THE 2017 HURRICANE SEASON

Four months to remember
2017 Atlantic Hurricane Season Outlook

- **Named storms**: 11-17
- **Hurricanes**: 5-9
- **Major Hurricanes**: 2-4

Season probability:
- **Above-normal**: 45%
- **Near-normal**: 35%
- **Below-normal season**: 20%

Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

May 25, 2017
BLUE = HHS assets
GREEN = DoD assets
Gold = VA assets
2017 Hurricane Irma/Maria Response
HHS Force Laydown Puerto Rico & USVI

Staging for PR - 295
Atlanta, GA
AZ-1, CA-9, MOB, OK-1, SC-1
Staging Team, TX-1, TX-4

Staging/Shelter In Place - 124
Due to hurricane Maria
AK-1, CDC, CA-6, CO-2 (HMTF1), MA-2, R2 Branch, SAT

On Site - 5
Mission: NDMS Patient Movement, SAT ST
110 in JPATS of which 91 are patients and 16 are NMAs
1 deceased and 3 discharged
## Deployed Personnel for Irma and Maria

<table>
<thead>
<tr>
<th>Group</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Disaster Medical System (NDMS)</td>
<td>1,415</td>
</tr>
<tr>
<td>Division of Commissioned Corps Personnel and Readiness (DCCPR)</td>
<td>730</td>
</tr>
<tr>
<td>Incident Response Coordination Team (IRCT)</td>
<td>80</td>
</tr>
<tr>
<td>Full-time Equivalent (FTE)</td>
<td>42</td>
</tr>
<tr>
<td>Other Agency</td>
<td>185</td>
</tr>
<tr>
<td>Non-Response Management System (RMS)</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,465</strong></td>
</tr>
</tbody>
</table>

*Numbers based on Event Deployment Report in RMS*
ESF-8 Situational Update

- Over 2,400 personnel supporting the response
- Over 8,000 patients have been treated
- Increase in number of open pharmacies in Puerto Rico to 98.2%
- 45 hospitals on grid power
- 45 dialysis centers are operational in Puerto Rico; 1 is operational in the US Virgin Islands
- No critical health product shortages as a result of the storm
- Linde has restored production in Guayama, Praxair plant operational in next 7-10 days.

  - Oxygen deliveries began on Saturday, October 21st
NDMS Neonatal transport
ESF#8 Response Activities

- Deployed NDMS teams and USPHS teams before the hurricanes hit
- Activated the Emergency Prescription Assistance Program
- Field personnel placed as liaison officers to provide immediate services to local officials
- Assessed all 67 hospitals and continue to monitor nursing homes and skilled facilities
- Supported the monitoring of diseases
- Evacuated more than 200 dialysis patients from USVI before Hurricanes Irma and Maria
- On-site medical care through federal medical stations (FMS) with 50 to 250 beds
  - “Hub and spoke” approach

ASPR: Saving Lives…Protecting America
ESF#8 Response Activities

- EmPower data used by Urban Search and Rescue teams to locate dialysis patients whom authorities were unable to reach during the initial evacuation.
- Deployed mental health teams and activated behavioral health hotlines in partnership with SAMHSA.
- Coordinated with private industry to ensure critical medical needs are being met.
- Deployed CDC personnel for disease surveillance, vector control, and water testing.
- Daily ESF #8 federal interagency calls.
Designated Transitional Hospitals / CDTs

Tier 1: Centro Medico (1)
- Centro Medico work complete (N+1)
- Condition for transition met

Tier 2a: Regional Sites (6)
- 6 of 6 N+1 power status
- Hospital Pavia Arecibo (#2) completing roofing repairs. Currently operational.

Tier 2b: Secondary Regional Sites (7)
- Buen Samaritano (#8) to reopen NLT 15 NOV 17.
- Ryder (#10) reopened ER / Primary care (initial phase) on 6 OCT 17.
- Hospital Bella Vista - Mayaguez on Grid (#11) awaiting parts for generator.

Tier 3: Center of Diagnostics and Treatment (CDT) (16)
- No longer a condition for DoD Role III hospitals’ transition. DoH and HHS concur.
- As DoH and HHS continue to improve CDT situation, DoD Role II medical unit could be required. 335th ASMC MA ends on 15 DEC 17.

PR DoH: 66 of 67 Hospitals are operational: Buen Samaritano only hospital currently closed.

UNCLASSIFIED//FOUO

As of 06NOV17
### Tier 1 and 2 Hospitals

<table>
<thead>
<tr>
<th>STATUS</th>
<th>POWER</th>
<th>REDUNDANT</th>
<th>WATER</th>
<th>COMMS</th>
<th>STRUCTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Grid</td>
<td>Redundant Power</td>
<td>AAA or Well</td>
<td>Landline or two sources</td>
<td>No significant damage or effect on operations</td>
</tr>
<tr>
<td>Partial</td>
<td>Generator</td>
<td>Assess-Need</td>
<td>Storage Tank</td>
<td>One Source</td>
<td>Minor damage</td>
</tr>
<tr>
<td>No</td>
<td>No Power</td>
<td>No Assessment</td>
<td>No water or empty tank</td>
<td>No Comms</td>
<td>Significant damage</td>
</tr>
</tbody>
</table>

### Tier 3 CDT

<table>
<thead>
<tr>
<th>STATUS</th>
<th>POWER</th>
<th>COMMS</th>
<th>WATER</th>
<th>STRUCTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational</td>
<td>Grid/Gen</td>
<td>Landline or cell phone</td>
<td>AAA/Water Well/Tank</td>
<td>No Damage that impacts operations or mitigation plan identified</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>SAT Phone, EM Resource</td>
<td>N/A</td>
<td>Moderate damage, but still operational</td>
</tr>
<tr>
<td>Closed</td>
<td>No Power</td>
<td>No Comms</td>
<td>No Water or Empty Tank</td>
<td>Significant Damage</td>
</tr>
</tbody>
</table>
## Hospital (Tier 1, 2a, 2b) Assessment

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>ASSESSMENT</th>
<th>HOSPITAL NAME</th>
<th>MUNICIPALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Tier 1 Hospital</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Co</td>
<td>CENTRO MEDICO</td>
<td>SAN JUAN</td>
</tr>
<tr>
<td>2</td>
<td>Co</td>
<td>HOSPITAL PAVIA ARECIBO (HOSPITAL DR CAYETANO COLL Y TOSTE) (Generator N+1 installed 05 OCT 17)</td>
<td>ARECIBO</td>
</tr>
<tr>
<td>3</td>
<td>Co</td>
<td>HOSP UNIVERSITARIO DR RAMON RUIZ ARNAU</td>
<td>BAYAMON</td>
</tr>
<tr>
<td>4</td>
<td>Co</td>
<td>HIMA SAN PABLO CAGUAS</td>
<td>CAGUAS</td>
</tr>
<tr>
<td>5</td>
<td>Co</td>
<td>HIMA SAN PABLO FAJARDO</td>
<td>FAJARDO</td>
</tr>
<tr>
<td>6</td>
<td>Co</td>
<td>HOSPITAL EPISCOPAL SAN LUCAS II</td>
<td>PONCE</td>
</tr>
<tr>
<td>7</td>
<td>Co</td>
<td>HOSPITAL DE LA CONCEPCION</td>
<td>SAN GERMAN</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Tier 2a Regional Hospitals</strong></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Co</td>
<td>HOSPITAL BUEN SAMARITANO DE AGUADILLA (Generator being installed on 6 NOV 17)) Fogging/sanitizing of facility ongoing</td>
<td>AGUADILLA</td>
</tr>
<tr>
<td>9</td>
<td>Co</td>
<td>HOSPITAL MENONITA GENERAL DE AIBONITO (Roof repairs ongoing)</td>
<td>AIBONITO</td>
</tr>
<tr>
<td>10</td>
<td>Co</td>
<td>HOSPITAL RYDER MEMORIAL (Requires fogging/sanitizing of second floor) (Leveraging Oriente / Caguas hospitals for surgical cases)</td>
<td>HUMACAO</td>
</tr>
<tr>
<td>11</td>
<td>Co</td>
<td>HOSPITAL BELLA VISTA (Hospital on Grid and awaiting generator parts for N+1 )</td>
<td>MAYAGUEZ</td>
</tr>
<tr>
<td>12</td>
<td>Co</td>
<td>HOSPITAL METROPOLITANO DR. MANUEL DE LA PILA IGLESIAS, PAVIA</td>
<td>PONCE</td>
</tr>
<tr>
<td>13</td>
<td>Co</td>
<td>HOSPITAL CENTRO MEDICO MENONITA DE CAYEY</td>
<td>CAYEY</td>
</tr>
<tr>
<td>14</td>
<td>Co</td>
<td>HOSPITAL AUXILIO MUTUO</td>
<td>SAN JUAN</td>
</tr>
</tbody>
</table>

As of 06NOV17
Role III treatment facility to medically treat disaster victims in San Juan PR and surrounding area

USNS COMFORT has 495 medical personnel onboard
- 45 Doctors, 112 Nurses, 3 Dentists, 21 Medical Support Officers, 314 Corpsmen

Medical Personnel assigned to COMFORT for this mission are not permanently assigned
- Have been taken out from Medical Treatment Facilities (MTF) in the U.S.
Cost of deployment

- A significant opportunity/real cost is incurred with each provider that is TAD from their home MTF
  - Example 1: 4 Pediatric providers on COMFORT would normally see a total of approximately 800 patients over the 5 weeks since departure
  - Example 2: 10 Anesthesiologists/Anesthetists would normally support over 1000 surgeries over 5 weeks (20 each per week)
  - Example 3: 4 general Surgeons would normally support 300 surgeries over 5 weeks
- To make up for lost manpower the alternatives are: to delay care for military personnel, families, and retirees; pay for out-of-network providers; increase workload on providers at home stations
Work of COMFORT and HHS DMAT

- Prior to current San Juan assignment, a total of 199 patients were referred to COMFORT (106 admits)
- Since arriving in San Juan, the DMAT/COMFORT team have seen 3,660 patients
  - 154 of these patients required hospitalization (4.2%)
  - The remaining 95% required Primary Care-level treatment
  - The majority of cases seen onboard COMFORT (1,340 total) are conditions that existed prior to hurricanes
  - A large number of patients seek duplicate pairs of glasses and routine dental work. These services are available throughout Puerto Rico and numerous providers have indicated the free services provided by COMFORT are taking earnings from them.
- Many patients desire secondary opinions from COMFORT/DMAT providers. The overwhelming majority of the diagnoses/prognoses provided by COMFORT/DMAT providers is in agreement with PR providers.
Key take-aways

1. The majority of cases, *including surgeries*, seen are not the result of Hurricanes Irma/Maria.
2. The main need for PR DoH is Primary Care Clinics vice Level II Trauma/high acuity hospitals.
3. The high number of providers removed from the Navy health system results in higher costs and delays needed care. Naval Medical Center Portsmouth alone has had 300 general surgeries affected over the past 5 weeks.
All in a Day’s Work in 2017

6

4,836
Deployed over 4800 NDMS, PHS, VA, and ASPR staff to support Hurricanes Harvey, Irma and Maria.

133
Days of Emergency Management Group activation for all three incidents (Level 1, 2 or 3).

36,370
Total number of patient’s cared for (“Patient Encounters”) over all three incidents.

975
Tons of materiel and resources deployed valued at over $67M to incidents, special events and 6 regions (TX, LA, GA, FL, PR and VI).
Q&A

You have Questions
We have Answers

THANK YOU