



Stockpiling Medical Countermeasures for Chemical Threats

How Can We Create Preparedness?



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Scoping the Problem



- Chemicals are everywhere
 - More than 120 chemicals listed on the DHS Chemical Terrorism Risk Assessment
- Chemicals are fast
 - Symptoms can appear within seconds
 - Death can occur within minutes to hours
- No time to send a push package out from the SNS



How can Stockpiled MCMs Help??

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CHEMPACK



- The CHEMPACK program is an ongoing initiative of the DSNS through which antidotes to nerve agents are forward deployed for civilian use.
- CHEMPACK containers are self-contained units placed in centralized locations to enable first responders to quickly administer life-saving antidotes and save lives.

CHEMPACK is a back-up for local supplies.



Why CHEMPACK?



- SNS has a 12-hour response time, too long in the event of a chemical attack
- State and local governments have limited or no chemical/nerve agent antidote stocks
- Hospitals carry very limited supplies of treatments for nerve agent exposures
- Nerve agent antidotes are costly and have variable shelf lives--**not an easily sustainable resource**

How can we make it better??

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Improved Drugs for CHEMPACK Improved Drugs for the Community



- Midazolam as an improved anticonvulsant
 - For nerve agents **AND** status epilepticus
 - For adults **AND** children
 - In easy-to-use autoinjectors
- Midazolam has the highest potency, fastest seizure cessation against nerve agent challenge
- IM Midazolam is non-inferior to IV Lorazepam against status epilepticus in RAMPART study



*BARDA is supporting the development of
Midazolam for **both** indications*

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Stockpiling for Chemical Response



- Get it there fast—*have it there already*
- Drugs with everyday uses—and chemical MCM applications
 - Example: anticonvulsants
 - Example: burn dressings
 - Example: cyanide antidotes/smoke inhalation treatments
- Advantages of ‘user-managed inventory’
 - Minimized amount of unused and expired product
 - Community familiarity
 - Easy access in emergency

Fast Action Saves Lives

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United States Department of
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Thank You!