



## Lesson Two – The Strategic National Stockpile – An Overview

SNS Learning Team  
April 16, 2019

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### Learning Objectives

- Participants will be able to...
- List key components of the SNS
- Describe SNS role as part of an alternate supply chain
- Describe SNS response methods
- Describe SNS-specific response roles in a public health emergency



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## SNS Essential Elements

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### SNS Mission

- Prepare and support partners and provide the right material at the right time to secure the nation's health



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### SNS Purpose

To supplement and re-supply state and local public health agencies in the event of an emergency



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### Why Do We Stockpile?

Stockpiled material is normally held for one or more of the following reasons:

- Product not commercially viable
- Pharmaceutical supply chain under a just-in-time model, consequently a commercial product:
  - ✓ May not be available in quantities required
  - ✓ May be available but cannot reach affected populations in adequate timeframes and/or in adequate quantities
- Commercial supply chain not optimized to dispense to the population at the level required (time or volume)

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### What Threats Do We Plan For?

- Bioterrorism or Natural Occurrence
  - Biological – smallpox, anthrax, botulism, viral hemorrhagic fevers, plague & tularemia
- Intentional or Accidental Release
  - Chemical – nerve agent
  - Radiological / Nuclear
- Emerging Infectious Disease
  - Pandemic influenza
- Natural Disasters
  - Hurricanes and floods



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### How do you counter those threats?

- The SNS is the U.S. repository of emergency medical countermeasures (MCMs)
- Stockpiled MCMs include, but are not limited to:

Antibiotics	Chemical antidotes
Antitoxins	Vaccines
Antiviral drugs	Medical supplies

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### How many products are in the SNS?

- Over \$8 billion of life-saving medical material
- Sites strategically positioned to optimize deployment
- 1.6M Square Feet (28 Football Fields) – Six levels high
- Over 1,600 Line Items



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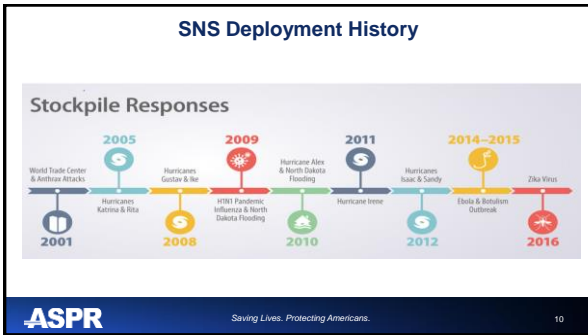
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### SNS Deployment History 2017- 2018

- Hurricane Harvey
- Hurricane Irma
- Hurricane Maria
- Hurricane Florence

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### Strategic National Stockpile - An Alternate Supply Chain

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### SNS – An Alternate Supply Chain

- SNS supplements existing state medical materiel supplies
  - Local supplies
  - Local purchases
  - State supplies
  - State purchases
- SNS remains active as long as needed
- SNS deactivates as soon as feasible



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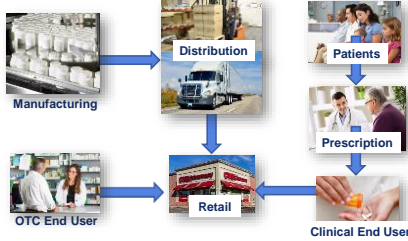
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### Normal Supply Chain



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**Crisis**

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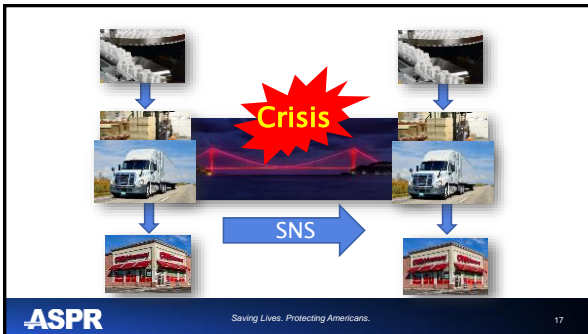
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## How do you request products from the SNS?

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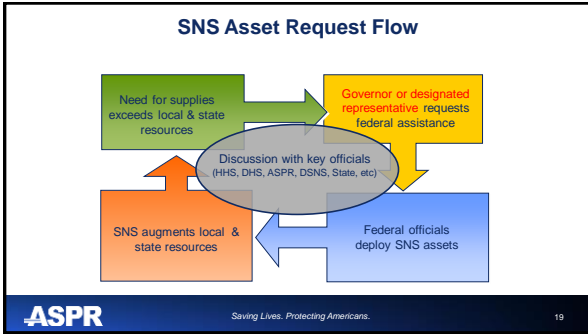
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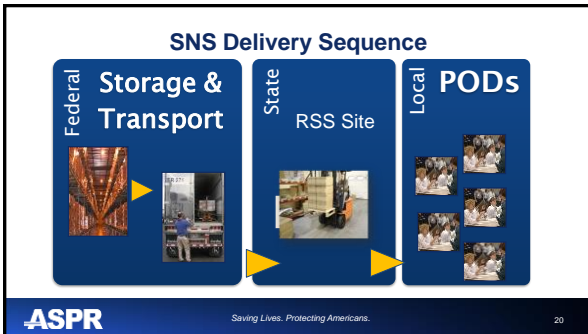
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### What are the SNS Response Capabilities?

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### SNS Response Capabilities



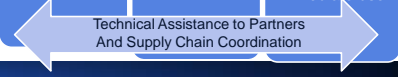
Large Quantities to meet specific requirements




Containerized broad spectrum support



Forward deployed assets for immediate use





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### SNS Response Capabilities

#### Large Quantities to meet Specific Requirements

- Managed Inventory (MI)
- Vaccines
- Federal Medical Stations (FMS)







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### Large Quantities to meet Specific Requirements

#### Managed Inventory

- Majority of SNS medical materiel
- Stored and maintained by SNS or commercial partners
- Usually shipped on pallets





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### Large Quantities to meet Specific Requirements Vaccines

- Maintain specific vaccines and anti-toxins
  - Smallpox
  - Anthrax
  - Botulism
- Coordinate delivery of additional vaccines



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### Large Quantities to Meet Specific Requirements Federal Medical Stations (FMS)

- Low- to mid-acuity of care
- Needs an existing facility
- Used as:
  - Medical special needs shelters
  - Quarantine function
  - Alternate care facility



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### SNS Response Capabilities Containerized Broad Spectrum Support

- Delivered by world-class transportation partners
- May be sent in addition to managed inventory on pallets
- May be flown into the state, but will be driven to the delivery site



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### Containerized Broad Spectrum Support 12-Hour Push Package Configuration

- 47 Red
- 55 Yellow
- 15 Blue
- 9 Pink
- 1 White
- 3 Place Holders
- 130 Total Containers

- Oral Antimicrobials
- IV Drugs and Admin Sets
- Airway Mgt Supplies
- Ped Airway Mgt Supplies
- Med Surge / Burns
- Place Holders

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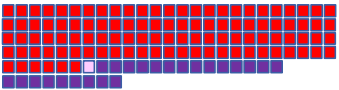
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### Containerized Broad Spectrum Support Containerized Antibiotics

- 106 Doxy Containers
- 1,310,400 bottles
- 23 Cipro Containers
- 327,600 bottles
- One Mixed container
- 9,000 Doxy bottles
- 2,100 Cipro bottles
- Over 1.6 million 10-day unit of use bottles



- Doxycycline
- Ciprofloxacin
- Mixed Cipro / Doxy

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### SNS Response Capabilities Forward Deployed Caches for immediate use: CHEMPACK

- Nationwide "joint venture" program – Federally owned but locally controlled
- Forward placement of nerve agent antidotes in secure locations
- Containerized storage
- Remote monitoring
- Two configurations



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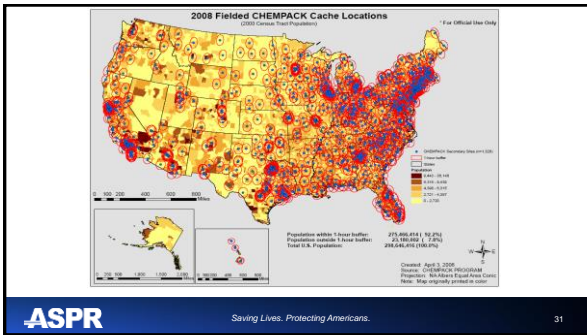
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### SNS Response Capabilities Technical Assistance to Partners and Supply Chain Coordination

- Response Teams
- Exercises and evaluations
- One-on-one assistance
- In-person training
- Online Training



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### Providing Assistance During an Event

- DSNS Operations Center on-call assistance
- SNS Liaison Officers
- On-site technical assistance tailored to meet the need (logistics, planning, etc)
- FMS Strike Teams - 8-hour recall, provides setup assistance
- Self-sufficient



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### Exercise and Evaluations

- Validation Team can provide:
  - Technical expertise for planning SNS supported exercises.
  - Controller, simulator, player, and evaluator during the conduct of exercises.
  - Facilitates discussion-based and request for assistance exercises.
  - Provides simulated material for distribution exercises.
  - Links to DSNS subject matter expertise for planning and conduct support.

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### What training does SNS provide?

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### In-person Training

- Introduction to SNS Operations Course
- Receive, Store and Stage (RSS) Operations Course




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### Introduction to SNS Operations Course

- For state, regional, & municipality planners & managers
- Center for Domestic Preparedness – Anniston, AL
- Focuses on supply chain management - followed by dispensing operations
- Collaborative training with the Division of State and Local Readiness

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### RSS Operations Course

- Specifically addresses RSS warehouse operations
- RSS managers, planners, & supervisors
- SNS trainers present at state locations
- Tailored to the needs of the jurisdiction
- Can be VERY hands-on




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### Courses on TRAIN

- SNS Overview – 1 Hour - Course ID:1059349
- Safe Handling of a 12-hour Push Package Container – 15 Minutes – Course ID: 1058297
- RSS Warehouse Floor Marking Video – 20 Minutes – Course ID: 1052978




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### Courses on TRAIN

- Closed Points of Dispensing – A Stockpile Perspective – 90 Minutes – Course ID: 1055915
- Mass Dispensing Overview – A Stockpile Perspective – 1 Hour - Course ID: 1054681



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### SNS Webinars

- Extending Expiration Dates of Stockpiled Doxycycline for Anthrax Preparedness: Overview of FDA Guidance for Government Stockpilers on Sep 20, 2017– 90 Minutes - Course ID: 1072608\*



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### SNS Webinars

- Introduction to CDC's Strategic National Stockpile, May 3, 2017– 1 Hour– Course ID: 1069826
- Crisis and Emergency Risk Communications in a Strategic National Stockpile Response, February 21, 2017 | Course ID# 1076022



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### SNS Pharmaceutical Supply Chain Webinar Series

- Navigating the Pharmaceutical Supply Chain, May 10, 2016 – 1 Hour – Course ID: 1068117
- Partnering with the Pharmaceutical Supply Chain - Oct 13, 2016 – 1 Hour - Course ID: 1068919




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### SNS Pharmaceutical Supply Chain Webinar Series

- Principles of Pharmaceutical Regulation, June 23, 2016 – 1 Hour – Course ID: 1068316
- Understanding Drug Shortages – June 6, 2016 – 1 Hour - Course ID: 1068323




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### Summary

- SNS is THE U.S. repository of emergency MCMs
- The SNS mission is to prepare and support partners with the right materiel at the right time
- SNS partners with numerous SMEs and a variety of federal, public, private, and non-governmental agencies
- SNS will continue to explore opportunities to enhance efficiencies in the medical countermeasure supply chain system

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### Summary




TurningPoint




PowerPoint Polling



Anywhere Polling



Self-Paced Testing



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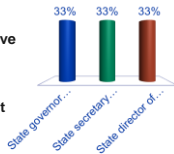
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### DSNS products are requested by? (Select one)

- A. State governor or designated representative
- B. State secretary of state
- C. State director of emergency Management



Category	Percentage
State governor...	33%
State secretary...	33%
State director of...	33%

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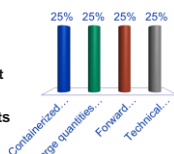
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### Which of the DSNS response methods includes the shipment of MI to the site of a public health emergency? (Select one)

- A. Containerized broad spectrum support
- B. Large quantities to meet specific needs
- C. Forward deployed assets for immediate use
- D. Technical assistance



Category	Percentage
Containerized...	25%
Large quantities...	25%
Forward...	25%
Technical...	25%

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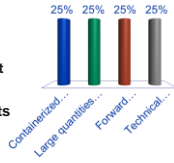
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Which of the DSNS response methods includes deploying Liaison members to the site of a public health emergency? (Select one)

- A. Containerized broad spectrum support
- B. Large quantities to meet specific needs
- C. Forward deployed assets for immediate use
- D. Technical assistance



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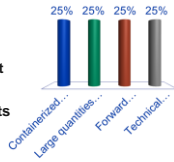
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Which of the DSNS response methods includes this training course? (Select one)

- A. Containerized broad spectrum support
- B. Large quantities to meet specific needs
- C. Forward deployed assets for immediate use
- D. Technical assistance



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Questions?

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### IMPORTANT: Slide Dimensions

- This template is formatted with 16:9 dimensions, which is the standard for displaying your presentation on wide-screen monitors.
- Do NOT change the dimensions to the old standard of 4:3.
  - Your presentation will not display properly on screens.
  - It squeezes the logos, which is a violation of HHS and ASPR branding standards.
  - It also squeezes any template and other images placed in the 16:9 version, creating an unprofessional appearance.

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### List Slide Title is Arial Bold, 28pt

- First level text should be Arial, 22pt with a solid bullet.
  - Second level lists are Arial, 20pt with a solid square. Do not use open bullets. Press the Tab key from the first level list to get to this style.
    - ✓ Third level lists are Arial, 18pt with a check mark bullet.

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