Federal Medical Resource Support for a Natural Disaster:

Federal Medical Station and Strategic National Stockpile

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Overview

- Strategic National Stockpile (SNS) resource support
- Federal Medical Station (FMS) program concept
- Notional deployment sequence
- FMS resupply
The Strategic National Stockpile Mission

Prepare and support partners and provide the right resources at the right time to secure the nation's health
History of DSNS

- 1999, Congress charged the Department of Health and Human Services (HHS) and CDC with the establishment of the National Pharmaceutical Stockpile (NPS).

- 2003, NPS became the Strategic National Stockpile (SNS)

- Domestic and International DSNS Support
  - 2002 Utah: Winter Olympic games
  - 2004 Georgia: G8 Conference
  - 2005 Presidential Inauguration
  - 2005 Hurricane Katrina & Rita
  - 2006 Michigan: Super Bowl XL
  - 2007 Hurricane Dean
  - 2008 Hurricane Gustav, Hanna & Ike
  - 2008 Republican and Democratic Conventions
  - 2009 Presidential Inauguration
  - 2009 H1N1 Response
  - 2009 & 10 North Dakota Floods
  - 2010 Haiti Support
  - 2011 Japan Tsunami
Notional SNS Resource Deployment to Support a Natural Disaster

- **Incident**
- **State/HHS REC**: Prepare ARF
- **FEMA Reviews/Approves ARF**
- **FEMA Issues MA to HHS/ESF-8**

**HHS/ESF-8 tasks**
- CDC SNS for Available Resources

**CDC/SNS Deploys Medical Resources**

**State RSS Receives Medical Supplies**

**Medical Resources Transported to Necessary Locations**

**IRCT LOG Receives Resupply Orders and Submits Orders to SNS**
Key SNS Products to Help Natural Disaster Victims

- **Antibiotics**
  - Broad Spectrum
  - 12 Hour Push Package / Managed Inventory

- **Wound Care**
  - Bandages/Gauze,
  - Laceration Repair Kits
    - Sutures, Skin Staplers
    - Antibiotic Ointments and Burn Creams
    - Lidocaine with and without epinephrine
Key SNS Products to Help Natural Disaster Victims

- **Fluids/Electrolyte Replacement**
  - Lactated Ringers
  - Normal Saline
  - Dextrose Solution
  - Potassium Chloride

- **Pain/Sedation Medications**
  - Oxycodone/Acetaminophen
  - Morphine
  - Midazolam
Key SNS Products to Help Natural Disaster Victims

- **Respiratory Support**
  - Ventilators
  - Manual Pulmonary Resuscitators
  - Albuterol Solutions and Nebulizers
  - Oxygen Nasal Cannulas and Non-Rebreather Masks
  - CO2 Detectors
  - Endotracheal Tubes and Stylettes
  - Laryngoscopes
  - Aspirators
  - Suction Canisters, Suction Catheters
  - Nasogastric Tubes
Acquiring Items From Private Vendors

- In cases where CDC does not stock an item, the SNS will procure and have product delivered. These items may include vaccines or antitoxins, or other medical supplies needed to support a particular event.

- Possible issues:
  - Possibly longer response time
  - Order tracking more complex
  - Subject to market availability
FMS Program

- **Assistant Secretary for Preparedness and Response: Program Management & Policy**
  - Strategic program direction, program guidance, set objectives
  - Lead concept-of-operations development
  - Integrate FMS partners into coherent response capability
  - Review and approve formulary
  - Incident response coordination team (IRCT)

- **Division of Strategic National Stockpile: Life Cycle and Response Management**
  - Materiel management: acquisition, storage, configuration for deployment, life cycle management
  - Response: materiel deployment, facilitate FMS set-up, transfer FMS to approved authority and facilitate resupply if needed
  - Recommend formulary changes as required
FMS Mission

Provide a modular, scalable (in size), and rapidly deployable medical capability to shelter and care for displaced individuals who have non-acute medical, mental health, or other health-related needs that cannot be accommodated or provided for in a general shelter population.
Capabilities

FMS provides the following critical capabilities:

- Inpatient, non-acute treatment capability for areas where hospital bed capacity has been exceeded
- A special needs shelter for displaced persons with chronic diseases, limited mobility, or behavioral health requirements
- Support to quarantine missions isolating persons suspected of being exposed to or affected by a highly contagious disease
Quickly turns a building of opportunity into a **temporary** medical shelter

- **Modular, scalable** and **tailor-able** to the incident

- Modeled for **all age** populations

- Transports by ground or air for rapid maximum geographic distribution

- Deploys with **supplies and equipment** to care for 250 non-acute and special needs patients for up to **three days**

- **Re-supply** from prime vendors, coordinated by FMS logistics chief or logistical response assistance team (LRAT) to the IRCT

- Accompanied by DSNS FMS strike team
Scalable Footprint for Disaster Relief

- Each 250-bed FMS is scalable
  - 250-bed FMS set requires approx. 40,000 sq. ft.
  - 100-beds from this set require approx. 25,000 sq. ft.
  - 50-beds from this set require approx. 15,000 sq. ft.
- Adaptable to footprint that may include multiple buildings or floors
- Americans with Disabilities Act considerations
- Requires at least one doorway with a 6’ wide opening
FMS – Initial Time to Operation

- Turn-around-time up to 48 hours from the time of request to the time of delivery within the Continental United States
- FMS sets are pre-staged throughout the United States for timely responses to higher threat areas.
- 12 hours for initial operating capability (IOC)

60 total hours
Notional FMS Deployment

Incident

State/HHS REC Prepare ARF

FEMA Reviews/ Approves ARF

FEMA Issues MA to HHS/ESF-8

ESF-8 EMG Receives MA

FMS Staging Area

Operational FMS

FMS LOG

EMG Subtasks
CDC SNS for FMS Set

CDC Deploys FMS Strike Team

CDC Executes FMS Deployment

IRCT LOG receives orders from the FMS and submits orders to Prime Vendors or Resource Providers

Prime Vendor Ships Directly to Site

Host Support Services

FMS LOG
Staff and Resupply
Several teams may staff an FMS when it is deployed.

- United States Public Health Rapid Deployment Force (RDF)
- Disaster medical assistance teams (DMAT)
- Department of Veterans Administration Disaster Emergency Medical Personnel System (DEMPS)
- Federal staffs should be augmented with LOG specialists or LRATS
- State personnel
- Volunteers

There may be a partnership of teams staffing a site. Such as members for the DEMPS and DMAT/RDFs.
FMS Resupply

FMS resupply is managed by the IRCT logistics section.

IRCT
Review/Approve

HHS
MSC

HHS PHARM PV

HHS Med/Surge PV

FMS SITE
PHS/LOG CHIEF/LRAT

Orders
Material Shipment
FMS Support Services

- Security Services (Internal/External)
- Food Service
- Potable Water
- Ice
- Laundry
- Janitorial Duties
- Waste Removal/Biohazard Waste Disposal
- Ambulance Service
- Transportation
- Medical Oxygen
- Mortuary Services
- Forklift and Material-handling Equipment
Questions?

For more information please contact Centers for Disease Control and Prevention

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.