HHS emPOWER Initiative

Using Federal Health Data and Mapping to Advance Emergency Preparedness, Response, Recovery and Resilience

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National Health Security Strategy and Implementation Plan 2015-2018

1. Build and sustain healthy, resilient communities.

2. Ensure comprehensive health situational awareness to support decision-making before incidents and during response and recovery operations.

3. Enhance the integration and effectiveness of the public health, healthcare, and emergency management systems.

URL: http://www.phe.gov/Preparedness/planning/authority/nhss/Pages/default.aspx
Do you know who lives in your community and what their needs are?

Can we better understand, assess, and mitigate disaster-induced healthcare system stress and its impact on access, utilization, and health outcomes for at-risk populations?

Can we help a community better understand how many at-risk populations rely upon electricity-dependent medical and assistive devices, healthcare services, and their local healthcare system—daily, weekly, monthly?
How can federal health data inform and support preparedness, response, and recovery

- Medicare insures 50 million Americans
  - 50 states, 5 territories, & DC
  - 65+ years, blind, disabled adults & children
  - ~93% of dialysis-dependent end-stage renal disease population
  - ~20% of State Medicaid (mostly disabled)

- Medicare beneficiaries may reside in:
  - personal homes
  - residential or long-term care facilities
  - assisted living communities
  - board and care homes
  - subsidized housing communities
• 611 Had a Ventilator or Oxygen Concentrator
  — 191 homes visited, 75% response rate
  — 93% had Medicare-identified durable medical equipment (DME)

• Individual Preparedness Findings:
  — 15 of 611 were enrolled in NOLA’s registry
  — 8 of 611 were enrolled in electric company’s registry
  — 41% did not have an emergency plan
  — 55% would need assistance in an emergency

NOLA Emergency Response Outreach Uses:
  — 2013 Boil Water Emergency- enteral DME
  — 2014 Ice Storm- early dialysis
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“HHS’ Data and Mapping Quality Improvement Partnership”

DATA

TOOLS

MAPS

• 3.8M at-risk Medicare beneficiaries living at home independently

• Medicare at-risk data types include:
  — Electricity-Dependent Durable Medical Equipment (DME)
    • Ventilators
    • Oxygen concentrators
    • Enteral feeding machines
    • Intravenous (IV) pumps
    • Suction pumps
    • At-home dialysis machines
    • Electric Wheelchairs/scooters
    • Electric Beds
  — Oxygen (O\textsuperscript{2}) Tank Services
  — Dialysis Services (facility/home)
  — Home Health Services

• Medicare at-risk data types include:
  — De-identified-restricted & public
  — Individual-restricted to public health authorities
How Can the HHS emPOWER Initiative Help?


Community Partners
- Open
- De-identified Data
- Preparedness, Response, Recovery, Resilience

Public Health Authority
- ESF-8/6 Support
- Restricted
- De-identified Data
- Preparedness, Response, Recovery, Resilience

Public Health Authority-Only
- Secure
- Individual Data
- Response/Preparedness Outreach

HHS emPOWER Map
Community Public Map-- People Helping People at the Zip Code Level

“Medicare Data Meets NOAA Weather Data In Your Community”

www.phe.gov/empowermap
• Provides more granular de-identified data:
  o Medicare totals by type of DME and healthcare services

• Sample Use Cases:
  o Informing power restoration prioritization decision making at all levels
  o Identifying optimal locations, support, and power needs for multiple devices in general population shelters
  o Assessing potential transportation needs for evacuating or transport to healthcare providers (e.g. dialysis)
  o Anticipating potential EMAC requests for at-risk populations residing by borders
  o Sets the stage for life-saving assistance
**HHS EmPOWER Data At Work In GeoHealth**
Informing Local Planning Scenarios & Response Decision Making

*Adjusted Totals: Medicare beneficiaries are only counted once even if they have multiple types of durable medical equipment (DME) or healthcare service*
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Emergency Response Outreach Individual Dataset

• Purpose is to conduct outreach prior to, during, or after an incident, public health emergency, or disaster that may adversely impact at-risk populations

• Examples of individual outreach use cases:
  – HHS approved preparedness exercises:
    • City of New Orleans, State of Arizona, Broome County/New York State, City of Chicago*, New York City*

  – HHS approved emergencies:
    • City of New Orleans Boil Water Emergency, Dialysis/Ice Storm Emergency
    • Future Responses

• Public health authorities that meet HIPAA requirements can submit a request to HHS via their ASPR Regional Administrator (RA)/Emergency Coordinators (RECs)
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Integrating Public Health, Emergency Management, Healthcare, & Aging Systems

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
Questions
HHS emPOWER Initiative Contact:

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ASPR Tools & Resources—More to come!

- HHS emPOWER Map (emPOWER): www.phe.gov/empowermap
- HHS Technical Resources Assistance Center and Information Exchange (TRACIE) https://asprtracie.hhs.gov/
- HHS Response and Recovery Resources Compendium:
  http://www.phe.gov/emergency/hhscapabilities/Pages/default.aspx
ASPR on the Web

ASPR TRACIE: asprtracie.hhs.gov

HHS emPOWER Map: www.phe.gov/empowermap