

Hurricane Sandy

Lessons Learned from Frankenstorm

Anthony N. Cascio November 8, 2013

Agenda

Introductions MHS Strengths

Background MHS Opportunities

Hospital Strengths Closing Remarks

Hospital Opportunities





About me...

Emergency!

Cadet (Explorer)

UMBC Emergency Health Services

Montgomery County, Maryland

Newark, NJ

Native Air

STAT Flight

Robert Wood Johnson University Hospital



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RWJUH Now: At-A-Glance

610 beds

1,750 Medical Staff

5,315 employees

34,200 inpatient admissions

1,100,000 outpatient visits

96,400 emergency department visits

- 71,600 adult
- 24,800 pediatric

2,900 trauma cases





RWJUH Now: At-A-Glance

19,000 surgeries

13,000 cardiac procedures

2,300 births

Approximately 90 Heart, Kidney & Pancreas transplants

15,000 radiation therapy treatments



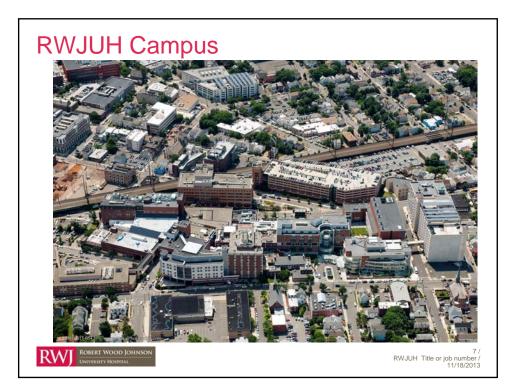
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Specialty Centers for the People of New Jersey



- International Center for Terror Medicine
- University
 Center for
 Disaster
 Preparedness
 and Emergency
 Response
- The Gamma Knife Center at RWJ





The Power of Collaboration

Our remarkable campus is comprised of:

- RWJUH
- Rutgers Robert Wood Johnson Medical School
 - Child Health Institute
 - Cardiovascular Institute
 - Eric B. Chandler Health Center
- Rutgers Cancer Institute of New Jersey
- Bristol-Myers Squibb Children's Hospital
- PSE&G Children's Specialized Hospital





The Power of Collaboration

- Rutgers University:
 - College of Nursing
 - Ernest Mario School of Pharmacy, and
 - Institute for Health, Health Care Policy and Aging Research
- Ronald McDonald House
- Embrace Kids Foundation
- New Brunswick Health Sciences Technology High School

This is what makes our academic medical center truly unique!





RWJ Mobile Health Service

Comprehensive system

Regional Communications

Tiered System

- -BLS
- ALS
- -SCT
- Education
- Research





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RWJ Mobile Health Service

BLS ALS

Non-Emergency Transports 2 Counties

4 municipalities 230 square miles

112 square miles 440,000 residents

266,000 residents 7 units at peak

13 units at peak 19,000 responses annually

20,000 responses annually

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RWJ Mobile Health Service

Research
Special Events
TEMS Unit
NJ EMS Task Force

· Central Host Agency





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NJ EMS Task Force

"To provide New Jersey and the region with a highly trained, equipped and **specialized** EMS resource to support operations at major incidents and pre-planned events using a well coordinated, robust all-hazards approach through the State's Emergency Management System"



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Saturday, October 20th

United Airlines Flight 4397 from EWR to MCI

RWJ Ladies Auxiliary 53rd Autumn Ball



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Monday, October 22nd

1200 UTC (0800hrs) – Tropical Depression 18 develops

1800 UTC (1400hrs) – Tropical Depression 18 intensifies into Tropical Storm Sandy



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Wednesday, October 24th

1200 UTC (0800hrs) - Cat 1

1900 UTC (1500hrs) – First landfall

RWJUH Formal Preplanning





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Thursday, October 25th

0000 UTC (2000hrs 10/24) – Cat 2

0525 UTC (0125hrs 10/24) – Cat 3

0900-1200 UTC (0500-0800hrs) - Cat 2

2000hrs - Cat 1

RWJ MHS Formal Pre-Planning







Friday, October 26th

0000 UTC (2000hrs 10/25) – Cat 1





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Saturday, October 27th

0000 UTC (2000hrs 10/26) - TS

1530 UTC (1130hrs) – UA Flight 4559 from MCI to EWR.

1200 UTC (0800hrs) - Cat 1

Executive Order 104







Monday, October 29th

1200 UTC (0800hrs) – Cat 2, RWJUH EOP Activated

1215 UTC (0815hrs) - HCC Opened

1800 UTC (1400hrs) - Cat 1

2100 UTC (1700hrs) - Extratropical Cyclone

2330 UTC (1930hrs) – Landfall





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Other Hospital Happenings

Elective Surgeries

Helipad damaged

Blood donations

Physical Therapy

EHS

Same day chemotherapy

Molecular testing





MHS Other Happenings

Generator power

Loss of internet/email



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By the numbers...

7.0 million

2.5 million

346,000

116,000

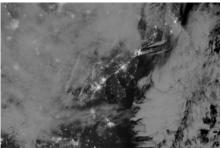
17,000

600

127









Hospital Strengths

- 1. Essential services.
- 2. Reporting for duty.
- 3. Cooperation.
- 4. Pre-storm planning



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Hospital Strengths

- 5. Text messaging
- 6. Potable water
- 7. Generator system
- 8. Satellite Staff





Hospital Opportunities

Communications **Facilities**

HCC/EOP **Labor Pool**

UMDNJ Materials Management

Staffing General



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Communications

- 1. Situational Awareness 5. Physicians with Partners
- 2. Situational Awareness for Staff
- 3. URG Calling system
- 4. Outpatients

- 6. Department Director **Briefings**
- 7. Department info to staff
- 8. External communications



HCC/EOP

- 1. ICS 214
- 2. Standard form for reporting.
- 3. Joint Command
- 4. Admin Staff
- 5. IMT
- 6. Satellite locations

- 7. Restricted access
- 8. ED/MHS/Trauma Medical Directors
- 9. State of Emergency Policy
- 10. Incident Planning
- 11. Status boards
- 12. Technology



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HCC/EOP

- 13. Reporting requirements.
- 14. Phones
- 15. Planning Section Chief
- 16. Reference binders
- 17. Boil water advisories
- 18.Fuel



19. Inclement weather policy.

20. Intranet EOC folder

Materials Management

- 1. Vendor supplied linen
- 2. Disposable linen
- 3. Linen conservation
- 4. Bottled water
- 5. Boil water advisory



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Staffing

- 1. Schedule
- 2. Accommodations
- 3. Ancillary staff
- 4. Food/beverages
- 5. Displaced staff
- 6. Booking process
- 7. Police Access
- Inclement weather policy non-clinical staff



Facilities

- 1. Backup generator Core Building
- 2. Generator for 181 Somerset Street.
- 3. Generator at 10 Plum Street
- 4. Backup generator cables.



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Facilties

- 5. Complete facility water loss contingency plan
- 6. Cooling diesel fuel generators
- 7. External water hookup for boilers.
- 8. E-Power for RN Supervisors Office
- 9. On-site well.







Labor Pool

- 1. Requirements and Unit Leader JAS
- 2. Hospital layout
- 3. Utilization
- 4. Communication



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UMDNJ

- 1. Communications with EOC
- 2. Clinical Academic Building
- 3. CAB Power Failure
- 4. CINJ Generator Fuel Supply





General

- 1. Walgreens open 24/7
- 2. Local physicians
- 3. Charging Policy
- 4. EOPs for all critical vendors



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MHS Strengths

Pre-Planning

- NJ Tropical Storm/ Hurricane Management Plan for EMS
- 2. RWJ MHS Extreme Weather Policy
- 3. Lessons Learned from Hurricane Irene



Emergency Medical Services Task Force State of New Jersey Organizate of Isaath and Societ Services Health Infrastructure Propensiones and Emergency Resource Pro Dot 200, EMD.





Looking Back...Hurricane Irene







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MHS Strengths

Preparation

- 1. Station Assignments
- 2. Materials Management
- 3. Fleet cards
- 4. Vehicles





MHS Strengths

Coordination

- Hospital Command Center
- 2. Partner EMS Agencies
- 3. NJ EMS Task Force
- 4. Medical Coordination Center



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MHS Strengths

Continuity of Operations

- 1. Staff
- 2. Generators

Safety

- 1. No injuries
- 2. Driving Restrictions
- 3. Protective/Hi-Viz Gear





MHS Opportunities

Communication

Continuity of Operations

Logistics

Response

Special Needs Populations

Needs of Others



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Communication

Email - sporadic

Internet

- 1. ePCR
- 2. Aircards



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Continuity of Operations

Station 5

- 1. Power
- 2. Security

Staffing



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Logistics

Fuel

Spare Tires







Response

Road closures Generators





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Special Needs Populations

Special Needs Children

Identification of

- 1. Website
- 2. Data mining





Needs of Others

Hospital

- 1. HCC
- 2. Discharges

EOCs



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Internet Access Pre-storm evacuations

EOC representation Medical Shelters - DMAT

MCC representation Water pump failure

Stations without power Pets

CO Vent patients

Winds Road Closures







