

HVA
Hazard Vulnerability Assessment:
The Key to Emergency Management

ashe.org/annual

Ellen Rasmussen - Sanford Health - Fargo Region
 Manager of Emergency Preparedness
Ellen.Rasmussen@SanfordHealth.org

Jonathan Flannery - ASHE/AHA
 Senior Associate Director of Advocacy
jflannery@aha.org

SURVIVAL
 OF THE **FITTEST**

2014 HFM, ASHE, AHE & AHRMM Survey

- Conducted online April 2014
- Random sample of 911 hospital and health system executives
- 88% of Respondents members of facility's emergency management team
- 91% work for a hospital or health system
- 33% Rural, 30% Urban, 23% Suburban

51st ASHE Annual Conference & Technical Exhibition
 ashe.org/annual

SOURCE: HFM/ASHE/AHE/AHRMM 2014 EMERGENCY MANAGEMENT SURVEY

2014 HFM, ASHE, AHE & AHRMM Survey

- 21 questions on emergency management
 - P&P on preparation for natural disasters
 - Terrorism preparedness
 - Mass casualties
 - Adequacy of emergency supplies and equip.
 - Recent emergency events
- States with most respondents:
 - California, Pennsylvania, New York, Texas, Florida and Illinois

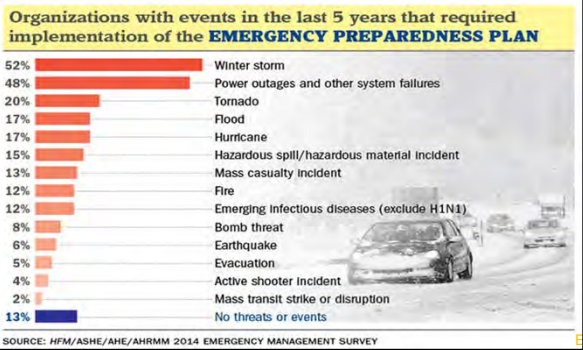
51st ASHE Annual Conference & Technical Exhibition
 ashe.org/annual

SOURCE: HFM/ASHE/AHE/AHRMM 2014 EMERGENCY MANAGEMENT SURVEY

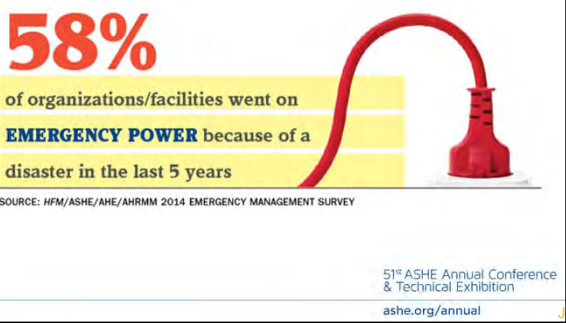
2014 HFM, ASHE, AHE & AHRMM Survey

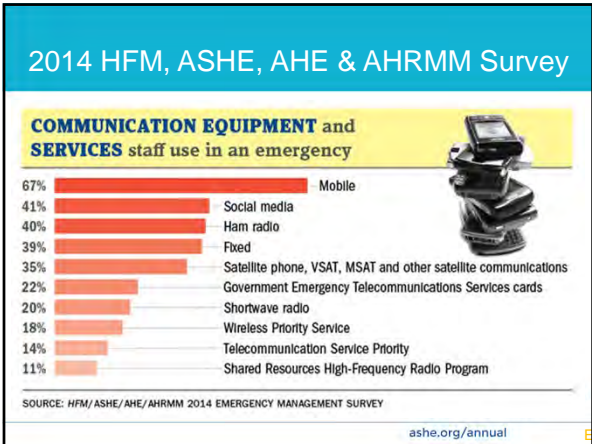


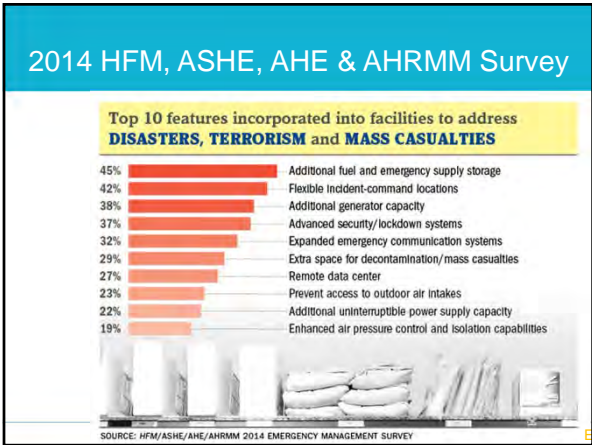
2014 HFM, ASHE, AHE & AHRMM Survey

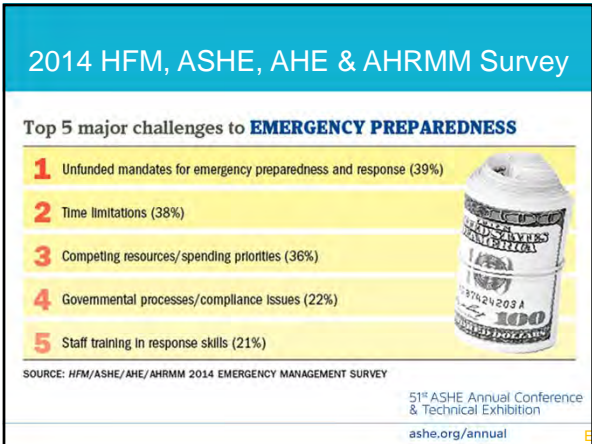


2014 HFM, ASHE, AHE & AHRMM Survey









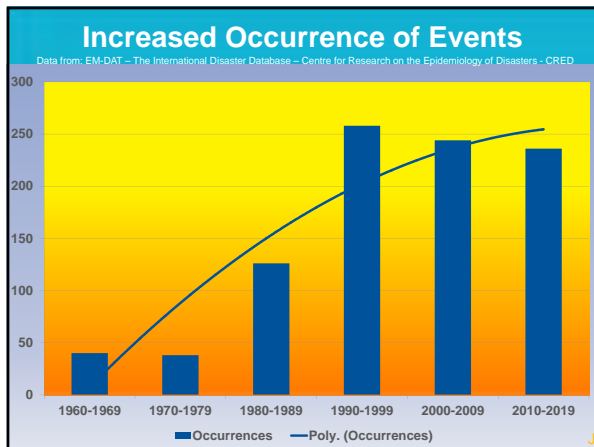


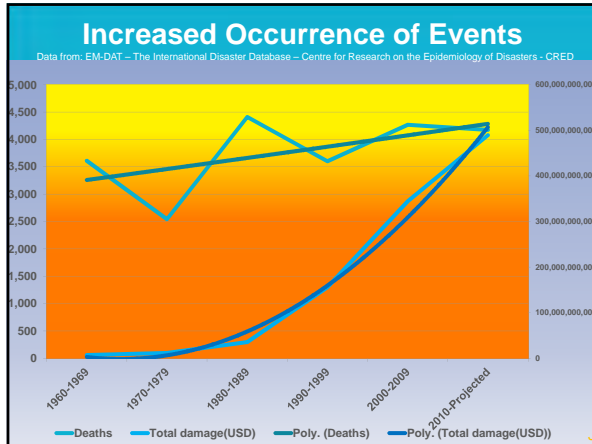
Increased Occurrence of Events

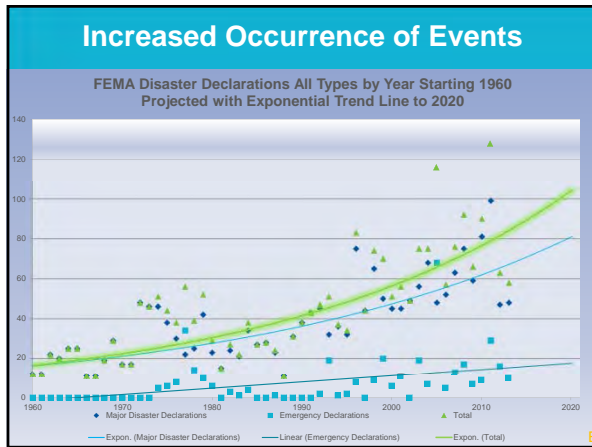
Data from: EM-DAT – The International Disaster Database – Centre for Research on the Epidemiology of Disasters - CRED

Time Period	Events	Deaths	Total Cost of Damages
1960-1969	40	3,610	7,001,000,000
1970-1979	38	2,543	11,556,000,000
1980-1989	126	4,411	35,362,570,000
1990-1999	258	3,601	156,010,150,000
2000-2009	244	4,267	344,251,790,000
2010-2019 (Projected)	236	4,175	559,554,135,000

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual







So What Does This All Mean?

- **We Should Expect More Events**
 - Costs are Increasing per Event
 - Deaths are Decreasing per Event
- **Sandy Survey Indicates**
 - Appropriate Responses Save Lives
 - Pre-planning and Preparation are Critical
 - Evacuations are an Option

Emergency Management
is the Key

51st ASHE Annual Conference
& Technical Exhibition
ashe.org/annual

Emergency Management

- **NFPA 99 2012 Edition – Chapter 12**
 - assess, mitigate, prepare for, respond to, and recover from emergencies of any origin
- **Preparation is Vital**
 - HVA
 - EOP
 - Drills
- **Thorough Analysis & Documentation of Plans Critical**

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Hazard Vulnerability Assessment

- **HVA**
 - **Responsibility of EMC**
 - Multidisciplinary - Representatives from key areas
 - **Must Prioritize Hazards**
 - Community Involvement
 - **Identify and Assess**
 - Potential Risks, Likelihood, Impact
 - Natural, Human-caused and Technological Hazards
 - Must analyze 9 Potential Impacts

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Potential Impact

- Continuity of operations
- Care for new and existing patients/residents/ clients
- Health, safety, and security of persons in the affected area
- Support of staff
- Property, facilities, and infrastructure
- Environmental impact
- Economic and financial conditions
- Regulatory and contractual obligations
- Reputation of, or confidence in, the facility

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Hazard Vulnerability Assessment

- **HVA**
 - Key Stone to Emergency Management
 - What are the Challenges?
 - Unknown
 - Lack of Focus
 - Inordinate Focus
 - Herd Mentality
 - Let Technology Assist

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Emergency Operations Plan

- **EOP**
 - Responsibility of EMC
 - Command and Reporting Structure – ICS
 - Activation and Deactivation
 - Facility Capabilities and Procedures for Critical Functions
 - Covers 4 Stages
 - Mitigation, Preparedness, Response, Recovery
 - Coordinate with Emergency Response Agencies
 - Community, Local, State and Federal

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Plan Maintenance

- **Staff Education**
 - NEO
 - General and ICO
 - Department Specific
 - Annually
 - Duties and Responsibilities
 - Position Specific
 - Familiar with ICO
 - Specific to level of assignment

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Plan Maintenance

- **Testing**
 - **Twice Annually**
 - Functional or Full-scale Based on HVA
 - Cat 1 = Influx
 - Monitored
 - Debrief
 - Incorporation of Improvements

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Plan Maintenance

- **Administration**
 - **Update Annually**
 - HVA
 - EOP
 - **Written Records**
 - Drills
 - Exercise
 - Training
 - 3 Years

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

New EP's Effective 2014

- Identify a leader to oversee EM Program
- Consider input from staff at different levels when evaluating
- Senior hospital leadership to review
 - Organization's emergency management planning
 - Performance in exercises and responses to events
 - To facilitate improved communication of problem areas and implementation of hospital wide solutions

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Summary

- **Emergency and Disasters are on the Rise**
- **Super Storm Sandy**
 - Proves the importance of
 - Preparation and Planning
 - Evacuation is an Option

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

Summary

- **Emergency Management is the Key**
 - Thorough Analysis and Documentation Vital

HVA EOP DRILLS
- **Hospitals with dedicated and full-time emergency preparedness staff weather the storm better than those who do not have this resource.**

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual

HVA
 Hazard Vulnerability Assessment:
 The Key to Emergency Management

Questions?

Ellen Rasmussen - Sanford Health - Fargo Region
 Manager of Emergency Preparedness
Ellen.Rasmussen@SanfordHealth.org

Jonathan Flannery – ASHE/AHA
 Senior Associate Director of Advocacy
jflannery@aha.org

SURVIVAL
 OF THE **FITTEST**

51st ASHE Annual Conference & Technical Exhibition
ashe.org/annual
