Hurricane Harvey 2017

Catastrophic Medical Operations Center
Who We Are

• 501(C3) non-profit, tax-exempt organization
• The organized under 1989 Omnibus Rural Health Care Rescue Act.
• SETRAC is one of 22 Regional Advisory Councils (RAC) currently functioning within the State of Texas.
Simple Definition of a Coalition:

1. A group of people, groups, or countries who have joined together for a common purpose
2. The action or process of joining together with another or others for a common purpose
Regional Healthcare Preparedness Coalition

Catastrophic Medical Operations Center
Our Coalition Region

- 25 Counties
- 277 cities
- 9.3 Million* (36%)
- 877,000/disabilities* (24%)
- 180 hospitals
- 900+ nursing homes
- TSA Q, R, H
Catastrophic Medical Operation Center
Tropical Storm Allison - June 2001

30-40” rainfall over 5 days

All freeways underwater

Extensive flooding and subsequent evacuation

TMC “off-line” with ripple effect throughout community

Hospitals responding individually within systems

Loss of 3000 acute care beds and 500 ICU beds overnight
Hurricanes Katrina and Rita - August 2005

• Katrina
  • Transportation and transfer of 1100 patients into healthcare facilities during Hurricane Katrina

• Rita
  • 29 healthcare facilities evacuated during Hurricane Rita
  • 121 Nursing Home evacuations during Hurricane Rita
  • Coordination of 34 Counties and 2 States
  • Transportation and transfer of an additional 2400+ patients into healthcare settings
  • Hospital diversion rate = 0%
  • Post event QA – 0.08% error rate
Hurricane Ike - 2008

- Evacuation and repatriation of 56 hospitals
- Evacuation and repatriation of 220 nursing homes
- Transportation and transfer of 15,000+ individuals
- Oxygen Strike Teams
- Ambulance Staging
- Dialysis and Medical Special Needs Transport circuit
- 4 Forward Coordinating Units
Orange Flooding
March 13-19, 2016

Houston Tax Day
Flooding April 2016
Hurricane Harvey - 2017
Precipitation Event

Area covered in more than 40 inches of rain: 3,643 square miles

Area covered in 30 inches of rain: 11,492 square miles

Area covered in 20 inches of rain: 28,949 square miles

Source: Dr. Shane Hubbart, Cooperative Institute for Meteorological Satellite Studies
CMOC Operations

8:00am 8/25/2017 – 3:00pm 9/9/2017

CMOC Level 3 Activation > Level 1 Activation

1-Type 4 Ambulance Staging > 1-Type 1 and 1-Type 2 Ambulance Staging

Air Operations

Daily Healthcare Calls
Patient Movement and Coordination

Total Patient movement: 1544

Patient Movement Missions: 773

Hospitals Evacuated: 24

Nursing Homes/ALC evacuated: 20
Additional Considerations

Search and Rescue

Medical Transfers for HLC

Mass Fatality

Dialysis

Mental Health

Medical Support for Shelters
Benefits of Regional Coalition Response

- Coordinating entity with SME’s
- Communication and situational awareness
- Relationship building
- Technology adjuncts
- Common operating picture
- Shared goals and restrictions
- Medical Safety Net
High Performing Coalitions

“A state of mindful attention among a group of actors that evolves from common training, intense communication, and a distinct culture derived from shared experience....”

“Developing these auto-adaptive systems... depend fundamentally on their access to timely, valid information and their ability to engage in information search, exchange, absorption, and adaptation.”

Louise Comfort: Auto-adaptive systems
Thank You

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