





HHS emPOWER Initiative

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



Kristen P Finne Lead, HHS emPOWER Initiative Senior Policy Analyst, Division of Health Systems Policy Office of the Assistant Secretary for Preparedness and Response U.S. Department of Health and Human Services







National Health Security Strategy and Implementation Plan 2015-2018



health, healthcare, and emergency management systems. National Health Security Strategy and Implementation Plan



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?



ASPR: Resilient People. Healthy Communities. A Nation Prepared.



How can federal health data inform and support preparedness, response, and recovery

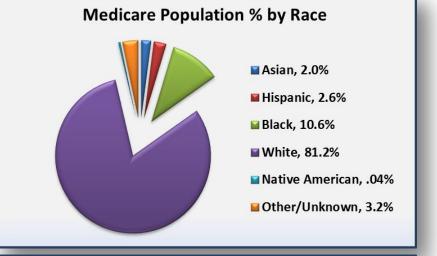


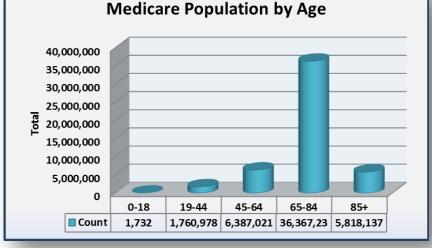
• Medicare insures 50 million Americans

- 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







White House Strong Cities, Strong Communities Initiative

"A First-in-the-Nation At-Risk Medicare Data Pilot Exercise"

City of New Orleans, June 10-11, 2013



• 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



Dr. Nicole Lurie, U.S. Department of Health and Human Services Assistant Secretary for Preparedness and Response, with Dr. Karen DeSalvo, Health Commissioner for the City of New Orleans Health Department in June 2013

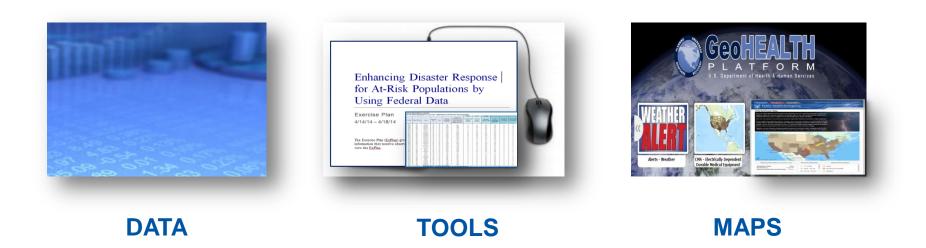








HHS emPOWER Initiative "HHS' Data and Mapping Quality Improvement Partnership"





National HHS emPOWER Dataset

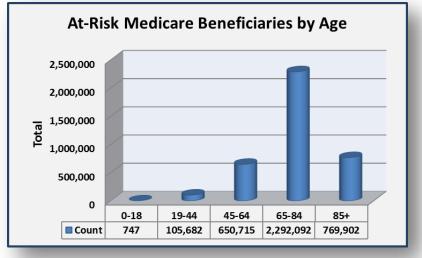
Data as of 8/28/15

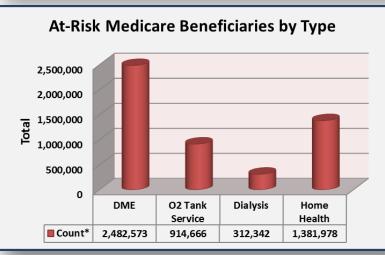


- 3.8M at-risk Medicare beneficiaries living at home independently
- Medicare at-risk data types include:
 - Electricity-Dependent Durable Medical Equipment (DME)
 - Ventilators
 - Oxygen concentrators
 - Enteral feeding machines
 - Intravenous (IV) pumps
 - Suction pumps
 - At-home dialysis machines
 - Electric Wheelchairs/scooters
 - Electric Beds
 - Oxygen (O²) 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? "Right Data. Right Tool. Right Person. Right Time."



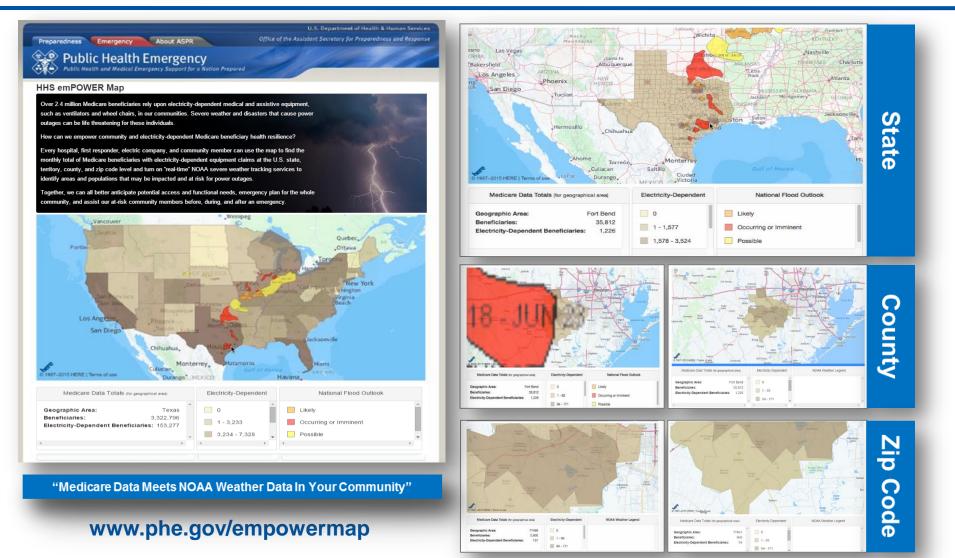




HHS emPOWER Map



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







Health Department De-identified Emergency Planning Datasets

- Provides more granular de-identified data:
 - Medicare totals by type of DME and healthcare services
- Sample Use Cases:
 - Informing power restoration prioritization decision making at all levels
 - Identifying optimal locations, support, and power needs for multiple devices in general population shelters
 - Assessing potential transportation needs for evacuating or transport to healthcare providers (e.g. dialysis)
 - Anticipating potential EMAC requests for at-risk populations residing by borders
 - Sets the stage for life-saving assistance

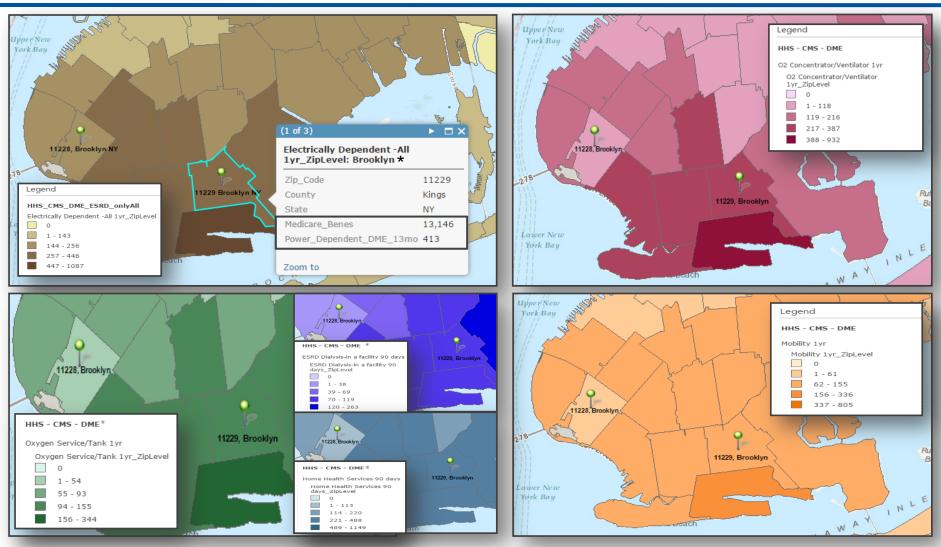
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80002 80003 80004 80005 80007 80010	County FIPS Code	County	State FIPS Code	State	# Medicare Beneticiaries in Zip Code	Population of Beneficiaries at home with a Residential Address, not P.O. Box or Unknown in Zip Ce	II In-Facilty ESRD Diatysis (3 months)	# O2 services [tanks] (13 months)	# Electricity- Dependent DME	# O2 concentrators (36 months)	# Ventilators (13 months)	# Enteral Feeding (13 months)	
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80021	059	Jefferson	08	co	1,215	1,166	11	56	159	146	11	11	
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80025	013	Boulder	08	co	1,319	1,306	11	73	219	202	11	11 11	
80027	013	Boulder	08	co	1,544	1,446	11	50	175	171	0	0	
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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



HHS emPOWER Initiative Emergency Response Outreach Individual Dataset



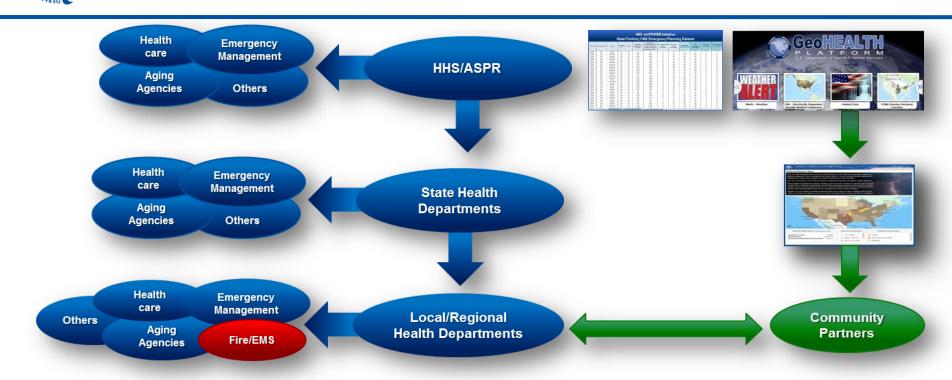
- Purpose is to conduct outreach prior to, during, or after an incident, public health emergency, or disaster that may adversely impact at-risk populations
- Examples of individual outreach use cases:
 - HHS approved preparedness exercises:
 - City of New Orleans, State of Arizona, Broome County/New 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)



HHS emPOWER Initiative

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

HUMAN SERVICE,

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:

Kristen P. Finne Lead, HHS emPOWER Initiative Senior Policy Analyst, Division of Health Systems Policy Office of the Assistant Secretary for Preparedness and Response U.S. Department of health and Human Services Office: 202-691-2013 Email: <u>kristen.finne@hhs.gov</u> HHS emPOWER Map: <u>www.phe.gov/empowermap</u> Web: <u>www.phe.gov</u>

ASPR Tools & Resources—More to come!

- HHS emPOWER Map (emPOWER): <u>www.phe.gov/empowermap</u>
- HHS GeoHealth Platform (formerly MedMap): <u>www.geohealth.hhs.gov</u>
- HHS Technical Resources Assistance Center and Information Exchange (TRACIE) <u>https://asprtracie.hhs.gov/</u>
- HHS Response and Recovery Resources Compendium: <u>http://www.phe.gov/emergency/hhscapabilities/Pages/default.aspx</u>



ASPR on the Web









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