SHOULD I STAY OR GO?: NURSING HOME AND ASSISTED LIVING ADMINISTRATORS' CONCERNS DURING HURRICANE IRMA AND OTHER STORMS

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University of South Florida IRMA lab

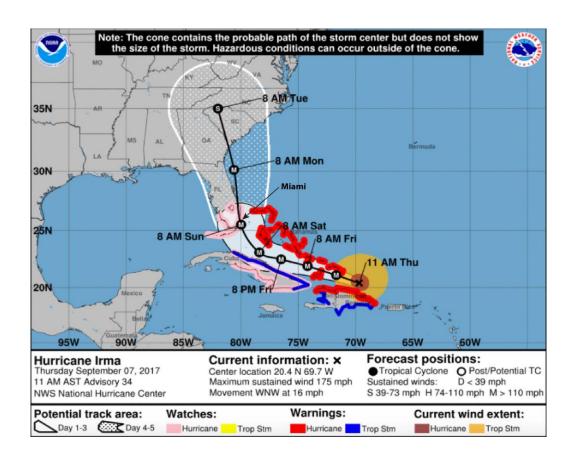
- Dylan Jester
- Joseph June, MPH
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- Lindsay Peterson, PhD
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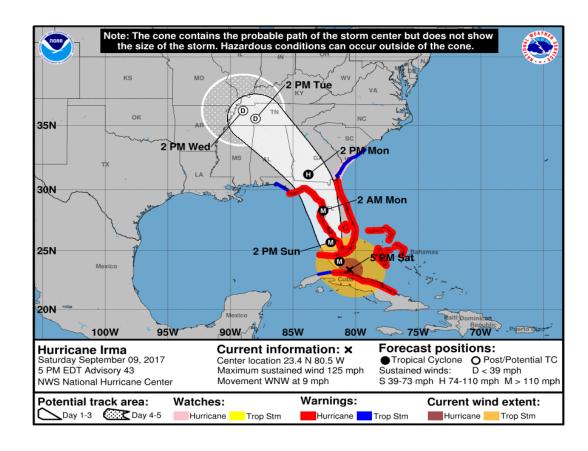
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- Florida Health Care Administration
- Nursing Home Administrators
- Assisted Living Administrators

PROJECTING THE PATH OF A HURRICANE IRMA

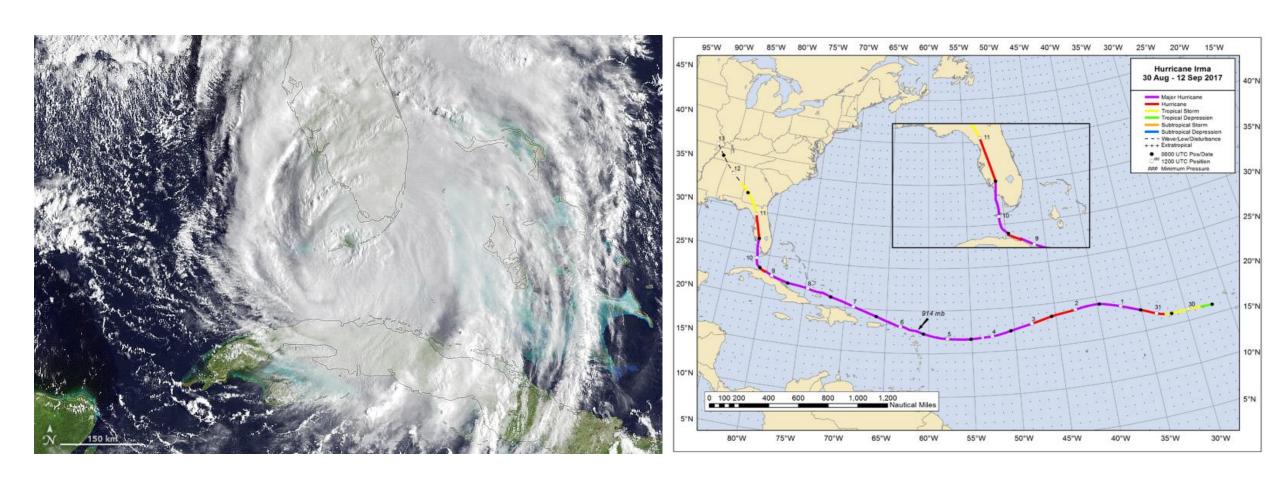
Thursday, Sept 6, 2017



Saturday, Sept 9, 2017



HURRICANE IRMA LANDFALL



Source: NASA Earth Observatory, https://earthobservatory.nasa.gov/images/90948/hurricane-irma-strikes-florida

Source: National Hurricane Center, https://www.nhc.noaa.gov/data/tcr/AL112017_Irma.pdf

PRIOR WORK ON NURSING HOME EVACUATION

- Hurricanes increase probability of Nursing Home deaths among longstay residents
- Nursing Home Deaths and Hospitalizations increased during
 - Hurricanes Katrina, Rita (2005)
 - Hurricanes Ike and Gustave (2008)
- Evacuation of Residents INCREASED deaths and hospitalizations beyond storm effects

FRACTION OF "EXCESS" DEATHS/HOSPITALIZATIONS "ATTRIBUTABLE" TO EVACUATION BEFORE STORM

	Hospital 30 Days	Death 30 Days	Hospital 90 Days	Death 90 Days
Katrina (%)	14%	5%	15%	10%
Rita(%)	92%	X	95%	21%
Gustav(%)	95%	X	95%	31%
Ike(%)	X	X	X	X

Notes: All fractions are significant at the 10 percent level.

[x] cells are those where the "excess" deaths in storm year were not significantly different from zero.

POLICY: REQUIRED NURSING HOME EMERGENCY PREPAREDNESS CHANGES AFTER KATRINA, RITA, IKE, SANDY

- New Nursing Home Comprehensive Emergency Plans for ALL hazards released in September 2016
- More disaster training, incorporation of Nursing homes into Community Emergency Planning, Report Actual Practices
- Requirement to have "Alternative power to maintain temperature between 70-81
- Required to be implemented by NOVEMBER 2017

Federal and State Comprehensive Emergency Management Plans

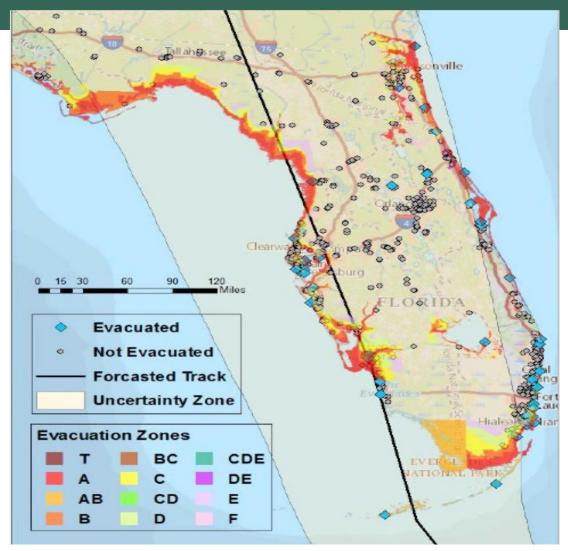
FOUR PROVISIONS FOR ALL PROVIDER TYPES

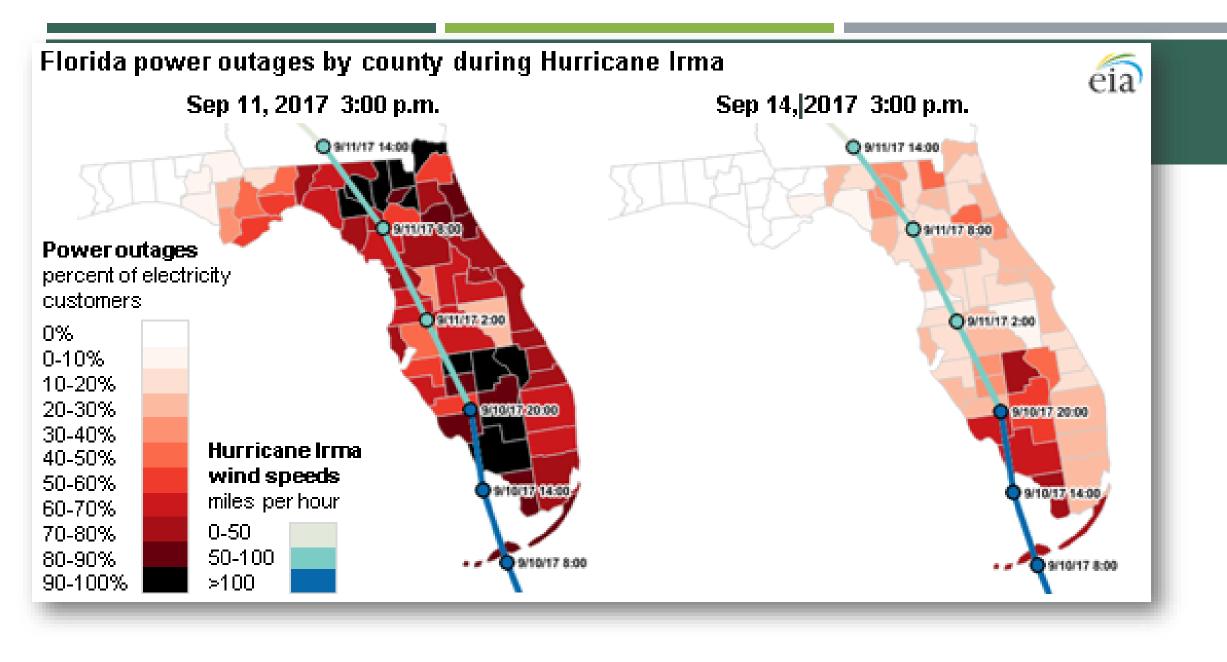


FL NURSING HOMES AND ASSISTED LIVING EVACUATING 48 HOURS BEFORE PROJECTED LANDFALL

81 nursing homes evacuated 7,700 resident (12% of all NHs) 61 prior to storm 20 evacuated after the storm

445-650 Assisted Living Facilities evacuated = estimate at least 20% of Als,
Smaller more likely than larger to leave







LEARNED EMERGENCY OPERATIONS CENTERS MUST HELP

- Power restoration essential- Electricity and Air conditioning matters
- Transportation contracts failed
- Evacuation CEMP contract was unavailable- Shelters, and at least 17 providers evacuated more than once.
- Staffing: Needed help, especially after storm
- Medical Supplies: Needed replenishment
- Equipment: Generators and Fuel for replenishing
- Other: (Food, Water, Linens, Mattresses, Clothing, Medications, Walkers, Wheelchairs, Oxygen, Medical Records, Personal Belongings)

NH AND AL REQUIRED ASSISTANCE - INTERVIEWS

- "Finding a local evacuation site due to the undetermined path of the storm and patient safety in transport."
- "Last minute evacuation so locations and transportation contracts weren't able to be used."
- "Physically assisting the residents to the shelter."
- "We had some buses available, but our emergency management also assisted in sending buses."

FINDINGS

- Both NHs and evacuated ALs had difficulties implementing CEMP.
 - Primary site evacuated, was full, or did not accept evacuating NHs, ALs
- Differences in generator use by status and generator type by size.
- Evacuated ALs did not go to primary evacuation site.
 - Shelters do not accept Assisted Living residents —except they did
- Almost half of small ALs cared for all residents during evacuation.

EMERGENCY POWER FUEL- REQUIRED JULY 1, 2018 OR JANUARY 2019

Nursing Homes

- Support internal temperature for 96 hours
- 72 hours on site fuel or piped gas
- 48 hours onsite fuel or piped gas for 16 or less beds
- Bring additional fuel onsite (to achieve 96 hours) upon declaration of an emergency
- If fuel storage is restricted by regulations and piped gas is not available, must replenish 24 hours prior to depletion
- Carbon monoxide detectors are required

Assisted Living

- Support internal temperature for 96 hours
- ❖ 72 hours on site fuel or piped gas for 17+ beds
- Bring additional 24 hours of fuel onsite (to achieve 96 hours) upon declaration of an emergency
- If fuel storage is restricted by regulations and piped gas is not available, must replenish 24 hours prior to depletion

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INITIAL POLICY IMPLICATIONS

- NHs know County Emergency Management Operations
- Need better relationships between ALs and Emergency Management
- Failure of evacuation plans
 - Shelters were needed for AL residents
 - Medical supplies, food and water for sheltering ALs
- Many ALs had difficulties deciding to evacuate due to path of Irma.
- New generator rule and its effects on ALs (especially smaller ALs).
 - Cost to implement plan
 - Fuel requirements









PREPAREDNESS MATTERS, PRACTICE HELPS, EMERGENCIES REQUIRE COMMUNICATION



Reuters / Jeff Mitchell





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