syringe into 2 different areas of the muscle.

Mild Exposure **DuoDote™ IM x1**

Moderate Exposure **DuoDote™ IM x2**, one after another

Severe Exposure **DuoDote™ IM x3**, one after another

**Pediatric Dose**

Pediatric patients **longer** than the length-based resuscitation tape (Broselow™) should receive adult dose  
Pediatric patients **between 3-36kg** body weight, based on measurement using the length-based resuscitation tape (Broselow™), should be treated as follows:

Mild Exposure **Atropine (0.1mg/mL) 0.02mg/kg IV/IM**, dose as per *MCG 1309*

Moderate Exposure **1 DuoDote™ IM**

Severe Exposure **1 or 2 DuoDote(s)™ IM**, one after the other when applicable, based on the table below:

| Avg. Wt. (kg) | Color  | Initial Emergency Dose |
|---------------|--------|------------------------|
| 4             | Grey   | 1 DuoDote™             |
| 6.5           | Pink   |                        |
| 8.5           | Red    |                        |
| 10.5          | Purple |                        |
| 13            | Yellow |                        |
| 16.5          | White  |                        |
| 20.5          | Blue   |                        |
| 26            | Orange | 2 DuoDotes™            |
| 33            | Green  |                        |

**Mechanism of Action**

Reactivates cholinesterase by displacing the enzyme from its receptor sites. The free enzyme then can resume its function of degrading accumulated acetylcholine, thereby restoring normal neuromuscular transmission. Pralidoxime also detoxifies some organophosphates by direct chemical reaction.

**Pharmacokinetics**

Onset is 2-3 min; peak effect in 5-15 min; duration is 2-3 hr

**Contraindications**

Poisonings with carbamate insecticide Sevin, inorganic phosphates, organophosphates with no anticholinesterase

**Interactions**

None

**Adverse Effects**

- Dizziness
- Blurred vision
- Hypertension
- Laryngospasm
- Tachycardia