HHS emPOWER Initiative Demo:
Contact Information

Kristen P. Finne, B.A.
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

Sean J. Britton, NRP, CPH, CEM
Deputy Director of Public Health
Deputy Emergency Medical Services Coordinator
Broome County Health Department
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 access and functional needs are?

Can we help a community better understand how many at-risk individuals with access and functional needs rely upon electricity-dependent medical and assistive equipment, healthcare services, and their local healthcare system—daily, weekly, monthly?

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 with access and functional needs?
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
HHS emPOWER Initiative

“HHS’ Data and Mapping Quality Improvement Partnership”

“Right Data, Right Person, Right Tool, Right Time”

DATA

TOOLS

MAPS
National HHS emPOWER Dataset
Data as of 1/27/2016

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

“Medicare Data Meets NOAA Weather Data In Your Community”
What data can I find? How can I use the HHS emPOWER Map?

- **De-identified Data:**
  - Monthly # Medicare beneficiaries
  - Monthly # of electricity-dependent Medicare beneficiaries
    - Recent claim for 8 types of electricity-dependent durable medical equipment (DME)

- **NOAA Severe Weather Tracking**
  - Hurricane*
  - Radar
  - Precipitation*
  - Storm Prediction*
  - Flood Outlook*
  - None - default

- **Background Maps (ESRI)**
  - Base map*
  - Topographic*
  - Streets*
  - Satellite*
  - Hybrid
  - Grey
  - Dark Grey
  - Oceans
  - National Geographic
  - Terrain*
  - Open Street Map

Select an Area by Hovering Your Mouse Over a State, County, and then Zip Code to find data in the Medicare Data Total Section or in the Dynamic Table Below.

Or Use the Drop Down to Select a State, County, and then Zip Code for Data.
Can I consume and display the HHS emPOWER Map rest service in our GIS system?

YES! First locate your GIS expert, then them the great news, and ask them to:

Go to: Geohealth.hhs.gov

OR

Go directly to the URL:

https://geohealth.hhs.gov/dataaccess/rest/services/CMS_DME/HHS_CMS_DME_ESRD_onlyAll/MapServer

Click on More Details

Scroll to Map contents and click on the “HHS_CMS_DME_ESRD_onlyAll” for the end points

Here are the end points for the State/Territory, County and Zip Code Level Data Layers
HHS emPOWER Initiative
State 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

http://geohealth.hhs.gov/arcgis/home/
HHS emPOWER Initiative
State Health Department De-identified Emergency Planning Dataset

Menu Tab

Data Overview Tab
# State Tab

<table>
<thead>
<tr>
<th>State</th>
<th># Medicare Beneficiaries in State</th>
<th># Medicare Fee-for-Service Beneficiaries [Part A/Part B] in State</th>
<th># Medicare Advantage Beneficiaries [Part C] in State</th>
<th># Dual-Eligible Medicare Beneficiaries in State</th>
<th>Population of Beneficiaries at Home with a Residential Address, not P.O. Box or Unknown in State</th>
<th>In-Facility ESRD Dialysis (3 months)</th>
<th># O2 services [ tanks] (13 months)</th>
<th># Home health (3 months)</th>
<th># Electricity-Dependent DME</th>
<th># O2 concentrators (36 months)</th>
<th># Ventilators (13 months)</th>
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<td>NY</td>
<td>3,050,640</td>
<td>1,778,518</td>
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<td>52,964</td>
<td>105,075</td>
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</table>
HHS emPOWER Initiative
State Health Department De-identified Emergency Planning Dataset

Note: Every Column is Sortable
HHS emPOWER Initiative
State Health Department De-identified Emergency Planning Dataset

Zip Code Tab
* 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, New York City*
  — HHS approved emergencies:
    • Flint Michigan Water Emergency, Virginia and NYC Winter Storm Jonas Emergency, 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

**Public Health Authority Emergency Response Outreach**

**Individual Dataset (Sample)**

#### Planning Today for Rebuilding Tomorrow:

**RESILIENCY & RECOVERY IN THE 21ST CENTURY**

#### Individual Dataset - Ventilator and Concentrator Individuals

**.population** - Medicare population is restricted to alive beneficiaries as of November 2014 who are enrolled in Medicare Fee for Service parts A and B.

**Note:** All data are fictitious and used for illustrative purposes only.

<table>
<thead>
<tr>
<th>Name</th>
<th>Other Information</th>
<th>Address Indicators</th>
<th>Address</th>
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<tbody>
<tr>
<td>Anne Smith</td>
<td>November 4, 1944</td>
<td>0</td>
<td>57 Conon Island Av, Brooklyn, NY</td>
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<td>Amy Brown</td>
<td>February 19, 1955</td>
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<td>John Taylor</td>
<td>December 20, 2014</td>
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<td>1000 40 St, Brooklyn, NY</td>
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<td>Jane Doe</td>
<td>March 4, 1966</td>
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<td>Robert Walker</td>
<td>May 20, 1930</td>
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<td>Mary Johnson</td>
<td>September 14, 2012</td>
<td>0</td>
<td>17 223rd Place, Queens Village, NY</td>
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<td>William Jones</td>
<td>December 1, 1933</td>
<td>0</td>
<td>150 F 206 St, Bronx, NY</td>
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<td>David Robinson</td>
<td>July 6, 1936</td>
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<td>Carol Davis</td>
<td>July 24, 1945</td>
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### HHS At-Risk Resiliency Initiative

**INDIVIDUAL LEVEL DATASET - Ventilation**

**POPULATION - Medicare population in restricted areas**

**NOTE:** All data are fictitious and used for illustrative purposes.

<table>
<thead>
<tr>
<th></th>
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**Data Request Form w_Templates 2013.02_Final.xlsx - Microsoft Excel**
## HHS emPOWER Initiative

### Emergency Response Outreach Individual Dataset Sample - Continued

<table>
<thead>
<tr>
<th>Lookback Data Range</th>
<th>Lookback Data Range</th>
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<tbody>
<tr>
<td>9/26/14 - 12/28/14</td>
<td>9/26/15 - 12/28/15</td>
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**NOTE:** All data are fictitious and used for illustrative purposes.

<table>
<thead>
<tr>
<th>Initial Sorting Order</th>
<th>First Name</th>
<th>Last Name</th>
<th>Name</th>
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<tr>
<td>28</td>
<td>Anna</td>
<td>Smith</td>
<td>Respiratory Devices Inc</td>
<td>1 N Main St</td>
<td>11111</td>
<td>(383) 383-3838</td>
</tr>
<tr>
<td>29</td>
<td>Amy</td>
<td>Brown</td>
<td>Medical Supply</td>
<td>2 Second St</td>
<td>22222</td>
<td>(900) 900-9000</td>
</tr>
<tr>
<td>30</td>
<td>John</td>
<td>Taylor</td>
<td>Healthcare Supplier, LLC</td>
<td>3 3rd Ave</td>
<td>33333</td>
<td>(222) 111-5555</td>
</tr>
<tr>
<td>31</td>
<td>Jane</td>
<td>Doe</td>
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<td>3 3rd Ave</td>
<td>33333</td>
<td>(222) 111-5555</td>
</tr>
<tr>
<td>32</td>
<td>Robert</td>
<td>Waller</td>
<td>Medical Equipment, Inc</td>
<td>4 5 Main St</td>
<td>44444</td>
<td>(444) 444-4444</td>
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<td>33</td>
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<td>Johnsons</td>
<td>Medical Equipment, Inc</td>
<td>4 5 Main St</td>
<td>44444</td>
<td>(444) 444-4444</td>
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<td>Jones</td>
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<td>55555</td>
<td>(222) 111-5555</td>
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<tr>
<td>35</td>
<td>David</td>
<td>Robinsons</td>
<td>Healthcare Provider, LLC</td>
<td>3 3rd Ave</td>
<td>55555</td>
<td>(222) 111-5555</td>
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<tr>
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<td>Carol</td>
<td>Deeks</td>
<td>View Home Health</td>
<td>384 Park Street</td>
<td>33333</td>
<td>(383) 383-3838</td>
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<tr>
<td>37</td>
<td>Joe</td>
<td>Smith</td>
<td>Home Care Services</td>
<td>3929 1st Ave</td>
<td>44444</td>
<td>(900) 900-9000</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Most Recent Institutions</th>
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</thead>
<tbody>
<tr>
<td>Type of Institution</td>
</tr>
<tr>
<td>Outpatient Visit</td>
</tr>
<tr>
<td>Hospital Stay</td>
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</table>
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 Data in Action

How can emPOWER data and tools inform and support emergency preparedness, response, recovery and resilience activities in your communities?
Disasters Happen Locally

Major natural disasters that have impacted Broome County, New York:
- 2006 Flood
- 2011 Flood

Challenges faced prior to, during and after the disasters:
- Identifying the needs and locations of populations/individuals with access and functional needs
- Healthcare infrastructure and continuity of healthcare
- Hospital /Emergency Medical Services (EMS) Surge
- Determining medical and other needed supplies
- Power restoration
- Evacuation needs
- Shelter needs
How is the HHS emPOWER Map helping Broome County?

- HHS emPOWER Map provides a starting point for estimating the electrically-dependent population within our community.

- Informing planning activities to better support:
  - Community awareness and support
  - Evacuation
  - Medical and other supplies
  - Hospital/EMS system surge
  - Shelter locations
  - Populations affected

- Informing communication activities:
  - Targeted public communications
  - Foster ‘s community discussion, engagement, and understanding
How is the HHS emPOWER de-identified data helping Broome County?

- HHS emPOWER de-identified data can:
  - Enhance our population-based situational awareness of healthcare and electricity-dependent populations
  - Inform emergency planning activities to identify needs, better develop processes & triggers, identify community resources
  - Enhance understanding and integration of public health, emergency management, healthcare and aging service responses
    - Better anticipate where we may need to anticipate evacuation needs and life-saving outreach to at-risk populations.
    - Anticipate potential surge on our healthcare and EMS systems
    - Better identify locations and needs for shelters, medical supplies, and other resources
How is the HHS emPOWER individual level data helping Broome County?

• Individual data was exercised in April 2014

• Future emergency response uses, include but are not limited to:
  o Emergency warnings
  o Field response outreach
  o Evacuation
Overview of our Incident Command Structure for Broome County At-Risk Exercise
Contact Information

Kristen P. Finne, B.A.
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: kristen.finne@hhs.gov
HHS emPOWER Map: www.phe.gov/empowermap
HHS GeoHealth emPOWER Rest Service: https://geohealth.hhs.gov/dataaccess/rest/services/CMS_DME/HHS_CMS_DME_ESRD_onlyAll/MapServer
HHS GeoHealth Platform: www.geohealth.hhs.gov
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

Sean J. Britton, NRP, CPH, CEM
Deputy Director of Public Health
Deputy Emergency Medical Services Coordinator
Broome County Health Department
Office: 607-778-3944
Email: sbritton@co.broome.ny.us
Website: http://www.gobroomecounty.com/hd
Facebook: www.facebook.com/BroomeCountyHealth
Facebook: www.facebook.com/BCOES