# Nerve Agent / Organophosphate Poisoning

The incident commander is in charge of the scene and you are to follow his/her direction for entering and exiting the scene. Patients in the hot and warm zones MUST be decontaminated prior to entering the cold zone.

## ADULT

### BLS Procedures

*Patients that are exhibiting obvious signs of exposure (SLUDGEM) of organophosphate exposure and/or nerve agents*

Maintain airway and position of comfort

Administer oxygen as indicated

- **Mark I or DuoDote Antidote Kit**
  - **Mild Exposure:** IM x 1
  - **Moderate Exposure:** IM x 1
    - May repeat in 10 minutes if symptoms persist
  - **Severe Exposure:** IM x 3 in rapid succession, rotating injection sites

## PEDIATRIC

### BLS Procedures

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## ALS Standing Orders

*Patient’s that are exhibiting obvious signs of exposure (SLUDGEM) of Organophosphate exposure and/or Nerve Agents*

If not already administered by BLS personnel:

- **Mark I or DuoDote Antidote Kit**
  - **Mild Exposure:** IM x 1
  - **Moderate Exposure:** IM x 1
    - May repeat in 10 minutes if symptoms persist
  - **Severe Exposure:** IM x 3 in rapid succession, rotating injection sites

For seizures:

- **Midazolam**
  - **Adult:** IV/IO – 2 mg
    - Repeat 1 mg q 2 min as needed
  - **Pediatric:** IM – 0.1 mg/kg
    - Max 5 mg

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## Base Hospital Orders Only

Consult with ED Physician for further treatment measures

- Refer to VCEMS Policy 705.18-Overdose/Poisoning for organophosphate poisoning treatment guidelines.
- **Diazepam** is available in the CHEMPACK and may be deployed in the event of a nerve agent exposure.

Paramedics may administer diazepam using the following dosages for the treatment of seizures:

- **Adult:** 5 mg IM/IV/IO q 10 min titrated to effect (max 30 mg)
- **Pediatric:** 0.1 mg/kg IV/IM/IO (max initial dose 5 mg) over 2-3 min q 10 min titrated to effect (max total dose 10 mg)

- **Mild exposure with symptoms:**
  - Miosis, rhinorrhea, drooling, sweating, blurred vision, nausea, bradypnea or tachypnea, nervousness, fatigue, minor memory disturbances, irritability, unexplained tearing, wheezing, tachycardia, bradycardia
- **Moderate exposure with symptoms:**
  - Miosis, rhinorrhea, SOB, wheezing, secretions, soft muscle weakness and fasciculations, GI effects
- **Severe exposure with symptoms:**
  - Strange confused behavior, severe difficulty breathing, twitching, unconsciousness, seizing, flaccid, apnea, pinpoint pupils involuntary defecation, urination

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Last Reviewed: April 12, 2018

VCEMS Medical Director