

#### **Nerve Agent Treatment**

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## Refer to S-SV EMS Hazardous Material Incidents Policy (836)

## Important caveats for medical responders:

- EMS personnel shall not enter or provide treatment in the Contamination Reduction Zone (Warm Zone) or Exclusion Zone (Hot Zone) unless trained, equipped and authorized to do so.
- EMS personnel shall not use Haz Mat specific personal protective equipment (PPE), including self-contained breathing apparatus (SCBA), unless trained, fit tested and authorized to do so.
- Do not transport pts until they have been completely decontaminated. If transport personnel become contaminated, they shall immediately undergo decontamination.

## Treatment notes:

- A base/modified base hospital physician order must be obtained prior to utilizing this protocol for pt treatment. Once an order is obtained, the entire protocol becomes a standing order that applies to all authorized/trained EMS personnel operating at the incident.
- Atropine (2mg) and pralidoxime chloride (600mg) auto-injectors included in MARK I/DuoDote nerve agent antidote kits shall only be used by authorized/trained EMS personnel.
- Paramedics may administer atropine and/or pralidoxime chloride IM/IV in situations where autoinjector nerve agent antidote kits are not available.
- EMS personnel may self-administer nerve agent antidote kits when authorized/trained to do so.
- Adult auto-injectors are not to be used in children under 40 Kg.
- Nerve agent antidote medications are only given if the pt is showing signs & symptoms of nerve agent poisoning, they are not to be given prophylactically. A decrease in bronchospasm and respiratory secretions are the best indicators of a positive response to atropine and pralidoxime.

## Signs/Symptoms of Nerve Agent Exposure (mild to severe)

- 1. Runny nose
- 2. Chest tightness
- 3. Difficulty breathing
- 4. Bronchospasm
- 5. Pinpoint pupils/blurred vision
- 6. Drooling
- 7. Excessive sweating
- 8. Nausea/vomiting

- 9. Abdominal cramps
- 10. Involuntary urination/defecation
- 11. Jerking/twitching/staggering
- 12. Headache
- 13. Drowsiness
- 14. Coma
- 15. Convulsions
- 16. Apnea

## Nerve Agent Exposure Mnemonic (SLUDGEM)

Salivation Lacrimation Urination Defecation GI distress Emesis Miosis/muscle fasciculation



### **Nerve Agent Treatment**

### CHEMPACK

### Description:

- The Centers for Disease Control and Prevention (CDC) established the CHEMPACK project resulting in the forward placement of sustainable caches of nerve agent antidotes.
- CHEMPACK caches have been placed at select sites throughout the S-SV EMS region and surrounding areas according to program requirements and effective transportation alternatives.
- EMS CHEMPACK caches contain enough antidote to treat approximately 454 patients. These caches contain primarily auto-injectors for rapid administration, but also contain some multi-dose vials for variable dosing (including pediatric patients) and prolonged treatment.
- Authorization to deploy CHEMPACK assets will be limited to an event that:
  - 1. Threatens the medical security of the community; and
  - 2. Places multiple lives at risk; and
  - 3. Is otherwise beyond local emergency response capabilities; and
  - 4. Will likely make the material medically necessary to save human life.

## CHEMPACK requesting/deployment:

- A requestor is considered to be one of the following entities at the scene of a suspected nerve agent or organophosphate release with known, suspected, or potential contaminated, exposed, or affected patients:
  - 1. EMS prehospital personnel; or
  - 2. Incident Commander (IC); or
  - 3. Medical Group Supervisor (MGS).
- Potential requestors should be familiar with and follow their Operational Area (OA)/county specific CHEMPACK plans and procedures
- The S-SV EMS Duty Officer and applicable MHOAC Program(s) shall be notified as soon as possible in the event of a CHEMPACK request/deployment.

# See page 3 for specific treatment

