

UPPER CUMBERLAND REGION CHEMPACK

STANDARD OPERATING GUIDELINES



JULY 2023

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SPECIAL NOTE:

Due to manufacturing delays, the Hospital container is absent the Mark 1 auto-injectors, but contains two extra cases of 2-PAM and atropine multi-dose vials packaged separately.

INTRODUCTION:

The CHEMPACK Program is part of the Strategic National Stockpile overseen by the Centers for Disease Control and Prevention (CDC). It was designed to enhance the Nation's preparedness for responding to a chemical/nerve agent event at the state/local level. It is a collaborative effort between the Tennessee Department of Health and the CDC.

Because the toxic effects of chemical/nerve agents require immediate medical intervention, a fundamental element of the CHEMPACK Program is that jurisdictions have appropriate, viable life-saving antidotes available at the first responder level. For this reason, the CHEMPACK Program provides forward placement of chemical/nerve agent antidotes at the local level. The CHEMPACK provides a supply of antidotes and symptomatic treatments available to emergency responders and hospital facilities and is meant to augment local resources. Because of the expense associated with maintaining a stockpile of chemical antidotes, local hospitals have little, if any, of the necessary drugs.

PURPOSE:

This document serves as a guide to RMCC (Cookeville MedCom) operators, hospitals, EMS and emergency management for the utilization of the Upper Cumberland Region's CHEMPACK. In order to be of most benefit, CHEMPACK antidotes and medications should be in the hands of local medical personnel within one hour of the request.

REGION/COUNTIES SERVED:

Cannon	Jackson	Smith
Clay	Macon	Van Buren
Cumberland	Overton	Warren
DeKalb	Pickett	White
Fentress	Putnam	

INVENTORY:

The regional stockpile of nerve agent antidotes is located at Cookeville Regional Medical Center (CRMC), at One Medical Center Blvd in Cookeville. Regional assets consist of two containers, one EMS and one Hospital. The EMS container is designed for use by emergency responders and contains mostly auto injectors. It will treat 454 pre-hospital patients on average. The Hospital container is designed for hospital

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dispensing and contains medication mostly in multi-dose vials for precision dosing and long-term treatment. It will treat 1000 hospital patients on average.

Upper Cumberland Region CHEMPACK			
EMS CHEMPACK Container for 454 patients			
	Unit Pack	Cases	Qty
Antidote Treatment Nerve Agent Auto-injector	200	6	1200
Atropine Sulfate 0.4mg/mL 20mL	100	1	100
Pralidoxime 1gm inj 20mL	1	1	276
Atropen 0.5mg	1	1	144
Atropen 1mg	144	1	144
Diazepam 10mg auto-injector	150	2	300
Seizalam 5mg/mL vial 10mL	50	1	50
Sterile water for injection (SWFI) 20mL vial	100	1	100
Total Weight without container		240 lbs	
Total Weight with container		400 lbs	
Hospital CHEMPACK Container for 1000 patients			
	Unit Pack	Cases	Qty
Atropine Sulfate 0.4mg/mL 20mL	100	11	1100
Pralidoxime 1gm inj 20mL	276	12	3312
Atropen 0.5mg	144	1	144
Atropen 1mg	144	1	144
Diazepam 10mg auto-injector	150	1	150
Seizalam 5mg/mL vial 10 mL	50	10	500
Diazepam 5mg/mL vial 10mL	50	3	150
Sterile water for injection (SWFI) 20mL vial	100	1	100
Total Weight without container		377 lbs	
Total Weight with container		537 lbs	

CACHE LOCATION RESPONSIBILITIES:

- Cookeville Regional Medical Center will maintain the region's CHEMPACK and serve as the distribution point for CHEMPACK assets.
- Cookeville Regional will be responsible for the environmental and physical security of the CHEMPACK assets.
- Cookeville Regional will develop and maintain internal protocols for the security and emergency access of the CHEMPACK.
- Cookeville Regional will be responsible for preparing the CHEMPACK assets for emergency transport.

ACTIVATION PROCESS:

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REQUEST

CHEMPACK containers should only be requested for the purpose of responding to a chemical/nerve agent incident. CHEMPACK assets may be requested by hospital, emergency medical service, or county emergency management personnel when all of the following conditions exist in their jurisdiction:

- When it is determined that a nerve agent release has occurred.
- When the release is so large that the medical security of the community is at risk.
- When the release has put multiple lives at risk.
- When the casualties threaten to overwhelm local medical resources.

Upon meeting the conditions listed above, local emergency response authorities may request CHEMPACK assets by contacting the Regional Medical Communications Center (Cookeville MedCom) either by RADIO or TELEPHONE communications.

931-528-1555

The on-duty dispatcher at Cookeville MedCom should obtain the following information:

- Point of Contact name and phone number or radio frequency
- Alternate contact name and phone number
- Type of chemical exposure if known
- Type of container request: EMS or Hospital
- Specific location to which the CHEMPACK is to be delivered, preferably GPS coordinates
- Location and brief description of incident with estimated number of victims

The Point of Contact should expect a call back and should be available to answer further questions. Upon actual shipment of the assets, the MedCom dispatcher will establish communications with the Point of Contact and inform him/her of the delivery method and estimated time of arrival.

On initial receipt of a request for the CHEMPACK, the on-duty dispatcher will contact the **pharmacist on duty** at Cookeville Regional Medical Center so that the containers can be prepared for movement. RMCC Administrators and Putnam County EMS Officer will then be notified. The on-duty EMS Officer will decide on the best available means to transport the CHEMPACK. Options include an ambulance, truck, trailer or helicopter. The dispatcher will assist in arranging transportation for the CHEMPACK if necessary. The EMS Officer or designee will proceed immediately to the **loading dock** at Cookeville Regional Medical Center to pick up

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the CHEMPACK assets. If helicopter transport is determined to be the best available means of delivery, then EMS will be responsible for moving the CHEMPACK to the helipad via truck or ambulance. CRMC will provide security for the CHEMPACK assets until they leave the premises.

If Putnam County EMS is not available and there is no other means of transportation, then Putnam County EMA will be responsible for transport of the CHEMPACK. The on-duty dispatcher should contact EMA Director Tyler Smith or Deputy Director Sharon Womack.

The on-duty dispatcher will then notify the **pharmacist on duty** at CRMC and advise them of the incident including the **type of container** requested, the **estimated number of victims** and the **mode of transport**.

NOTIFICATION:

Cookeville MedCom dispatcher will notify individuals and agencies in the following order:

- On-duty **Pharmacist at CRMC** 783-2682. Advise them of the **estimated number of victims, type of container request** and the **mode of transport**.
- **RMCC Administrators**
- **EMS Officer**, contact by best available means
- **LifeForce 2**, if needed and available (**Air Evac** will back-up if LifeForce not available)
 - 800-523-6723 (dispatch)
 - 931-738-2779 (Sparta base)
- Putnam County EMA Director **Tyler Smith**
 - 528-7575 (office)
 - 526-2828 (home)
 - 979-0017 (cell)or Deputy Director **Sharon Womack**
 - 432-6774 (home)
 - 979-5950 (cell)
- EMS Consultant **Brian Tompkins**
 - 931-216-3999 (cell)
 - 931-646-7532 (office)
- Public Health Regional Hospital Coordinator **Michael Cooper**

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423-718-8682 (personal cell)

931-646-7575 (office)

- Public Health Emergency Response Coordinator **Michael Hellman**

931-267-7024 (personal cell)

931-646-7547 (office)

931-854-0478 (home)

- **TEMA State Operations Center** 800-262-3300

ALLOCATION OF ASSETS:

Because of the nature of a chemical/nerve agent incident, the resources of more than one hospital may be needed to treat all the victims. Therefore, the assets within the hospital container are labeled for distribution to multiple hospitals if necessary. Assets will be allocated to hospitals based on the number of victims reported by the requesting agency. CRMC will retain the assets labeled **ORANGE**. The following table shows the method of allocation.

HOSPITAL CHEMPACK CACHE ALLOCATION		Hospital 1 (Cache Site)	Hospital 2	Hospital 3	Hospital 4
Product	Unit of Measure	Case Quantity	Case Quantity	Case Quantity	Case Quantity
Atropine Sulfate 0.4 mg/mL 20mL	Case	5	2	2	2
Pralidoxime 1gm inj 20mL	Case	6	2	2	2
Atropen .5 mg	Case	1	0	0	0
Atropen 1 mg	Case	1	0	0	0
Diazepam 10mg/mL auto- injector	Case	1	0	0	0
Diazepam 5mg/mL, 10 mL multidose vial	Case	0	1	1	1
Siezalal 5mg/mL, 10 mL multidose vial	Case	1	3	3	3
Sterile water for injection 20 mL vial	Case	1	0	0	0
Total Cases	Case	16	8	8	8
Total Weight	Pounds	192	61	61	61
Treatment Capacity	Patients	400	200	200	200

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DELIVERY METHOD:

The decision should be made on the best delivery method for the particular incident. Consider how long it will take to get available assets to the requesting agency including the distance to destination and time to make the transport.

The following counties can routinely be reached most quickly by emergency ground transport:

Cumberland, Jackson, Overton, Putnam, Smith, White, DeKalb

The following counties should be considered for air transport:

Cannon, Clay, Fentress, Macon, Pickett, Van Buren, Warren

NOTE: Driving directions to each hospital's loading dock is located in the white binders located on top of each CHEMPACK container.

RECEIVING HOSPITAL RESPONSIBILITIES:

Receiving: Transfer of custody forms will accompany every shipment from the CHEMPACK cache and should remain with the assets. Upon delivery, hospital materials must be physically received by a staff physician or pharmacist. EMS materials must be physically received by the Person in Charge on the emergency scene.

Handling: CHEMPACK pharmaceuticals are federal assets, and the formulary contains controlled substances. Therefore, receiving agencies agree to act in accordance with all applicable Federal, State, and Local regulations for handling, storage and dispensing of controlled substances.

Pick Up: At the conclusion of the emergency, the receiving agency will consolidate any remaining assets for pick up by a Tennessee Department of Health designee or TEMA representative. The receiving agency shall provide a current inventory list of the assets being returned.

MEDICAL MANAGEMENT:

Dosing Reference Guide for Nerve Agent Antidotes

Patient	Age/Wt	Atropine	2-PAM
Infant	0-3 years < 13 kg (~30 lbs)	0.05-0.1 mg/kg IM/IV or 0.1 mg- 1 mg	25-50 mg/kg IM/IV or 150-600 mg

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Small Child to Child	3-10 years 13-35 kg (~30-77 lbs)	1-4 mg IM/IV	25-50 mg/kg IM/IV or 300-1200 mg
Adolescent to Adults	> 10 years > 35 kg (~77 lbs)	2-6 mg IM/IV	25 mg/kg (adol.) IM/IV or 600-1800 mg IM
Frail Elderly	Frail Elderly	1-4 mg IM/IV	10-25 mg/kg IM/IV

For additional information on the medical management of nerve agent or chemically exposed patients refer to *Agency for Toxic Substances Disease Registry* at <https://www.atsdr.cdc.gov/substances/index.asp>

REQUEST FOR FOLLOW-UP SUPPLIES:

Follow-up supplies can be obtained by contacting TEMA State Operations Center at 800-262-3300. They will look for in-state resources. When no more appropriate resources are available in state, the Governor can request resources from the Strategic National Stockpile (SNS). They can send additional supplies anywhere within the United States in 12 hours or less. A variety of equipment and supplies are available to handle virtually any Mass Casualty Incident.

**UPPER CUMBERLAND
REGIONAL MEDICAL COMMUNICATIONS CENTER
CHEMPACK Activation Worksheet**

TIME

DATE

TYPE OF CONTAINER REQUEST: EMS HOSPITAL

ESTIMATED NUMBER OF CASUALTIES

REQUESTING AGENCY

POINT OF CONTACT

TELEPHONE NUMBER

ALTERNATE CONTACT

TELEPHONE NUMBER

MODE OF TRANSPORT: AIR GROUND

DELIVERY LOCATION

- Notify MEDCOM ADMIN TIME
- Notify CRMC ON-DUTY PHARMACIST **783-2682** TIME
- Notify EMS OFFICER TIME
- Notify HELICOPTER service IF NEEDED TIME
- Notify EMA DIRECTOR, Tyler Smith TIME
 - **528-7575 (office), 526-2828 (home), or 979-0017 (cell)**
 - **OR Deputy Dir Sharon Womack 432-6774 (home), 979-5950 (cell)**
- Notify EMS CONSULTANT, Brian Tompkins TIME
 - **931-216-3999 (cell) or 931-879-1598 (office)**
- Notify PUBLIC HEALTH RHC, Michael Cooper TIME
 - **423-718-8682 (cell) or 646-7575(work)**
- Notify PUBLIC HEALTH ERC, Mike Hellman TIME
 - **267-7024 (cell), 854-0478 (home), or 646-7547(work)**
- Notify TEMA 800-262-3300 TIME
- Notify Requesting Agency POC of ETA TIME

- DEPARTURE TIME OF CACHE AIR GROUND
- ARRIVAL TIME OF CACHE AIR GROUND
- CONFIRMATION OF DELIVERY AND
SIGNATURE FOR CACHE AIR GROUND