

CHEMPACK Program

New York State

July 21, 2023

What is the CHEMPACK Program?

The placement or "forward deployment" of medical antidotes to provide the healthcare sector and emergency responders a sustainable resource in managing an incident involving nerve agents or the release of organophosphate material

CHEMPACK is a component of the Strategic National Stockpile (SNS) as managed by the Administration for Strategic Preparedness and Response (ASPR)

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Incident Types

Sarin attacks in Tokyo, 1995

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CHEMPACK Program Rationale

- Agents can cause rapid system failure
- Antidotes can reverse symptoms when administered in a <u>timely manner</u>
- Most hospitals & pharmacies do not stockpile these types
 of antidotes
- DSNS Program has a 12-hour response time after request approval, too long in the event of an agent release
 - Forward Deployment is the only method to allow for quick access to significant quantities of antidotes to local healthcare facilities and responders

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CHEMPACK Strategy

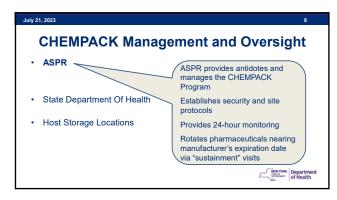
- Antidotes are packaged in storage containers supplied by ASPR and situated at healthcare facilities across the State
- Provides coverage to the vast majority of the State's population
 with the goal of initial treatment within one (1) hour of response
- Higher population density areas receive additional product
- Local control of critical life-saving assets to ensure antidotes are dispensed timely
- Localized leadership over response planning is the best method
 at ensuring success in managing an incident

CHEMPACK – Important Considerations

- Locally available resources (medications) have been exhausted
- The primary purpose of CHEMPACK is to manage a large-scale incident, however, use is <u>not</u> restricted to a single or several patients
 The goal is to save lives!
- Use of the CHEMPACK Program does not require pre-approval by the State
- Time is the biggest challenge

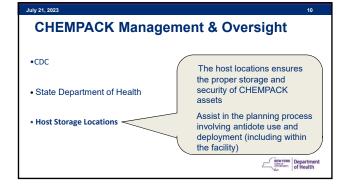
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CHEMPACK – SLEP Participation

- Shelf Life Extension Program (SLEP) provides for quality assurance techniques used to determine the condition of materiel in storage to ensure a ready-for-issue status
- Originally a US Department of Defense (DOD) program extended to CHEMPACK in cooperation with the US Food and Drug Administration (FDA) and CDC
- Allows for the exchange and rotation of product following efficacy testing by the federal government
- Reduces the sustainment cost of the CHEMPACK Program

CHEMPACK – SLEP Conditions

- The ASPR owns the product and is responsible for product testing and replacement, with exceptions
- Assets are continuously monitored by a data recording device (Sensaphone/STMS) which will alert the ASPR/Paragon of adverse conditions
 - Temperature (68 77 degrees Fahrenheit)
 - Humidity

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- Power or connection lossSecurity features
- Contamination from other factors such as mold
- If the seal is broken the materials in that container may no
- longer be eligible to participate in SLEP

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Types of CHEMPACK Containers

Hospital Container (fixed facility)

- Portions designated mainly for hospitals but may include a limited supply for Emergency Medical Services (EMS)
- Focus on intravenous/injectable (e.g. subcutaneous) delivery (85%); some auto injectors
- Will treat 1,000 victims

EMS Container (field response)

· Primarily intended for EMS for scene triage

Treatment numbers may be impacted by severity of victims

- Injectable drugs with focus on auto injectors (85%); some intravenous drugs
- Will treat 454 victims

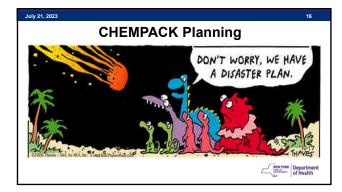
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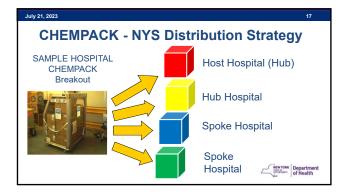
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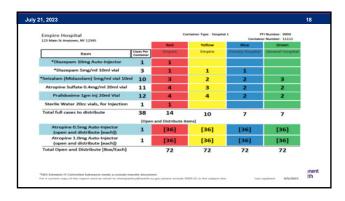
CHEMPACK Container – Host Facility Storage

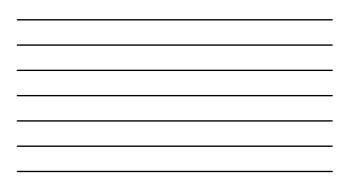
- The container is stored in a hospital pharmacy, locked room, or DEA approved cage
- · Access restricted to authorized personnel
- Monitored 24/7 by intrusion detection device(s) example: motion sensors
- STMS connectivity ethernet connection (if needed)
- Backup power such as a generator
- · Fire detection and suppression capabilities



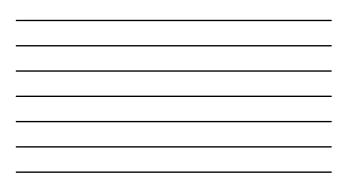






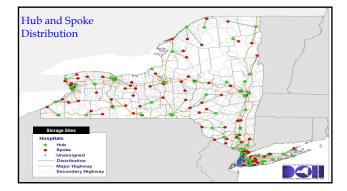


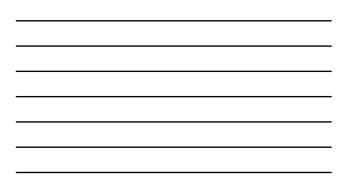




Empire Hospital 123 Main St Anytown, NY 12345		Container Type: EMS 1	PFI Number: 9999 Container Number: 2222
		Green	Orange
Item	Cases Per Container	EMS	EMS
*Diazepam 10mg Auto-Injector	2	1	1
Seizalam (Midazolam) 5mg/ml vial 10ml	1	1	
Atropine 2.0mg Auto-Injector (M1)	9	5	4
Pralidoximie 300mg Auto-Injector (M1)	5	3	2
Atropine Sulfate 0.4mg/ml 20ml vial	1	1	
Pralidoxime 1gm inj 20ml Vial	1	1	
Sterile Water 20cc vials, for Injection	1	1	
Total full cases to distribute	20	13	7
	[Ope	n and Distribute items]	
Atropine 0.5mg Auto-Injector (open and distribute [each])	1	[72]	[72]
Atropine 1.0mg Auto-Injector (open and distribute [each])	1	[72]	[72]
Total Open and Distribute [Box/Each]		144	144









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CHEMPACK Planning

All CHEMPACK plans should include the methodology to transfer CHEMPACK assets from a storage location to the incident scene (triage), hospital emergency room and/or Spoke facilities.

Responsibility for planning and distribution of CHEMPACK assets is placed at the local level. Local Office of Emergency Management and Public Health Departments, as well as host locations/hospitals, law enforcement, Fire/EMS and 911 centers are encouraged to plan as a collaborative effort

<section-header>3/1/21,2023 24 CHEMPACK Planning CHEMPACK should be deployed if there has been a suspected agent incident that will: Put life at risk Threaten the health of the community Potentially overwhelm local

supplies of antidotes

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CHEMPACK - Who Authorizes?

- · Attending Physician of Emergency Department
- · Hub and/or Spoke Hospital Pre-Identified Authority
- County Emergency Management
- · County Health Department Commissioner/Director
- · State Department of Health

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Centers for Disease Control and Prevention

Note: It is crucial to identify capable and redundant authorities and/or means of communication that can direct the necessary actions in the distribution and use of CHEMPACK Assets.

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CHEMPACK – Healthcare Facilities

- · Identification of agent exposure of person(s) or advance notice of incoming patients through normal communication
- Decontamination plans, as applicable · Locally available resources (medications) not available
- and/or exhausted .
- Approval by pre-identified authority to open container(s)
- Transfer/transport of portions within hospital and spokes Hospital activates Hospital Incident Command System (HICS)
- Notify County Emergency Management (EM) & State Department of Health (DOH)
- EM activates county response plan

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CHEMPACK – Incident Site

- · Determination at the scene of agent exposure
- Utilize Incident Command System (ICS) and make medical decision
- · Request assets through established process
- · Notify transportation assets of request
- Distribute as directed
- · Return unused portion and complete documentation when possible

CHEMPACK Planning

Developing the CHEMPACK Plan

- Conditions of Deployment
 Administrative Authority
- Administrative AuthorityDecontamination

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- Communication pathways
- Internally
 Between partners/facilities
- Maintenance Guidelines
 List of Authorized Personn
- List of Authorized PersonnelTransport Plan(s)
- Facility use plans



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The Role of Fire & EMS In CHEMPACK

- Fire & EMS respond to the scene and determine if CHEMPACK assets are needed
- Decontamination
- If made available, administer antidotes to victims in the field
 Transport to appropriate medical facility
- Participate in CHEMPACK Planning and Exercises

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The Role Of Law Enforcement In CHEMPACK

- Local police are often the first responders on scene
- Provide on-scene security
- May transport CHEMPACK assets
- May provide hospital security
- Participate in CHEMPACK Planning and Exercises
- Conduct organizational training to ensure department wide knowledge of CHEMPACK



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The Role of Emergency Management in CHEMPACK

- Authorize the opening of CHEMPACK assets as the situation warrants
 Receive immediate notification of the opening of CHEMPACK assets whenever authorized by another official or medical professional
- Notify and coordinate other agencies supporting the use of CHEMPACK assets
- Overall responsibility for incident management and the CHEMPACK distribution effort to the scene
- Ensure agency personnel with key roles in the implementation of the CHEMPACK plan receive training when available
- Participate in CHEMPACK Planning and Exercises

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The Role Of Dispatch In CHEMPACK

- May receive requests for CHEMPACK assets from Incident Commander
- May notify the Host Storage Location/hospital to mobilize CHEMPACK assets to the field and nearby hospitals



 Participate in CHEMPACK Planning and Exercises



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- The Role of Hospitals In CHEMPACK
- Host hospitals prepare CHEMPACK assets for transfer to the Emergency Department, the scene and/or other hospitals
- Hospital personnel recognize potential nerve agent
 exposure in incoming patients
- Health care providers administer antidotes
 Hospital personnel participate in CHEMPACK Planning and Exercises
- Conduct organizational training to ensure hospital wide knowledge of CHEMPACK



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The Role Of Public Health In CHEMPACK

- · Limited involvement in the request, receipt, or administration of CHEMPACK assets Assist with risk communication, mental
- health/social services, demobilization activities
- Involved in epidemiologic investigation • Disaster Mental Health Services

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- Participate in CHEMPACK Planning and Exercises





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CHEMPACK Planning

It is understood that CHEMPACK emergency response plans must be developed, in place, kept current, and practiced if they are to be effective



CHEMPACK - Review

- Contains antidotes for nerve agents or organophosphate exposure only
- Time is crucial for successful medical management (< 1 hour)
- ASPR maintains ownership until injected Managed by NYS in partnership with Hub Hospitals

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- Stored at Statewide locations
 Response Plans by County Partners and Hospitals are a collaborative effort
 Communication pathways need to be established

 Granting authority to use CHEMPACK assets (who, what, when)
- Program familiarity and updated point-of-contacts
- Periodic updates to plan (e.g. annual) .
- Training opportunities to test the plan

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