History
- Exposure to chemical, biologic, radiologic, or nuclear hazard
- Potential exposure to unknown substance/hazard

Signs and Symptoms
- Visual Disturbances
- Headache
- Nausea/Vomiting
- Salivation
- Lacrimation
- Respiratory Distress
- Diaphoresis
- Seizure Activity
- Respiratory Arrest

Differential
- Nerve agent exposure (e.g., VX, Sarin, Soman, etc.)
- Organophosphate exposure (pesticide)
- Vesicant exposure (e.g., Mustard Gas, etc.)
- Respiratory Irritant Exposure (e.g., Hydrogen Sulfide, Ammonia, Chlorine, etc.)

Ensure Scene Safety and Proper PPE

Universal Patient Care Protocol

Obtain history of exposure
Observe for specific toxidromes
Initiate triage and/or decontamination as indicated.

Assess for presence of major or minor symptoms. There must be symptoms before treatment.

Minor Symptoms:
Salivation, Lacrimation, Visual Disturbances

IV Protocol
Atropine 2 mg IV/IM q 5 min (0.02-0.05 mg/kg)
until symptoms resolve

Pralidoxime 2 grams (15-25 mg/kg for Peds)
IV over 30 minutes

Monitor for appearance of major symptoms

Notify Destination or Contact MC

Major Symptoms:
Altered Mental Status, Seizures, Respiratory Distress, Respiratory Arrest

Nerve Agent Kit IM
X 3 rapidly
(See Pediatric Doses Below)

IV Protocol
If Seizures:
Midazolam (IV/IM)
Lorazepam (IV/IM)

Atropine
2 mg IV/IM q 5 min
(0.02-0.05 mg/kg)
until symptoms resolve

Pearls
- In the face of a bona fide attack, begin with 1 Nerve Agent Kit for patients less than 7 years of age, 2 Nerve Agent Kits from 8 to 14 years of age, and 3 Nerve Agent Kits for patients 15 years of age and over.
- If Triage/MCI issues exhaust supply of Nerve Agent Kits, use pediatric atropens (if available). Use the 0.5 mg dose if patient is less than 40 pounds (18 kg), 1 mg dose if patient weighs between 40 to 90 pounds (18 to 40 kg), and 2 mg dose for patients greater than 90 pounds (>40 kg).
- Follow local HAZMAT protocols for decontamination and use of personal protective equipment.
- For patients with major symptoms, there is no limit for atropine dosing.
- Carefully evaluate patients to ensure they are not from exposure to another agent (e.g., narcotics, vesicants, etc.)
- Each Nerve Agent Kit contains 600 mg of Pralidoxime (2-PAM) and 2 mg of Atropine
- The main symptom that the atropine addresses is excessive secretions so atropine should be given until salivation improves.