

WMD-Nerve Agent Protocol



History

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

Signs and Symptoms

- **S**alivation
- <u>L</u>acrimation
- <u>U</u>rination; increased, loss of control
- <u>D</u>efecation / Diarrhea
- <u>G</u>I Upset; Abdominal pain / cramping
- Emesis
- Muscle Twitching
- 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.)

Call for help/ additional Obtain history of exposure Contact resources Observe for specific toxidromes **Carolinas Poison Control** Stage until scene safe Initiate triage and/or decontamination as indicated. 1-800-222-1222 Or Agency Specific Number Symptom Severity **Major Symptoms: Minor Symptoms:** Altered Mental Status, Seizures, **Asymptomatic** Respiratory Distress + SLUDGEM Respiratory Distress, Respiratory Arrest IV or IO Access Protocol UP 6 IV or IO Access Protocol UP 6 Monitor and Reassess Every 15 minutes for **Nerve Agent Kit IM Nerve Agent Kit IM** symptoms 2 Doses Rapidly 3 Doses Rapidly if available Initiate Treatment per if available Appropriate Arm Atropine 2 mg IV / IO / IM **Pediatric: See Pearls** IV / IO / IM Repeat every 3 to 5 minutes until symptoms resolve Pralidoxime (2PAM) 600 mg IV / IO / IM Pediatric: 15 - 25 mg / kg IV / IO / IM Over 30 minutes Seizure Protocol UP 13 CDC/ ASPR Consider **CHEMPACK Program** Activation and deployment of CHEMPACK NC -57 EMS containers CHEMPACK ACTIVATION: -43 locations Multiple Patients YES**▶** (insert local number) Almost all citizens within 50 ΝÔ **Healthcare Coalition Activation** miles of CHEMPACK (insert local number) See Page 2 and Pearls **Notify Destination or Contact Medical Control**

Toxic-Environmental Protocol Section



WMD-Nerve Agent Protocol



Environmental Protocol Section

Poarle

- Recommended Exam: Mental Status, Skin, HEENT, Heart, Lungs, Gastrointestinal, Neuro
- Follow local HAZMAT protocols for decontamination and use of personal protective equipment.
- Adult/ Pediatric Atropine Dosing Guides:

Confirmed 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 atropines (if available).

Usual pediatric doses: 0.5 mg ≤ 40 pounds (18 kg), 1 mg dose if patient weighs between 40 to 90 pounds (18 to 40 kg), and 2 mg dose ≥ 90 pounds (≥ 40 kg).

- Each Nerve Agent Kit contains 600 mg of Pralidoxime (2-PAM) and 2 mg of Atropine.
- Seizure Activity: Any benzodiazepine by any route is acceptable.
- For patients with major symptoms, there is no limit for atropine dosing.
- Carefully evaluate patients to ensure they do not have exposure to other agent(s) (e.g., narcotics, vesicants, etc.)
- The main symptom that the atropine addresses is excessive secretions, so atropine should be given until secretions improve/ dry.
- EMS personnel, public safety officers and EMR/ EMT may carry, self-administer, or administer atropine/ pralidoxime to others by protocol. Agency medical director may require Contact of Medical Control prior to administration.
- CHEMPACK Program:

For multiple patients, call for **CHEMPACK** deployment per local emergency management and healthca**re coalition plans**.

1 EMS CHEMPACK supports 454 patients.

Medication in CHEMPACK may be used regardless of expiration date.

EMS Type CHEMPACK Container			
454 Person Treatment Capacity			
Product	Cases	Units	Total
		per case	Units
Mark 1 Auto-injector	5	240	1,200
-OR			
ATNAA Auto-injector	6	200	1,200
-OR-			
Atropen 2mg Auto-injector	9	136	1,224
Pralidoxime 300mg Auto-injector	5	240	1,200
-AND-			
Diazepam 10mg Auto-injector	2	300	600
Seizalam (Midazolam) 5mg/ml vial 10ml	1	100	100
Atropen 0.5mg Auto-injector	1	225	225
Atropen 1mg Auto-injector	1	225	225
Atropine Sulfate 0.4mg/ml vial 20ml	1	100	100
Pralidoxime 1gm inj. 20ml	1	276	276
Sterile Water 20ml vials	1	150	150

