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Now is the Time to Prepare Future Nurses for Disasters

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Objectives

Participants will be able to:

- Articulate the importance of integrating disaster education into the nursing curriculum.
- Examine innovative pedagogical methods of disaster education across the nursing curriculum.



Nurses in the United States are inadequately prepared to respond to disasters.

Veenema, et al., 2016



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Disasters



Hurricane Maria - Puerto Rico, 2017 (K. Eid-Heberle)



Floods - Texas, 2016 (FEMA News Photo)



Terrorism - New York, 2001 (FEMA News Photo)



Volcano Eruption - Big Island of Hawaii, 2015 (FEMA News Photo)

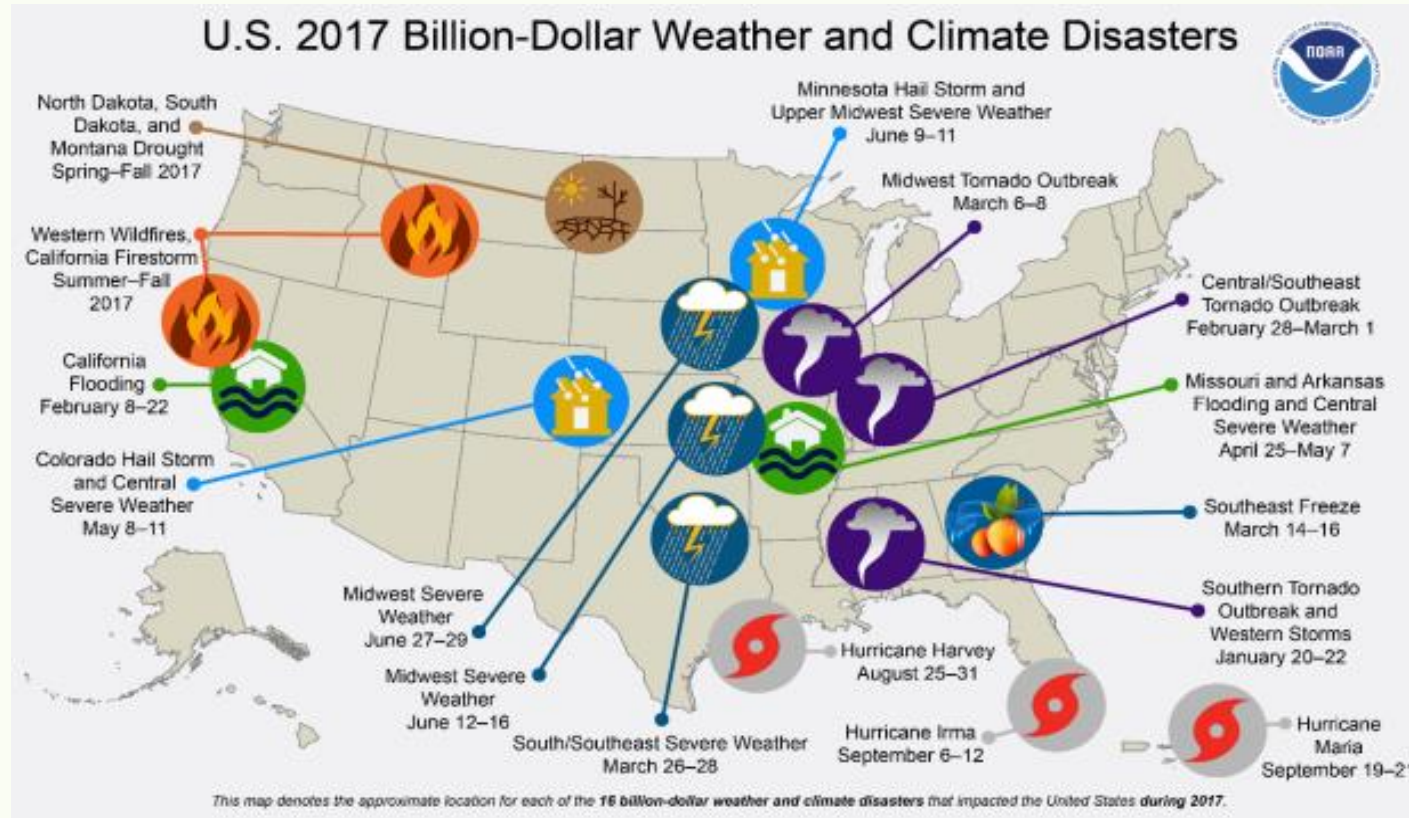


Houston Astrodome 2005 (American Red Cross)



Tornado - Joplin, MO, 2011

Billions Dollar Disasters



Smith, 2018



Goals of the Disaster Curriculum

The goals of the disaster curriculum are to:

- Ensure nurses are personally prepared for a disaster so they can report to work when called upon.
- Enable students to transition into nursing practice with basic disaster knowledge and capabilities to effectively and safely respond to an event.
- Ensure nurse practitioners possess the knowledge and skills to appropriately assess, diagnose, and treat individuals affected by disasters.
- Provide nurse leaders with the knowledge to prepare for and manage a disaster incident impacting their institution.
- Recognize the importance of collaborating with other agencies before, during, and after a disaster.



Disaster Content Across the Curriculum

Role of the Nurse:

- Disaster Planning, Response, Management, and Recovery
- Working with Government and Non-Government Agencies
- Natural, Chemical, Biological, Radiological, Nuclear, and Explosive
- Decontamination
- Alternate Care Sites
- Vulnerable Populations
- Ethical, Legal, and Moral Issues



On-Line Learning

Enhanced learning through on-line modalities:

- Federal Emergency Management Agency (FEMA)
 - IS-100.c: Introduction to the Incident Command System
 - IS-200.HCA: Applying ICS to Healthcare Organizations
 - IS-700.b: An Introduction to the National Incident Management System (NIMS)
- American Red Cross
 - Disaster Cycle Services: An Overview
 - Disaster Health Services Fundamental 1
 - Disaster Health Services Fundamental 2



Mobile Applications

- The Weather Channel
- Local Alert System
- American Red Cross
 - First Aid, Disaster Preparedness, Shelter Finder, Volunteer, etc.
- Federal Emergency Management Agency (FEMA)
 - Disaster Preparedness, Disaster Safety Tips, Disaster Recovery Centers, etc.
- National Institute of Health (NIH) - Wireless Information System for Emergency Responders (WISER)
 - Chemical Hazards Emergency Medical Management (CHEMM)
 - Radiation Emergency Medical Management (REMM)
 - Hazardous Substances Data Bank (HSDB)
 - WMD Response Guidebook

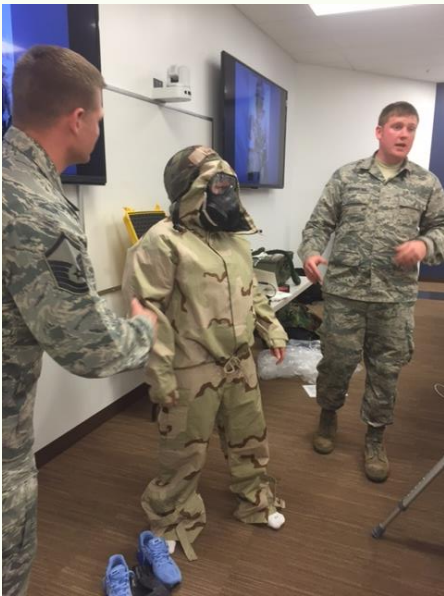


Transforming Teaching

Application of didactic content is achieved through experiential learning opportunities and interprofessional experiences.

- Personal Disaster Plan and Kit
- Tabletop Exercises
- External Learning Opportunities
- Local and State Disaster Drills
- Agency/Organization Disaster Plan
- Interprofessional Disaster Simulations
- Virtual Reality Technologies





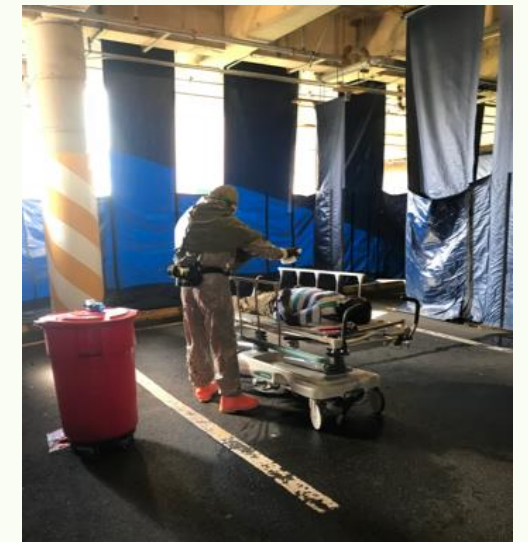
Guest Presenters - Air National Guard, Winchester, VA



Disaster Operation Center - American Red Cross, National Headquarters, Washington, D.C.



Decontamination Exercise - Loudoun County, VA



Hospital Decontamination Drill - Fairfax County, VA



Interprofessional Disaster Simulation – Winchester, VA



360 Virtual Reality – Winchester, VA

Program Outcomes - Undergraduate

- American Nurses Association (ANA)
- American Association of Colleges of Nursing (AACN) - Essentials of Baccalaureate Education for Professional Nursing Practice
 - Essential VII: Clinical Prevention and Population Health
 - Essential IX: Baccalaureate Generalist Nursing Practice
- National Council of State Boards of Nursing (NCSBN)
 - 2016 NCLEX-RN Detailed Test Plan
 - Safety and Infection Control



Program Outcomes - Graduate

- American Nurses Association (ANA)
- American Association of Colleges of Nursing (AACN) - Essentials of Master's Education in Nursing (2011)
 - Essential III: Quality Improvement and Safety and Essential VIII: Clinical Prevention and Population Health for Improving Health
- American Association of Colleges of Nursing (AACN) - Essentials of Doctoral Education for Advanced Nursing Practice (2006).
 - Essential VII: Clinical Prevention and Population Health for Improving the Nation's Health
- Family Nurse Practitioner Board Certification Examination
 - Section I-D: Clinical Prevention and Population Health for Improvement of Outcomes



A Call To Action

Nurses in all specialties are key players in all types of local, national, and global disaster responses.

Veenema, et al., 2016



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