The State Medical Response System of Mississippi
Define Disaster

Needs > Resources = Disaster

When the need for resources is (or will be) greater than the resources available, you have a disaster.
Response System - Scope & Scale

Escalating Incident

Local Response
State of Mississippi

• The Mississippi Comprehensive Emergency Management Plan signed by the Governor

• Mississippi Emergency Management Law, MS Code Ann. § 33-15(1972)

• Emergency Support Functions (ESF)

  - ESF 1 – Transportation
  - ESF 2 – Communication
  - ESF 3 – Public Works
  - ESF 4 – Firefighting
  - ESF 5 – Emergency Mgmt
  - ESF 6 – Human Services
  - ESF 7 – Resource Support
  - ESF 8 – Public Health & Medical
  - ESF 9 – Search and Rescue
  - ESF 10 - HazMat
  - ESF 11 – Agriculture
  - ESF 12 – Energy
  - ESF 13 – Law Enforcement
  - ESF 14 – Long Term Recovery
  - ESF 15 – External Affairs
Mississippi ESF-8 Overview

- Under the Mississippi Comprehensive Emergency Management Plan (CEMP), Mississippi Emergency Management Agency (MEMA) coordinates emergency responses in a systematic manner.

- Emergency Support Function-8 (ESF-8) Public Health and Medical Services
  - Lead Agency: Mississippi State Department of Health
  - Primary Agencies:
    - Mississippi State Department of Health
    - University of Mississippi Medical Center
Hurricane Katrina
State Medical Response System

- System comprised of various ESF-8 response resources
  - Key Partnerships
  - Medical Reserve Corps
  - State Medical Assistance Teams
  - FAST Teams
  - Mississippi Med-Com
- Enhanced coordination and collaboration to support local response efforts
State Medical Response System

- State assets designed to support local response efforts
- Scalable design to meet event or incident needs
- Coordinated by the Mississippi State Department of Health, Office of Emergency Planning and Response
- Collaboration with the University of Mississippi Medical Center
- System relies on participation from local professionals supporting Mississippi when needed
Key Hospital Partnerships

• Championed by the Mississippi Hospital Association
• MOU developed to strengthen the collaboration among Mississippi hospitals and improve community resiliency
• Provides a clear mechanism for participation at various levels in support of medical response efforts
• Enhances medical surge capabilities across the state
Medical Reserve Corps

- Local volunteers of healthcare professionals and non-clinical training
- Integrates volunteers and first responders for emergency response
- Provides manpower for various state teams
- Partnerships with faith-based organizations for logistical support teams
Team Members

• All team members undergo the same training and rely heavily on one another to meet the mission of the SMRS.

• The teams are made up of professionals from many different fields of expertise - examples include...

  - Law Enforcement
  - Physical Plant
  - Nursing
  - Administrative
  - EMT/Paramedics
  - Communications

  - Physicians
  - Logistics
  - Hazmat Technicians
  - Mental Health Professionals
  - Pharmacists
  - IT
Group Training

• All team members complete a tailored training program for their specialty.
• Basic foundation on command structure and response system design.
• Advanced skills for clinical and non-clinical team members.
Mississippi Responder Management System (MRMS)

- On-line registry for volunteers
- Used for all SMRS teams
- Credential verification
- Two-way communication system
- Mission request and tracking
Mobile Field Hospitals

State Medical Assistance Teams (SMAT) Type II
SMAT-II

- State Medical Assistance Team, Type II
- During a declared disaster, SMATs are a resource of the Mississippi State Department of Health.
- They will be requested and activated by the Mississippi Emergency Management Agency (MEMA) as an ESF-8 resource.
- The teams may be requested by other states across the nation to respond to major events.
Mobile Field Hospitals

• 50 bed Mobile Field Hospitals to support impacted healthcare systems
• Three systems in Mississippi
• Provides the state of Mississippi an effective, all-hazards solution for medical surge scenarios
• All hazards response platform capable of support various missions
All Hazards Ready

• Mission Profiles
  - Disaster Medical Care
  - Alternate Care Site
  - WMD/Decon Response
  - Contingency Management
  - Drug Distribution
  - Event Medical Support
Mobile Response Trailer System (MRTS)
TeleHealth

- Connected to UMMC Office of TeleHealth
- Advanced technology allows specialty support on scene
  - Cardiology
  - Emergency Medicine
  - Neurology
  - Psychiatry
  - Radiology
- TeleHealth greatly enhances the services offered in a field environment
SMAT-II Supply Trailers

- Smaller trailer transport clinical equipment and supplies
- Biomedical Cache
  - Cardiac Telemetry
  - Ultrasound
  - Ventilators
  - IV Pumps
- Connect via boot system
Mobile Field Hospital
SMAT Type III

- Field unit to support local emergency responders with on-going mass casualty incident management
- Partnership development with local Fire/EMS agencies
- Transitional asset for SMAT System
- Rapid support for local response efforts
SMAT-III

STATE MEDICAL ASSISTANCE TEAM
National Mobile Disaster Hospital

- Regional/National asset assigned and operated by North Carolina Office of EMS
- Fully interoperable with SMAT assets
- Enhanced field medical capabilities
  - 21 bed ED
  - 12 bed ICU
  - 2 ORs
  - 6 bed Pre/PostOp

Photograph courtesy of the North Carolina Office of EMS
MISSISSIPPI-1 DMAT

- Disaster Medical Assistance Team
- DMATs are designed to be a rapid-response element to supplement local medical care until other Federal or contract resources can be mobilized, or the situation is resolved.
- DMATs deploy to disaster sites with sufficient supplies and equipment to sustain themselves for a period of 72 hours while providing medical care at a fixed or temporary medical care site.
- The personnel are activated for a period of two weeks.
Meeting the Needs of Mississippi
Response System - Scope & Scale

Escalating Incident

Local Response
New Addition

• Designed to address the needs identified in previous exercises

• Three primary missions
  - Specialty Care
  - Medical Mitigation
  - Mobile Training Platform
2014 Tornado Response

- Second real-world SMRS mission
- Tornadoes severely impacted city of Tupelo in Lee County and Winston County including the city of Louisville
- FAST Teams were part of a composite response sent to both Tupelo and Louisville
  - Tupelo did not require any state level assistance
  - The Winston County Medical Center took a direct hit and was unable to continue services
Louisville Response Continued

- The SMRS FAST Team and members from the Mississippi State Department of Health’s Bureau of Emergency Medical Services coordinated the evacuation of both the Winston County Medical Center and Winston County Nursing Home.
- AmbuBuses, EMS, and other transportation assets were used for patient movements.
- Med-Com coordinated patient movements.
Louisville Response Continued

- A preliminary Field Hospital was established in the Wal-Mart parking lot using the METTS
- The Field Hospital was staffed by multiple SMAT teams in order to support and maintain the local healthcare system
- The Field Hospital was relocated to a more suitable and permanent location and expanded upon to support the extended mission
Louisville Recovery

- A National Mobile Disaster Hospital was requested, received and setup to support the long term recovery of the local healthcare system.
- Winston County Medical Center Staff were trained on the use of the SMRS Field Hospital and assumed providing healthcare for those in the community.
- Later the staff would be trained on the MDH and transition there.
Upcoming

• SMRS Hospital MOU expansion
• Team member recruitment drives
• Region IV collaboration on various Mission Ready Packages
• Pediatric-specific capability development
• 2017 Full Scale Exercise Planning
Have we made a difference?
Response System - Scope & Scale

Escalating Incident

Local Response
Response System - Scope & Scale

Local Response

FAST Teams

Escalating Incident
Response System - Scope & Scale

Local Response
FAST Teams
SMAT - III
EMS Support

Escalating Incident
Response System - Scope & Scale

- Local Response
- FAST Teams
- SMAT - III EMS Support
- SMAT - II Mobile Field Hospital

Escalating Incident
Response System - Scope & Scale

Local Response  FAST Teams  SMAT - III EMS Support  SMAT - II Mobile Field Hospital  Multiple SMRS Teams
Response System - Scope & Scale

- Local Response
- FAST Teams
- SMAT - III EMS Support
- SMAT - II Mobile Field Hospital
- Multiple SMRS Teams
- All SMRS Teams
Response System - Scope & Scale

Local Response
- FAST Teams
- SMAT - III EMS Support
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- Multiple SMRS Teams
- All SMRS Teams
- External Response

Escalating Incident
Where are we now?

• December 2012, USA Today - Report: States losing ground in emergency preparedness
• From The Trust for America’s Health and Robert Wood Johnson Foundation
• Evaluated states on key indicators
  - Chemical terrorism response
  - Staffing for prolonged infectious disease outbreak
  - Accredited emergency management program
  - Multihazard evacuation plans on file
  - Meeting the federal vaccination goal
  - Nurses’ ability to practice in other states
  - Timely notification of public health staff
Mississippi was one of five states to tie for the highest score!
In closing

• Our state has made significant strides over the past several years to support its citizen’s healthcare needs after a disaster.
• Implemented a systematic approach design to support the local response and integrate with larger responses.
• Recent events demonstrate the need for continued preparedness.
• Anyone can help play a part!
Discussion

signupms.org
Current SMRS Trainings Available

- Deep South Biosafety Consortium
- Triage Tuesday
- First Hands
- BEMS Biosafety
- SMRS Expo
Deep South Biosafety Consortium

- Consortium of UAB, Alabama Fire College and UMMC to provide worker bio-safety training. Courses are scheduled across MS in a variety of locations and dates. Three levels of instruction: Awareness, Operations, and Train-the-Trainer
Deep South Biosafety Consortium

- **Course Goal:** Increase awareness about health and safety for a broad spectrum of workers who work in industries with potential exposure to infectious material.

- **Course Learning Objectives:**
  - Understand key elements of the chain of infection
  - Recognize basic facts about selected infectious diseases
  - Identify how workers in affected occupations may be exposed
  - Define key steps in worker protection and infection control
  - Understand relevant government standards, regulations, and guidelines

If you are interested in scheduling one of our trainings, please contact the Deep South Biosafety Worker Training Program at dsbwtp@uab.edu or HPP4MS.com
First Hands

- **OBJECTIVE 1:** Describe role in affecting mortality and morbidity in MS and proper utilization of MS Med-Com for resource acquisition.
- **OBJECTIVE 2:** Identify and manage with proficiency hemorrhagic, airway, breathing, and circulation life-threatening conditions to include proper tourniquet application.
- **OBJECTIVE 3:** Recognize and comprehend multiple life-threatening conditions and apply basic life-saving care for a variety of critical medical emergencies.
- **OBJECTIVE 4:** Discuss and demonstrate proper communications are utilizing State-wide MSWIN frequencies, proper utilization of Special Events frequency for regional events and general radio components and settings.
- **OBJECTIVE 5:** Identify criteria for air evacuation, properly recognize and prepare the area for aircraft landing, and demonstrate proper air-to-ground communications.

For more information contact the Mississippi Center for Emergency Services, Public Safety Division (Jeremy Benson/Kevin Sanderson) via email at publicsafetysupport@umc.edu or HPP4MS.com
BEMS PPE Training

• A partnership of the MSDH BEMS to deliver bio-safety training for first responders and first receivers. Courses are scheduled across MS in a variety of locations and dates. Times are being developed to deliver the content after normal business hours to accommodate our “Volunteer” providers

For more information contact Heath Williams at chwilliams@umc.edu or HPP4MS.com
Triage Tuesday

• Partnership with MSDH OEPR, BEMS and Trauma regions
• First Tuesday of each month
• SALT triage system and triage card usage for EMS and first receiver facilities

• For more information contact Heath Williams at chwilliams@umc.edu or HPP4MS.com
SMRS Expo

- March 27-31 Biloxi (MSU Extension Service)
- April 17-21 Jackson (State Fire Academy)
- Courses scheduled include
  - Biosafety Training
  - First Safety Training
  - Triage Tuesday Training
  - Pediatric Specific Training
  - Basic and Advanced Life Support

For more information contact HPP4MS.com