Federal Innovations in Emergency Medical Services, Management, and Operations

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Principal Deputy Assistant Secretary (PDAS)
Office of the Assistant Secretary for Preparedness and Response (ASPR)
US Department of Health and Human Services (HHS)
Our Mission:
“Lead the country in preparing for, responding to, and recovering from the adverse health effects of emergencies and disasters by supporting our communities’ ability to withstand adversity, strengthening our health and response systems, and enhancing national health security.”
ASPR Works With Partners from Local Communities to Global Institutions

- ASPR has a variety of stakeholders and partners in the community which helps enable a more robust response to emergencies and planning in steady state.

- Public health
- Congress
- Private Sector
- Academia
- Faith-based community Organizations
- Global Institutions
- Inter-governmental
- Research Institutes
- State, Local, Tribal governments
- Emergency Medical Services
- Various Other Associations
Operational Response to Events

Events come in “all shapes and sizes”, and are both expected and unexpected!
Emergency Support Function (ESF)-8 is the mechanism for Federal assistance to supplement State, tribal, and local resources in response to a public health and medical disaster, potential or actual

- Public health and medical care needs
- Behavior health needs
- Veterinary and/or animal health issues
National Disaster Medical System (NDMS)

- Mission is to temporarily supplement Federal, State, and Local response capabilities by funding, organizing, training, equipping, and deploying a specialized and focused range of public health and medical personnel/capabilities.

- DMAT, DMORT, NVRT teams
HHS Response Assets
Support Local/State Needs

- US Public Health Service (USPHS) Commissioned Corps
  - Rapid Deployment Force (RDF) Team
  - Mental Health Team

- Medical Reserve Corps (MRC)
  - National network of local groups of volunteers supporting local health departments respond to community health needs
Emergency Response

- Medical Shelter Support
- Disaster Behavioral Health
- General Shelter Support (Human or Animal)
- EOC Support
- Vaccinations/Mass Dispensing
- Hospital ACS/Med Surge
- Wellness Checks

- Radiological Reception Centers
- Search and Rescue
- Volunteer Reception Center
- Mass Casualty
- Evacuation
- Call Center/Communications Support
- Epidemiology/Surveillance Support
- Animal/veterinary care
Response Example: Ebola

**Domestic Issues**
- Coordination of response (elected officials, hospitals, EMS, police/fire, EM, DOT, waste management/disposal)
- Public Information
- Responder safety & PPE
- Health System Preparedness

**International Issues**
- Travel screening & quarantine
- Disease Transmission
- International Response
Response Example: Ebola

U.S Strategy was predicated on four key goals:

1. Controlling the epidemic at its source in West Africa;
2. Mitigating second-order impacts, including blunting the economic, social, and political tolls in the region;
3. Engaging and coordinating with a broader global audience; and
4. Fortifying global health security infrastructure in the region and beyond.
Recent Response: Louisiana Flooding

- ASPR engaged with FEMA, Regional Partners, and State and locals to ensure a successful response in Louisiana.

- Areas of focus:
  - DMAT and surge needs
  - Pharmacy and Hospital status
  - EPAP
  - Healthcare Coalition outreach and communications
  - Shelters
  - Mental Health Services
  - Child Services
  - EMPOWER
  - Impacts to aging adults and those who depend on medical equipment in the home
On the Forefront: ZIKA

- What is HHS/ASPR doing?
  - Assisting state and locals
  - Vaccine and Medical Counter Measure development and clinical trials
  - Working with the interagency
  - Developing plans
  - Sharing information and promoting awareness
  - Providing aid to Puerto Rico (now through PHE Declaration)
On the Forefront: Zika and Puerto Rico

- Current UCG Structure and rotational staff
- On-Ground and deployable assets
- Synchronize interagency efforts as well as coordination among Federal and Commonwealth partners
- Media Coverage and sending coordinated messages
- Vector Control Coordination
- Behavioral Mental Health
- Empower the Commonwealth to enable long term management
HHS Programs Support Community Needs

- CMS Section 1135 Waiver
  - HHS Secretary may waive or modify certain Medicare, Medicaid, CHIP, and HIPAA requirements

- Emergency Prescription Assistance Program (EPAP)
  - EPAP provides co-pay coverage of prescription and DME for uninsured or underinsured victims

- Advanced Registration and Credentialing (ESAR-VHP)
  - System allows states to register and confirm credentials of volunteer health professionals pre-event

- Initiatives and Partnerships:
  - Healthcare Coalitions
  - Private Sector Engagement
Centers for Medicare & Medicaid Services (CMS) recently finalized a rule to establish consistent emergency preparedness requirements for health care providers participating in Medicare and Medicaid.

Rule requires certain participating providers and suppliers to plan for disasters and coordinate with federal, state, tribal, regional, and local emergency preparedness systems to ensure that facilities are adequately prepared to meet the needs of their patients during disasters and emergency situations. This also helps ensure patient safety.

- Effective as of November 16, 2016
- Implementation date of November 16, 2017
HHS Programs Support Community Needs

- PREP Act
  - Issued by the Secretary of the Department of Health and Human Services
  - PREP Act Declaration provides:
    - “immunity from liability for any loss caused, arising out of, relating to, or resulting from administration or use of countermeasures to diseases, threats and conditions determined in the Declaration to constitute a present or credible risk of a future public health emergency”.
    - Liability immunity applies to entities and individuals involved in the development, manufacture, testing, distribution, administration, and use of medical countermeasures described in a Declaration.
ASPR OEM Fusion: Mission

Fusion’s mission is to provide enhanced situational awareness and support informed decision making for OEM & ASPR leadership during public health emergencies and disaster events.
Fusion Capabilities / Inventory

- Geographic Information Systems (GIS) / GeoHEALTH Platform
- Social Media Research / Babel Street, Hootesuite, Now Trending
- Fusion Analytics / Statistical Analysis Software (SAS)
- Demographic Reports / Community Analyst
- Bed Availability / HAvBED
GIS / GeoHEALTH

FLEXIBLE:

- Data and Models:
  - Open source data services (NOAA, USGS) easily added and displayed
  - Restricted data (healthcare infrastructure, census, OEM internal data)
  - Layered Models (storm surge, hurricane wind speed, CBRN plumes)
  - Ability to load/view local data (CSV, TXT, KML, etc.)

- Can pre-configure maps to improve access to information

ACCESSIBLE:

- Ability to share live, dynamic maps and data
- Several open data sets
- Functions on all types of devices (iOS, Android, PC)
- Small learning curve
Social Media Research

2013
- Flu
- 2013 Inauguration
- Winter Storms
- State of the Union
- Post-Sandy Mold
- H7N9
- Boston Bombings
- Oklahoma Tornados
- West Nile Virus
- Colorado Forest Fires
- Hepatitis A outbreak
- Heat
- MLK 50th Anniversary
- Fukushima Radiation
- Colorado Flooding
- MERS

2014
- MERS
- State of the Union
- Super Bowl XLVIII
- WV Chemical Leak
- Winter Storms
- Unaccompanied Children
- Peace Officer’s Memorial
- July 4th
- Hurricane Arthur
- Ebola
- Flu
- Meningitis (Oregon)
- Winter Storms
- Typhoon Dolphin (Guam)
- Peace Officer’s Memorial
- HIV outbreak (Indiana)
- HPAI H5N2
- Extreme Heat
- July 4th
- Papal Visit
- UCC shooting
- San Bernardino shooting

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- UCC shooting
- San Bernardino shooting
- State of the Union
- Aliso Canyon Methane Leak
- 4th of July
- Peace Officers Memorial
- Flint Water Crisis
- Nuclear Summit
- Orlando Mass Shooting
- Zika
- RNC
- DNC
- LA Flooding

2016
- State of the Union
- Aliso Canyon Methane Leak
- 4th of July
- Peace Officers Memorial
- Flint Water Crisis
- Nuclear Summit
- Orlando Mass Shooting
- Zika
- RNC
- DNC
- LA Flooding
HHS emPOWER Initiative

Using Federal Health Data and Mapping to Advance Emergency Preparedness, Response, Recovery and Resilience
ASPR EMPOWER Initiative Mission

The mission is to provide readily meaningful, consumable and actionable data, maps, and tools to advance preparedness, inform and support response and recovery operations and decision-making, and to mitigate health system stress and adverse health outcomes in at-risk populations in every community.
HHS emPOWER Initiative

Pre-Event Emergency Planning (De-identified):

- Population-Based Situational Awareness
- Emergency Planning Activities & Plans
- Develop Systems, Processes & Triggers
- Identify Resources for Scenarios
- Sets Stage for Life-Saving Outreach
- Other Considerations

Emergency Response & Notification (De-identified/Individual):

- Activate Emergency Plans
  - Population Based
  - Individual Outreach
- Deploy Emergency Response Assets
- Activate Communications Network
- Other Considerations
HHS emPOWER Initiative:

Integrating Public Health, Emergency Management, Healthcare, & Aging Systems

[Diagram of HHS/ASPR, State Health Departments, Local/Regional Health Departments, Community Partners, Health Care, Emergency Management, Others, Aging Agencies, Fire/EMS]
ASPR TRACIE

- ASPR TRACIE is a healthcare emergency preparedness information gateway that ensures that all stakeholders—at the federal, state, local, tribal, and territorial government levels in nongovernmental organizations and in the private sector—have access to information and resources to improve preparedness, response, recovery, and mitigation efforts. Each domain (TR, AC, and IE) provides users with unique support.

- ASPR TRACIE will fill gaps in healthcare system preparedness capabilities by providing timely, innovative ways to share information and promising practices during planning efforts. In the dynamic environment of a disaster, ASPR TRACIE will leverage resources to better integrate support and will serve as a force multiplier by improving information sharing and minimizing duplication of effort.
ASPR TRACIE: Three Domains

**Technical Resources**
- Self-service collection of audience-tailored materials
- Subject-specific, SME-reviewed “Topic Collections”
- Unpublished and SME peer-reviewed materials highlighting real-life tools and experiences

**Assistance Center**
- Personalized support and responses to requests for information and technical assistance
- Accessible by toll-free number (1844-5-TRACIE), email (askasprtracie@hhs.gov), or web form (ASPRtracie.hhs.gov)

**Information Exchange**
- Area for password-protected discussion among vetted users in near real-time
- Ability to support chats and the peer-to-peer exchange of user-developed templates, plans, and other materials

ASPRtracie.hhs.gov 1-844-5-TRACIE askasprtracie@hhs.gov
The Biomedical Advanced Research and Development Authority (BARDA), within HHS ASPR, provides an integrated, systematic approach to the development and purchase of the necessary vaccines, drugs, therapies, and diagnostic tools for public health medical emergencies.

BARDA Divisions:
- Division of Chemical, Biological, Radiological and Nuclear Medical Countermeasures
- Influenza Division
- Division of Regulatory & Quality Affairs
- Strategic Science and Technology
BARDA and the All-Hazards Principle

Seasonal & Pandemic Influenza Preparedness

All Hazards Preparedness

CBRN Preparedness

Emerging Diseases Preparedness
Medical Countermeasures

Medical Devices  Antimicrobials  Diagnostics  Vaccines  Therapeutics
BARDA Aiding in Response
BARDA’s Response Has Been Global
Stockpile CBRN MCMs under Project BioShield

Smallpox

Radiation

Anthrax

Chemical

Botulism
Seek FDA Approval

Cell-based Influenza Vaccine
- Novartis

Influenza IV Antiviral Drug

H1N1 & H5N1 Vaccines w/ Adjuvant
- GlaxoSmithKline

Recombinant-based Influenza Vaccine
- Protein Sciences Corp.

Anthrax Antitoxins
- HGS/GSK
- Emergent

Botulinum Antitoxin
- Cangene

Next-Generation Portable Ventilators
- Covidian

Flu/RSV POC Diagnostic
- 3M/Focus

Amgen
ASPR on the Web

PHE.gov: www.phe.gov

PHE.gov Newsroom: www.phe.gov/newsroom

Flickr: www.flickr.com/phegov

Facebook: www.facebook.com/phegov

YouTube: www.youtube.com/phegov

Twitter: twitter.com/phegov

ASPR TRACIE: asprtracie.hhs.gov

HHS emPOWER Map: www.phe.gov/empowermap