



**NERVE GAS ANTIDOTE
STANDARDS FOR TRAINING/STORAGE
AND PROCEDURE FOR AUTOINJECTION**

APPROVED: 

EMS Medical Director



Interim EMS Administrator

1. All fire service first responders and emergency ambulance personnel will receive documented training in signs and symptoms of nerve gas exposure and auto-injection of nerve gas antidotes to include:
 - 1.1. A review in the signs and symptoms of nerve gas exposure, and
 - 1.2. Hands-on practice performing auto-injectors of nerve gas antidotes.
2. Any law enforcement agency that wants to provide its personnel with auto-injection nerve gas antidotes will provide its personnel with the training described in #1 above.
3. Inventory and Storage
 - 3.1. The EMS Agency recommends that each emergency response vehicle be equipped with one (1) Duodote auto-injector and one (1) AtroPen auto-injector per person per vehicle.
 - 3.2. The EMS Agency also recommends that each fire first response vehicle be equipped with an additional two (2) Duodote auto-injectors and two (2) AtroPen auto-injectors designated for law enforcement personnel.
4. Indications for auto-injection of nerve gas antidote
 - 4.1. Signs and symptoms (Mnemonic SLUDGE)
 - 4.1.1. **S**alivation (watering mouth)
 - 4.1.2. **L**acrimation (eyes tearing)
 - 4.1.3. **U**rination
 - 4.1.4. **D**efecation
 - 4.1.5. **G**astrointestinal pain & gas

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4.1.6. Emesis (vomiting)

Exposure	Signs & Symptoms
Mild	Unexplained runny nose
Mild	Tightness in the chest
Mild	Difficulty breathing
Mild	Bronchospasm (wheezing)
Moderate	Pinpoint pupils and blurred vision
Moderate	Drooling
Moderate	Excessive sweating
Moderate	Nausea/vomiting
Moderate	Abdominal cramps
Moderate	Involuntary urination or defecation
Severe	Jerking, twitching and staggering
Severe	Headache
Severe	Drowsiness
Severe	Coma
Severe	Convulsions
Severe	Apnea (not breathing)

5. Indications for use of auto-injectors

5.1. Nerve gas antidote auto-injectors are to be used when first responder personnel are exposed to nerve agents (e.g., Sarin, Soman, Tabun, VX) and have signs and symptoms of nerve agent exposure. This is not given as prophylaxis.

6. Equipment

6.1. One (1) Duodote auto-injector

6.2. One (1) AtroPen auto-injector

7. Follow manufacturer's instructions for administration of the antidote.