

## **MARK I AUTO-INJECTOR**

### **For Chemical Nerve Agent Exposure**

The Mark I kit consisting of one autoinjector of 2 mg Atropine Sulfate and one autoinjector of 600

mg Pralidoxime Chloride (2-PAM Chloride) may be administered by qualified emergency responders who have had adequate training on the on-site recognition and treatment of nerve agent exposure.

Some classic symptoms of nerve agent exposure include:

- unexplained runny nose
- tightness in chest/difficulty breathing
- pinpoint pupils of the eye resulting in blurred vision
- drooling, excessive sweating
- nausea, vomiting and abdominal cramps
- involuntary urination and defecation
- jerking, twitching and staggering
- headache, drowsiness, coma convulsions
- stoppage of breathing

### **Administration of the Nerve Agent Antidote Auto-Injector Kit (Mark I) and General Guidelines**

When a first responder arrives on a scene potentially contaminated with nerve agents, don protective mask and personal protective equipment.

Responders that are in the "HOT" zone may initiate immediate treatment. EMS Personnel shall be

limited to the "COLD" zone unless otherwise directed by the Incident Commander and or are properly trained and equipped to enter the "HOT" zone.

- If symptoms of nerve agent exposure occur, administer appropriate nerve agent antidotes.
- If nerve agent symptoms are still present after fifteen (15) minutes, repeat injections. • If symptoms still exist after an additional fifteen (15) minutes, repeat injections for a third time.
- If after the third set of injections, symptoms remain, do not give any more antidotes but seek advice from medical direction.

Patients responding favorably to administration of the nerve agent antidote auto-injector are to be closely monitored.

Chemical exposure patients shall be decontaminated PRIOR to initiating transport.

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## **Mark I Auto-Injector**

### **The AtroPen®**

The following are general guidelines on using the AtroPen® Auto-Injector. Each auto-injector has

user guidelines printed on the pen.

1. Remove Mark I kit from the protective pouch.
2. Hold unit by plastic clip.
3. Remove AtroPen from slot number 1 of the plastic clip. The yellow safety cap will remain in the clip and the AtroPen will now be armed. DO NOT hold unit by green tip. The needle ejects from the green tip.
4. Grasp the unit and position the green tip of the AtroPen on victim's outer thigh.
5. Hold in place for ten (10) seconds to ensure Atropine has been properly delivered.

### **Mark I Auto-Injector**



### **The ComboPen®**

The following are general guidelines on using the ComboPen® Auto-Injector. Each auto-injector has user guidelines printed on the pen.

1. Remove 2-PAM Chloride ComboPen® from slot number 2 of the plastic clip. The gray safety cap will remain in the clip and the ComboPen® will now be armed. DO NOT hold the unit by the black tip. The needle ejects from the black tip.
2. Grasp the unit and position the black tip of the ComboPen® on the victim's outer thigh.
3. Push firmly until auto-injector fires.
4. Hold in place for ten (10) seconds to ensure Pralidoxime Chloride has been properly delivered.

### **Practicing with Mark I Auto-Injector Trainers**

1. Remove kit from protective pouch.
2. Hold Mark I trainer by plastic clip.
3. Remove AtroPen trainer from slot number 1 of the plastic clip. The yellow safety cap will remain in the clip.
4. Grasp the trainer and position the green tip of the AtroPen trainer on victim's outer thigh.
5. Push firmly until red prod ejects from unit.
6. Remove ComboPen trainer from slot number 2 of the plastic clip. The gray safety cap will remain in the clip.
7. Grasp the trainer and position the black tip of the ComboPen trainer on victim's outer thigh.
8. Push firmly until the white prod ejects from unit.
9. Reset Mark I Auto-Injector Trainers.

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### **Resetting the AtroPen® Trainer**

1. Gently pull the green tip out about ¼ inch to expose the neck of the unit.
2. Clamp open end of recocking tool on the neck of the AtroPen trainer below the green tip.
3. Place red prod down on hard surface and apply pressure until you hear a click.
4. Remove recocking tool.
5. Slide AtroPen trainer back into the plastic clip slot number 1 and press end of the unit into the yellow safety cap.
6. The stand-alone AtroPen trainer does not slide into a plastic clip.

### **Resetting the ComboPen® Trainer**

1. Place the black recocking cap over the safety end of the ComboPen Trainer.
2. Rotate the black recocking cap until the two internal projections are aligned with the matching holes in the safety end of the training device.
3. Firmly press the black recocking cap down as far as it will go.
4. While holding the black recocking cap down, push the white prod against a hard surface, forcing the prod back into the trainer.
5. A click will be heard when the device is recocked.
6. Remove the black recocking cap.
7. Slide the ComboPen Trainer back into the plastic clip slot number 2 and press end of unit into gray safety cap.

Note: The stand-alone ComboPen Trainer does not slide into a plastic clip.

AtroPen® and ComboPen® are registered trademarks of Meridian Medical technologies, Inc.

For

additional information, see their website @ [www.meridianmeds.com](http://www.meridianmeds.com) or contact:

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