

# HHS emPOWER PROGRAM

# Translating Research into Practice

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# Why HHS Created the emPOWER Program

Identifying and Addressing At-Risk Population Needs

How can we help communities **reduce system stress**, **ensure continuity of care**, and better **protect** their at-risk populations from adverse health outcomes?

In the event of an incident, public health emergency or disaster, at-risk populations often seek immediate care from first responders (e.g., EMS), hospitals, and shelters



This leads to **surges in health care demand** and **stress** on the health care system and shelters

Millions of Americans, including over **3.9 million** Medicare beneficiaries,



rely on electricity-dependent medical equipment and health care services to live independently in their homes



Can Centers for Medicare and Medicaid Services (CMS) data help communities anticipate, plan for, and address the unique needs of the electricity and health care dependent population?



### **Evidence for the HHS emPOWER Program**

Medicare claims data is a reliable resource for locating at-risk individuals, enabling emergency responders to reach the right people at the right time during an emergency

#### The Pilot

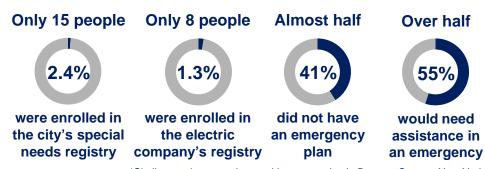
ASPR and CMS partnered with the City of New Orleans (NOLA) Health Department to test if Medicare claims data were current enough to locate NOLA residents that use oxygen electricity-dependent medical equipment during emergencies



Figure 1. Medicare beneficiaries in the City of New Orleans with a claim for ventilator, oxygen concentrator, and/or oxygen tank.

#### The Results

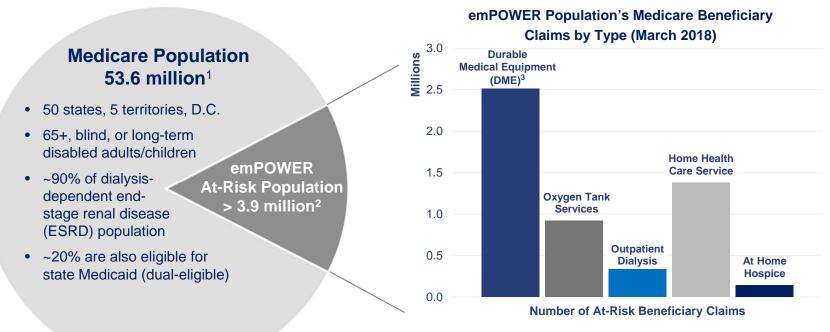
- 611 individuals had a claim for oxygen concentrator or ventilator
- Data were 93% accurate in identifying the medical equipment used by the 191 individuals visited\*
- Drill also revealed gaps in emergency preparedness:



\*Similar results were observed in an exercise in Broome County, New York



### **Characteristics of the HHS emPOWER Population**



<sup>&</sup>lt;sup>1</sup> Population for Medicare (Parts A/B) and Medicare Advantage (Part C) as of March 2018.



<sup>&</sup>lt;sup>2</sup> As of March 2018, 27% of the emPOWER population is dual-eligible (beneficiary is enrolled in Medicare and state Medicaid) as compared to the national average of 17.1%.

<sup>&</sup>lt;sup>3</sup> Total counts Medicare beneficiaries only once, even if they have more than one piece of electricity-dependent DME.

### **Elements of the HHS emPOWER Program**

### Innovative Use of CMS Data

ASPR and CMS partnered to create the HHS emPOWER Program, which leverages CMS Medicare beneficiary data to populate innovative program tools, including datasets, Geographic Information Systems (GIS) maps, and GIS Representational State Transfer (REST) Services, to provide communities with the **right data** in the **right tool** to the **right person** at the **right time** 







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# The HHS emPOWER Program

### emPOWERing Communities, Saving Lives

The HHS emPOWER Program provides dynamic data and mapping tools to help communities protect more than **3.9 million** Medicare beneficiaries who rely on electricity-dependent medical equipment and health care services





**Publicly available** at https://empowermap.hhs.gov

#### emPOWER Emergency Planning De-identified Dataset

Services	All Power Dependent		
# At-Home Hospice (3 months)	# Electricity- Dependent Devices and DME	# Cardiac Devices (5 years)	
11	44	50	
50	13	11	
50	13	11	
11	44	50	

**Restricted** to public health authorities and relevant partners

#### emPOWER Emergency Response Outreach Individual Dataset

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2	Amy	Brown	February 19, 1955	MA	0
3	John	Taylor	December 20, 2028	MA	0
4 Jane		Doe	March 4, 1966	FFS	0

**Secure**, restricted to authorized public health authorities

Mitigation



**Preparedness** 



Response



Recovery





### Update respository (and leader??) slides Rollet, Shelley, 4/4/2018 SR261

## What are the emPOWER Map and REST Service?

ASPR is helping communities by providing de-identified at-risk Medicare beneficiary data on the interactive HHS emPOWER Map, and through an emPOWER REST service via ASPR's GeoHEALTH Platform



Publicly accessible at https://empowermap.hhs.gov



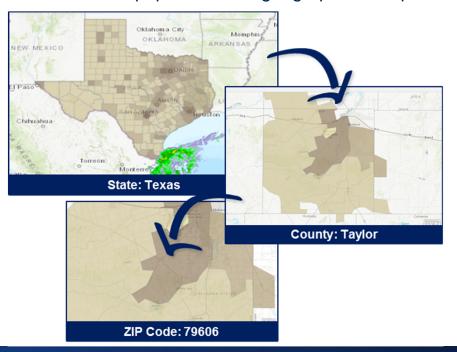
Publicly accessible at <a href="https://geohealth.hhs.gov">https://geohealth.hhs.gov</a>



# **HHS emPOWER Map and REST Service**

How can I use the emPOWER Map and REST Service?

The map and REST Service provide a starting point for estimating the electricity-dependent population in a geographic area prior to, during, or after an emergency









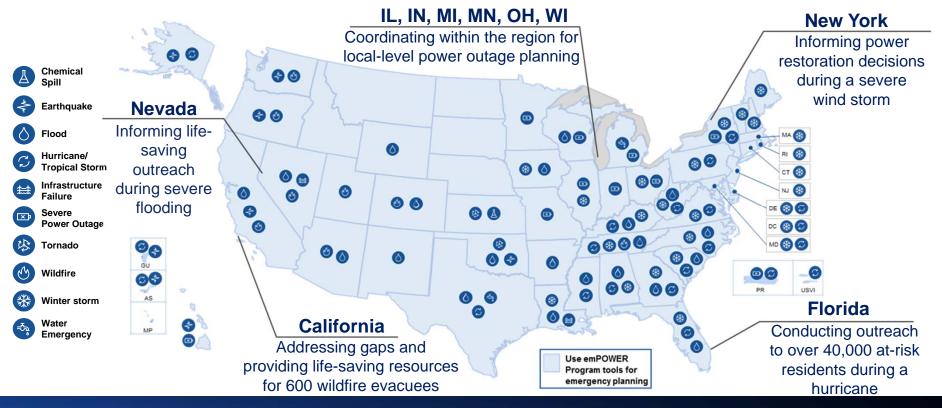




# Bringing It All Together: The HHS emPOWER Program in Practice

# **HHS emPOWER Program in Action**

Examples of Where the Program has been Used





### **HHS emPOWER Program Use Case**

### Hurricane Matthew in Florida

The HHS emPOWER Program helped Florida quickly identify and provide outreach to tens of thousands of at-risk individuals, setting the stage for life-saving emergency response

# Planning and Preparedness

In anticipation of Hurricane
Matthew, Florida Health used
the emPOWER Emergency
Response Outreach
Individual Dataset to identify
at-risk individuals in seven
counties and perform a
reverse lookup of phone
numbers

#### Response

A life safety call was made to over 40,000 residents by the Florida Division of Emergency Management using the Statewide Alerting and Notification System

### Impact

Staff contacted the 169 individuals who indicated they might have a health or medical need during and shortly after the hurricane



**44,500** at-risk residents identified and called

17,000 residents responded to calls

169 individuals requested assistance



#### **Supporting partners:**

- Florida Division of Emergency Management
- Local Emergency Managers and Emergency Operations Centers



### **HHS emPOWER Program Use Case**

### Severe Flooding in Nevada

HHS emPOWER Program tools helped Carson City Health and Human Services (CCHHS) and Washoe County Health District (WCHD) assess its capacity to assist the at-risk population and engage partners to ensure coordinated outreach

# Planning and Preparedness

In 2017, CCHHS used both emPOWER datasets to identify and address gaps in resources (e.g. oxygen tanks) for the at-risk population and map evacuation routes for beneficiaries in flood-prone areas

#### **Outreach**

CCHHS and WCHD used the emPOWER Emergency Response Outreach Individual Dataset to identify at-risk individuals living in flood-prone, avalancheprone, and remote areas, and coordinated with Medical Reserve Corps volunteers to provide outreach

#### **Impact**

CCHHS is expanding use of the emPOWER Individual dataset to help set up mass care operations and inform umbrella contracts with DME companies. WCHD and Washoe County GIS developed an effective way to process emPOWER data within 30 minutes



4 counties in Nevada benefitted from emPOWER Program data

homes in flood-prone areas contacted by CCHHS



- NV Division of Public and Behavioral Health
- NV Aging and Disability Services
- NV Division of Emergency Management
- NV National Guard
- Tribe Emergency Manager



### Use Case: Severe Wildfires in Los Angeles, California

HHS emPOWER Program tools helped Los Angeles (LA) identify the needs of its at-risk population and connect with health care partners to improve continuity of care

### **Emergency Preparedness Planning**

In December 2017, LA County Department of Public Health requested emPOWER engaged durable medical data on behalf of the City of LA to support first responder efforts to identify and locate at-risk individuals in areas that had been evacuated due helped ensure continuity of to wildfires

### Recovery

Following the wildfires, LA County identified and equipment (DME) and oxygen suppliers in the area. serving approximately 600 at-risk individuals. This effort care for many wildfire evacuees

### **Impact**

The City of LA is incorporating emPOWER data into emergency response protocols and plans. LA County and LA City are developing mapping applications for the data to provide first responders with current, actionable information on the at-risk population



∼600 at-risk individuals impacted by wildfires

> **38** DME providers contacted, and 22 surveyed

#### **Supporting partners:**

- LA Emergency Management Department
- LA Fire Department

- LA Police Department
- DME and Oxygen Suppliers



# emPOWERing Partners- New Tech, Training and Tools in 2018

# **HHS emPOWER Program Communications**

### Training and New Resources on the emPOWER Portal

In **fall 2018**, new trainings and communications materials will be available for stakeholders interested in **strengthening emergency preparedness and response** in their state, territory, county, or major metropolitan area

An emPOWER training will be available on TRAIN, and an emPOWER 101 presentation will be accessible on the forthcoming emPOWER Portal



New grab-and-go materials, including fact sheets, job aids, journey maps, and guides for the emPOWER Program tools will be available on the emPOWER Portal





# **HHS emPOWER Program**

### **Contact Information**

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