SHENTO VALLET.	Sierra – Sacramento Valley EMS Agency Treatment Protocol		E-8
Vanilly A. A.	Nerve Agent Treatment		
Approval: Troy M. Falck, MD – Medical Director Effective: 06/01/20		)23	

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

# Important caveats for medical responders:

Approval: John Poland – Executive Director

- 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

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11. Jerking/twitching/staggering

12. Headache

13. Drowsiness

14. Coma

15. Convulsions

16. Apnea

# **Nerve Agent Exposure Mnemonic (SLUDGEM)**

**S**alivation

Lacrimation

**U**rination

**D**efecation

**G**I distress

**E**mesis

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



# **Nerve Agent Treatment**

