



Department of  
**Community Health**



# CHEMPACK

August 2005

MDCH EMS & Trauma Systems Section  
Office of Public Health Preparedness

# **CHEMPACK PROJECT**

Forward Placement of  
Nerve Agent Antidotes

**A STRATEGIC NATIONAL STOCKPILE (SNS)  
PROGRAM**

August 2005

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# CHEMPACK Program:

- **Designed to enhance Michigan's capacity to respond to a bio-terrorist, nerve agent or other mass casualty incident by providing additional medical supplies and equipment to a hospital or casualty site.**
- **Intended to be used as stop-gap measures while awaiting arrival of the Strategic National Stockpile**

# The Reason for CHEMPACK

- Many nerve agents are rapid acting, requiring immediate administration of life saving antidotes, therefore we cannot wait for the SNS to arrive
- Hospitals generally stock limited quantities of the antidotes required to treat nerve agent exposure

# Overview

- CDC Project (Federal Asset)
- Managed by the state
- Sustainable resource of nerve agent antidotes
- Strategically placed at numerous sites to improve capability to respond quickly to a nerve agent event
- Extends shelf life of pharmaceuticals for cost efficiency and longevity



# CHEMPACK Caches

## Two Types (Each will treat ~ 1000)

### EMS

- Designed to use at the scene of a nerve agent event
- Mostly auto-injectors
- Some multidose vials to allow for variable dosing of pediatric and geriatric populations



### Hospital

- Designed for hospital use
- Some auto-injectors for rapid use or no IV access
- Mostly multidose vials for variable dosing and prolonged treatment

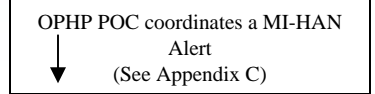
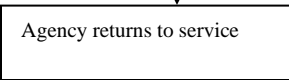
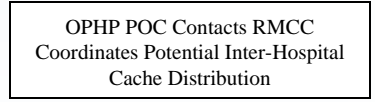
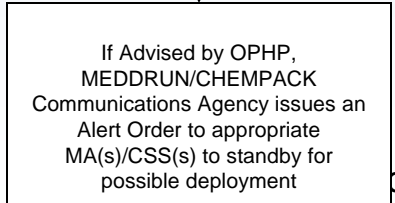
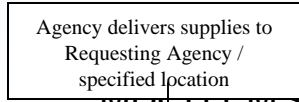
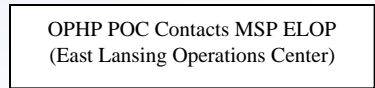
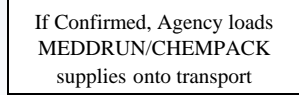
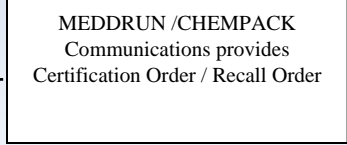
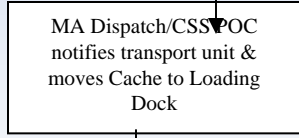
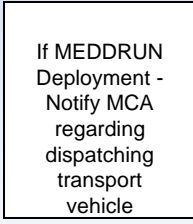
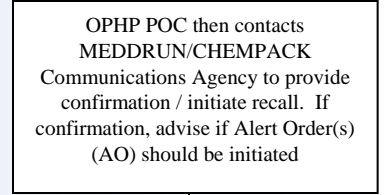
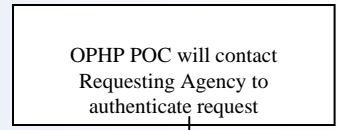
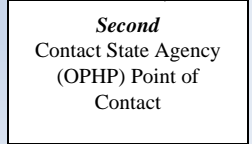
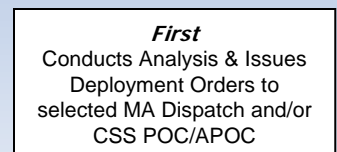
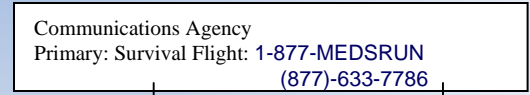
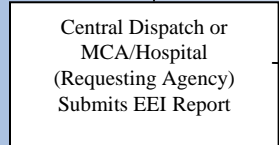
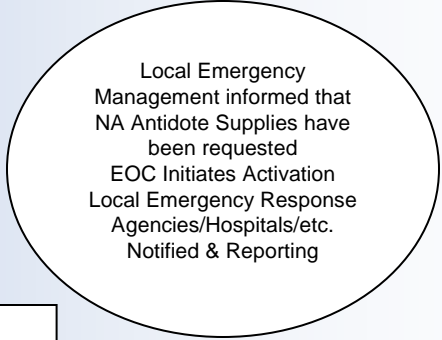
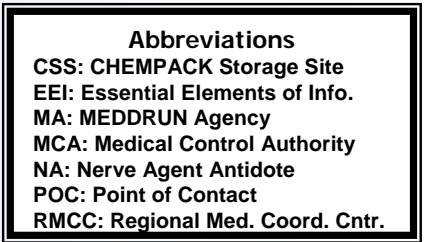
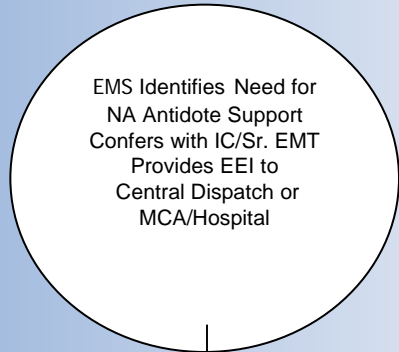


# CHEMPACK STORAGE SITE REQUIREMENTS

- Security requirements comply with Schedule IV Medications
- Storage site environmental conditions monitored by CDC
- Storage sites must respond to environmental and security alarms in a timely manner
- Storage sites must be clean and sanitary & have fire detection

# Activation of CHEMPACK

- May be used at the facility storing CHEMPACK or may be transported to an emergency scene or another hospital
- Deployment may be requested by the physician, senior EMS on-scene or governmental agency such as MDCH
- The request should occur before the supplies are completely exhausted to help assure uninterrupted availability
- One phone call to the Communications Agency initiates the activation & deployment process



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# CHEMPACK ACTIVATION

- **Event takes place**
- **Nerve agent (NA) antidote supplies are depleting**
- **The Sr. EMS or Incident Commander identifies the need for additional NA antidote support**
- **Provides Essential Elements of Information to “Coordinating Resource”**
  - **Central Dispatch, MEDCOM, MCA, etc.**

# CHEMPACK ACTIVATION

- At this point EMS personnel have fulfilled their duties until the antidote arrives.
- It is now the responsibility of all other links in the process to see that the requested antidote is deployed and safely delivered.



# “Coordinating Resource”

- Submits EEI report to the MEDDRUN/CHEMPACK communications Agency.
  - Primary: SURVIVAL FLIGHT: (877) MEDSRUN  
(877) 633-7786
  - Secondary: AEROMED: (616) 391-5330
- Will inform local emergency management that NA Antidote supplies have been requested.



# MEDDRUN/CHEMPACK COMMUNICATIONS AGENCY WILL:

- Conduct an analysis and issue deployment orders to the selected MEDDRUN dispatch or CHEMPACK storage sight POC/APOC
- Contacts State Agency OPHP Point of Contact

# OPHP Point of Contact will

- Contact the requesting agency to authenticate the request.
- Contact MEDDRUN/CHEMPACK Communications Agency to provide confirmation or initiate recall.
- If confirmed, advise if Alert Orders should also be initiated.

# ~OPHP~

- OPHP POC then contacts Michigan State Police East Lansing Operations Center. (MSP ELOP)
- OPHP then contacts the Regional Medical Coordinator Center and will coordinate potential inter-hospital formulary distribution
- POC coordinates a MI-HAN Alert

# DEPLOYMENT

- While OPHP is confirming the incident MEDDRUN/or CHEMPACK are being loaded and deployed.
- MEDDRUN should be at the sight within approximately one hour or less depending on weather conditions. CHEMPACK will take longer due to the weight of the caches and mode of transportation required to move them.

# CACHE is delivered to the scene

- *Transfer of Custody Form -Only* authorized individuals may transport and transfer custody of CHEMPACK materials.
- The Incident Commander will sign for the materials.

# CHEMPACK

# Contents

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## HOSPITAL CACHE

	Qty	Unit pack	Cases
Mark 1 auto-injector	390	240	2
Atropine Sulfate 0.4mg/ml 20ml	850	100	9
Pralidoxime 1 gm inj 20ml	2730	276	10
Atropen 0.5 mg	144	144	1
Atropen 0.1 mg	144	144	1
Diazepam 5mg/ml auto-injector	80	150	1
Diazepam 5mg/ml vial, 10ml	640	25	26
Sterile water for inj 20cc vials	2760	100	23
Sensaphone 2050	1	1	1
Satco B DEA Container	1	1	1

## EMS CACHE

	QTY	Unit pack	Cases
Mark 1 auto-injector	2550	240	11
Atropine Sulfate 0.4mg/ml 20ml	90	100	1
Pralidoxime 1 gm inj 20ml	190	276	1
Atropen 0.5 mg	225	144	2
Atropen 0.1 mg	225	144	2
Diazepam 5mg/ml auto-injector	490	150	4
Diazepam 5mg/ml vial, 10ml	80	25	4
Sterile water for injection 20cc vials	276	100	3
Sensaphone 2050	1	1	1
Satco B DEA Container	1	1	1

# QUESTIONS?

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