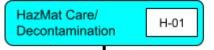


Examples: Malathion, parathion, ethion, bendiocarb, aldicarb, sarin & VX nerve agents

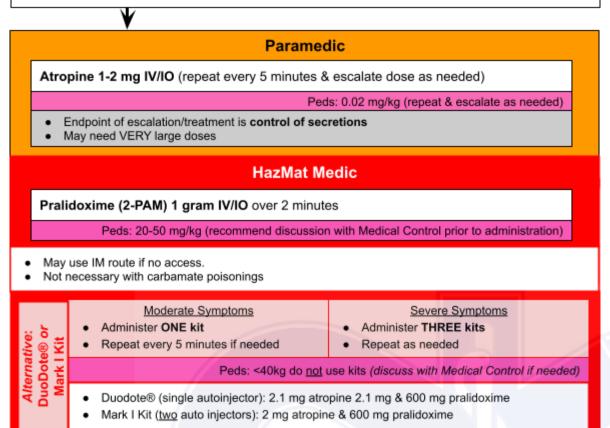
Indication for concern/treatment:

- Possible exposure → commonly found in **insecticides** or possible WMDs, <u>and</u>
- Cholinergic toxidrome: Pinpoint pupils, slow heart rate & drowning in their own secretions



Aggressive Respiratory & Hemodynamic Support:

- 100% O₂ & early Endotracheal Intubation if significantly altered mental status, per Airway/O2 Maintenance [A-01] and DAI/RSI [A-04].
- IV/IO Access, Fluid Resuscitation and Vasopressors, per IV Protocol [1-03] and Medical Shock [M-06].



H-10
ORGANOPHOSPHATES
& CARBAMATES

Includes: Nerve Gas Exposure



Cholinergic Toxidrome (commonly seen symptoms):		
DUMBELS	SLUDGE-M	
D – Diarrhea U – Urination M – Miosis (Pinpoint pupils) B – Bronchospasm, bradycardia, bronchorrhea E – Emesis L – Lacrimation S – Salivation	S – Salivation L – Lacrimation U – Urination D – Diarrhea G – Gastro-intestinal pain & hyperactivity E – Emesis M – Miosis (Pinpoint pupils)	
Essentially: Pinpoint pupils, slow heart rate & drowning in their own secretions		

KEY POINTS:

- May be inhaled, ingested, or absorbed through the skin..
- Binds with the acetylcholinesterase, initially causing excitation of nerve conduction and then paralysis.
- Not all pesticides are considered organophosphates or carbamates. In addition, Carbamates tend to be less severe and self limiting and requires less aggressive treatment.
- Atropine should be titrated to clinical effect.
- 2-PAM.....

SPECIAL SITUATIONS:

• Seizures: Treat with Versed (midazolam) or Ativan (lorazepam) as per Seizure guideline [M-09].

NOTE: Poison Control may be contacted **[1-800-222-1222]** for **INFORMATION ONLY.** Treatment modalities must utilize these guidelines, or may be received received through online Medical Control.