

# Nerve Agent Exposure Protocol

## Mark-1 Kit/ NAAK

Effective Date February 6, 2005

### Indication

Exposure to nerve agents.

### Initial Actions

- 1) If the presence of a nerve agent is suspected by presentation of symptoms or large number of patients, personnel should immediately contact dispatch to notify other responding units and command staff
- 2) Follow departmental decontamination and PPE protocols as required.

### **Adults and pediatric patients over age 10 or 40kg.**

If the patient was exposed to a nerve agent and has the following symptoms:

1. No symptoms - Decontamination and observation only.
2. Mild symptoms (muscle twitching and diaphoresis), the paramedic may administer one **(1) MARK I kit**.
3. Moderate symptoms (miosis, rhinorrhea, headache, wheezing, GI effects and muscle weakness), the paramedic may administer one **(1) to two (2) MARK I kits**.
  - The paramedic may repeat atropine 2mg autoinjector IM every 5 – 10 minutes until secretions discontinue.
4. Severe symptoms (unconscious, seizures, flaccid, apnea), the paramedic may administer **three (3) MARK I kits**.
  - The paramedic may administer repeat atropine 2mg autoinjector every 5 – 10 minutes until secretions discontinue.
  - The paramedic may administer **Valium (Diazepam) 10mg IM autoinjector or 5-10 mg IV** for any seizure activity related to nerve agent exposure.

**Updated: 01-1-10**

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### **Pediatric Patients less than age 10 or less than 40 kg**

If the patient was exposed to a nerve agent and has the following symptoms:

- 1) No symptoms – decontamination and observation only.
- 2) Mild symptoms – (miosis, mild rhinorrhea) decontamination and observation only.
- 3) Moderate and Severe symptoms - (miosis and any other symptom of nerve agent exposure)
  - **Atropine (Atropisol, Isopto Atropine) 0.05mg/kg IV or IM**
    - repeat q 5-10 minutes until respiratory status improves
    - MAX DOSE: 4mg
  - **Pralidoxime (if available) 25-50 mg/kg IV or IM**
    - may repeat q 1 hr
    - MAX DOSE: 1200mg
    - watch for muscle rigidity, laryngospasm, tachycardia
  - If any seizure activity present, administer **Valium (Diazepam)**:
    - Age 30 days to 5 years
      - Diazepam 0.05 to 0.3 mg/kg IV or IM
      - MAX DOSE: 10mg
    - Age 5 years and older
      - Diazepam 0.05 to 0.3 mg/kg IV or IM
      - MAX DOSE: 30mg
    - Monitor respiratory status closely following administration of Valium (Diazepam).