Locating Reliable Disaster Health Resources on the Internet

April 23, 2013
Robinwood Professional Center
Newman Auditorium, Suite 142

Instructor: Mary Spalding, MA, MLIS
Medical Librarian, Meritus Health, Inc., and Western Maryland Area Health Education Center (AHEC)

This program is sponsored in whole or in part by the National Library of Medicine and co-provided by Meritus Health, Inc., and Western Maryland AHEC
The following faculty and planning members reported that they have no relationships with any commercial organizations to report:

- Mary Spalding, MA, MLIS; Program Coordinator/Medical Librarian, Western Maryland Area Health Education Center and Meritus Health Medical Librarian
- Lynne Waldron, MS, RN; Curriculum and Training Educator, Meritus Medical Center
What do you, as a first responder, do when you find a senior citizen, dependent on oxygen, without power?

This class will provide information on how to access disaster health information. There is information available on the web, but many people have never accessed it or looked for it. This training will demonstrate how to access a variety of local and national disaster health resources. The class will also include important information to have downloaded before disaster strikes. The three westernmost counties of Maryland have a high elderly population, so this class will focus on seniors who are so vulnerable in a disaster.
Objectives

- Identify reliable regional and national disaster health information for health professionals
- Describe disaster preparedness for health professionals, particularly as it relates to senior citizens
Mary Spalding, MA, MLIS
Western Maryland AHEC Program
Coordinator and Medical Librarian

- Master’s Degree in Library and Information Science from University of South Carolina; Master’s Degree in English from West Virginia University with additional PhD course work;
- Medical Librarian for WMAHEC since 1999;
- Under contract with WMAHEC, serve as medical librarian with oversight of library budget, resources, and services for Meritus Health in Hagerstown, Maryland [recently gave notice, however; will no longer work at Meritus as of May 10];
- Serve as medical library consultant for Western Maryland Health System and Somerset Hospital;
- Writer, coordinator, and/or project investigator for numerous federal grants and contracts involving health care and library services, including the National Library of Medicine, National Network of Libraries of Medicine, U.S. Health Resources and Services Administration, Appalachian Regional Commission. She wrote and served as project investigator of a 1999 National Leadership Grant from the U.S. Institute of Museum & Library Services (IMLS) that provided training in emerging library technologies for rural librarians in three states; she also served as National Leadership Grant reviewer for IMLS the following year.
"Safe Seniors: Appalachian Disaster and Emergency Health Information Outreach"

Western Maryland Area Health Education Center Learning Resource Center *in partnership with:*

- Allegany College of Maryland Health Continuing Education Department
- Allegany County Health Department
- Emergency Preparedness Caucus, WMAHEC
- Frostburg State University Pre-Medical Society
- Garrett County Health Department
- **Meritus Health Medical Library and Education Department**
- Social Work Caucus - Allegany/Garrett Counties, WMAHEC
- Social Work Caucus - Washington County, WMAHEC
- Washington County Health Department
- Western Maryland Health System Parish Nurse and Health Minister Program

The goal of Safe Seniors: Appalachian Disaster and Emergency Health Information Outreach is to improve disaster medicine and public health information access for health professionals, first responders and others (paid or volunteer) who play a role in health-related disaster preparedness, response, and recovery in three rural Appalachian counties in Maryland, with a focus on the elderly population.
Please!

◦ Be sure to complete the WMAHEC Participant Information Form and course pre-test and turn it in to the instructor at the beginning of class.

◦ **Sign in** on the sign-in sheet.

◦ Complete a **course evaluation** and **post-test** found in your packet and turn it in before the instructor leaves.

THANK YOU! These materials help WMAHEC plan better programs!
How will I ever find evidence-based resources for my unit’s disaster plan?

Just Google it, Stupid!
Where did you get the data for this report, Milquetoast?

Wh–wh–why, Sir? Isn’t the Keystone Cops Hospital Evacuation Plan a reliable source?
Don’t let this happen to you! More important—don’t let your community members down in what could be their darkest hours.

- So, how do you protect yourself and those you are concerned about when seeking information and resources for disaster preparedness?
  - Of course, always conduct thorough, thoughtful research using Web-based and print literature, and
  - Know good evaluation methods for information and resources and apply them yourself, OR….
  - *Let medical librarians do the work for you!*
If you must have best/promising practices and/or peer-reviewed literature, will a Google search suffice?

NO!
The National Library of Medicine has
- located those resources,
- evaluated them for quality and reliability, and
- organized those selected for easy retrieval by health professionals, public health officials, first responders, and others with a role in disaster preparation and management.

The core purpose of the Disaster Information Management Research Center (DIMRC) is to develop and provide access to health information resources and technology for disaster preparedness, response, and recovery. Our intent is to connect people to quality disaster health information and foster a culture of community resiliency.
National Library of Medicine
Disaster Information Specialist Program

Description of our program found here!

Monthly meetings—Anyone can join these Webcasts!
Selection Guidelines for Non-National Library of Medicine Resources


Selection Guidelines

- U.S. Government and non-U.S. Government sites meeting evaluation criteria, including:
  - Clearly stated relevant purpose;
  - Authority, Credibility, and Affiliation
  - Content, Coverage, and Currency
  - Point of View
  - Access, Navigation, and Availability
  - Language

Accessibility for persons with disabilities (visual or other) is a core consideration in creation of NLM sites and selected links.
Disaster Types and Topics—Directory with links to Web resources evaluated by medical librarians for quality and reliability

Resource Guide—Search public health, disaster medicine, and related information available on the Web

Search PubMed for Peer-Reviewed Disaster Health Literature; Register as Loansome Doc user to order articles through your library or bring citations to librarian
• Each Disaster topic ends with links to PubMed/ MEDLINE citations on that topic with the search already done for you!

• See your medical librarian at Meritus to obtain copies if they aren’t provided in full text.
Free Disaster and Emergency Response Tools from the National Library of Medicine

Wireless Information System for Emergency Responders (WISER) - A system to help emergency responders identify hazardous materials and respond to chemical emergencies. Contains information on over 400 chemicals and radiologic agents.

Radiation Emergency Medical Management (REMM) - Guidance on the clinical diagnosis and treatment of mass casualty radiological/nuclear events for health care providers.

Chemical Hazards Emergency Medical Management (CHEMM) - Guidance on planning, response and recovery related to chemical mass casualty incidents.
Tutorials Available for Most Products

Basic Searching of the Hazardous Substances Data Bank (HSDB)

WISER

Features

- Key Information for Emergency Responders on almost 450 hazardous substances
  - Chemicals
  - Radiological Isotopes
  - Biologicals
- Tool to Identify Unknown Chemicals
- Supplemental Materials
  - Triage Tools
  - Radiation Event Response Guides and Tools
  - Comprehensive electronic version of Emergency Response Guidebook
  - WMD Response Guidebook
- Available for Palm OS, Windows Mobile, Windows PCs
- Available online: WebWISER
At NLM DIMRC, find best/promising practices and evidence-based literature from national and local organizations, even ...
• Bioterrorism
  Resources about biological warfare agents, bioterrorism, and tools to help identify and treat exposure to biological agents.

• Chemical Emergencies
  Information about chemical emergencies, both accidental and intentional, including tools to help first responders identify, contain and treat hazardous substances.
  • Chemical Warfare
  • Crude Oil Spills and Health
  • TVA Kingston Fossil Plan Coal Ash Spill
  • CHEMM - Chemical Hazards Emergency Medical Management
  • WISER - Wireless Information System for Emergency Responders
  • TOXNET
  • Tox Town

• Fires and Wildfires
  Resources about health issues related to fires and wildfires including injuries, carbon monoxide poisoning, and coping with stress.

• Geological Hazards
  Resources about geological hazards including health-related information about earthquakes, volcanoes, tsunamis, landslides and mudslides.
  • Earthquakes
  • Japan Earthquake, Tsunami, and Radiation Event - March 2011
  • Haiti Earthquake
  • Chile Earthquake

• Pandemic Disease Outbreaks
  Information about H1N1 and other pandemics.

• Radiation Emergencies
  Resources and tools about responding to radiation emergencies.
  • REMM - Radiation and Emergency Medical Management
  • Japan Earthquake, Tsunami, and Radiation Event - March 2011

• Weather and Storms
  Information about hurricanes, tornadoes, floods, extreme cold and other weather-related hazards.
  • Climate Change and Health
  • Droughts and Health
  • Extreme Heat
  • Floods
  • Hurricanes
  • Hurricanes Katrina, Rita, Wilma: Impact on Environmental Health
Resources About Coping with Disasters, Violence, and Traumatic Events – Including For the Health Professional
Disaster-Related Topics

- Animals in Disasters
- Disaster Apps and Mobile Optimized Web Pages
- Community Preparedness
- Coping with Disasters, Violence, and Traumatic Stress
- Disaster Recovery
- Ethics in Disaster Medicine and Public Health
- Personal Preparedness
- Mass Gatherings
- Special Populations
- Disaster-Related Competencies for Healthcare Providers
- Sources of Emergency and Disaster Information from the U.S. Government
Disaster-Related Competencies for Healthcare Providers

- Community Volunteers
- Culturally Competent Responders
- Emergency Managers
- Humanitarian Workers
- Long-Term Care Facility Providers
- Medical Reserve Corps
- Multiple Disciplines
- Nurses
- Pharmacists
- Physicians
- Public Health Professionals and Stakeholders
- Veterans Affairs Employees
- Veterinarians

Community Volunteers

- CERT Training Materials
- Code of Good Practice in the Management and Support of Aid Personnel: Principles and Indicators (PDF, 88.4 KB)
- People in Aid
- DSHR [Disaster Services Human Resources] Competencies & Activity Checklists
  Oregon Red Cross Disaster Services Human Resources. Lists competencies for 32 positions.

Competencies and Online Courses for Health Professionals, many with CEUs
Multiple Disciplines

- Development of National Standardized All-Hazards Disaster Core Competencies for Acute Care Physicians, Nurses, and EMS Professionals

- Consensus-based Educational Framework and Competency Set for the Discipline of Disaster (PDF, 406.9 KB)


- Core Competencies for Disaster Medicine and Public Health

- Emergency Preparedness and Response Guide for Health Care Workers (PDF, 120.8 KB)
  Center for Public Health Preparedness, Columbia Mailman School of Public Health

- On Academics: Training for Mental Health Personnel: The Development of Proposed Core Competencies in Disaster Mental Health

- Developing Core Competencies, Content, and Competencies for the Training of Emergency Medical Technicians, Emergency Physicians, and Emergency Nurses to Care for Casualties Resulting From Nuclear, Biological, or Chemical (NBC) Incidents: Final Report
  Office of Emergency Preparedness and American College of Emergency Physicians

- Recommended Hospital Staff Core Competencies for Disaster Preparedness (PDF, 359 KB)
  Florida State Working Group / Florida Hospital Association

- Healthcare Worker Competencies for Disaster Training

- Development of an “All-Hazards” Hospital Disaster Preparedness Training Course Using Multi-Modality Teaching (PDF, 357 KB)
  See “Table 1 — Seven Core Competencies for Healthcare Workers in the Area of Disaster Training.”
And for specific ones!

**Nurses**

- The Role of Public Health Nurses in Emergency Preparedness and Response: Position Paper (PDF, 244.6 KB) Association of State and Territorial Directors of Nursing
- Educational Competencies for Registered Nurses Responding to Mass Casualty Incidents Nursing Emergency Preparedness Education Coalition
- Develop Nursing Students’ Disaster Competency by Working with the American Red Cross (PDF, 116.4 KB) American Red Cross
- Disaster Preparedness White Paper for Community/Public Health Nursing Educators (PDF, 40.2 KB) Association of Community Health Nursing Educators
- Core Competencies Required for Disaster Nursing University of Hyogo Graduate School of Nursing
- ICN Framework of Disaster Nursing Competencies (PDF, 2.1 MB) International Council of Nurses

**Pharmacists**

- Pharmacist Readiness Training Program: Pharmacist Readiness Roles and Competencies (PDF, 120.9 KB) U.S. Public Health Service
Disaster Medicine and Public Health Literature

- **PubMed**
  Thousands of references on disaster/emergency preparedness and response (including natural disasters, bioterrorism, chemical terrorism, and pandemic flu)

- **PubMed Central**
  Archive including thousands of free full-text articles on disaster/emergency preparedness and response

  A gateway to free online resources on disaster medicine and public health including expert guidelines, factsheets, websites, technical reports, articles, and other tools.

- **Journals**
  English language journals on disaster and emergency medicine.

**Disaster Medicine**
- American Journal of Disaster Medicine
- Australasian Journal of Disaster and Trauma Studies (Not indexed in PubMed)
- Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science
- Disaster Medicine and Public Health Preparedness
- Disasters
- Journal of Business Continuity and Emergency Planning
- Journal of Special Operations Medicine: A Peer Reviewed Journal for SOF medical professionals
- Medicine, Conflict, and Survival
- Military Medicine

**More NLM Disaster Information Resources**
- Disaster and Emergency Response Tools from NLM
- TOXNET - Toxicology and Environmental Health Resources
- NLM Disaster Health Links
- Directory of Disaster-Related Organizations

Links to disaster journals and articles in PubMed and elsewhere.
Development of national standardized all-hazard disaster core competencies for acute care nurses, and EMS professionals.

Schultz CH, Koenig KL, Whiteside M, Murray R; National Standardized All-Hazard Disaster Core Competencies Task Force

Abstract

The training of medical personnel to provide care for disaster victims is a priority for the physician community, and society as a whole. Course development for such training guided by well-accepted standardized core competencies is, however. This project identified a set of core competencies and performance objectives based on the knowledge required by the specific target audience (emergency department nurses, emergency physicians, and out-of-hospital services personnel) to ensure they can treat the injuries and illnesses experienced by victims of disasters regarding their competencies provide a blueprint for the development or refinement of disaster training courses. This expert committee, supported by a grant from the Robert Wood Johnson Foundation, incorporated an all-hazard, comprehensive approach addressing every type of disaster to minimize the effect on the public's health. An instructional system was used to guide the development of audience-appropriate competencies and performance objectives. Participating academic and provider organizations used a modified Delphi approach to achieve consensus on recommended competencies.
Searchable Resource Guide (Found on Home Page)—This search returned resources for rural preparedness.

1. Public Health Emergency Community Preparedness for Tribal and Rural Communities

   Source: University of Arizona, Mel and Enid Zuckerman College of Public Health, Mountain West Preparedness and Emergency Response Learning Center

   Date Published: 09/2012

   Format: Video or Multimedia

   Annotation: The purpose of this course is to help public health professionals learn to identify key aspects for local community emergency preparedness plans; describe training and education opportunities which...

   URL: http://lms.mwperl.cornarizona.edu/

   Type: Instructional/Training Material
Communications During Emergencies

• Patient Information Management
• Information Access During Disaster Response
Pilot Project for Hospital Preparedness

- Project Poster

Lost Person Finder: This project evaluates the use of information technology applications to facilitate the reunification of separated people via computer, mobile phone, PDAs and other media. A searchable, Web-based database of information from the BHEPP hospital enables family, friends, and neighbors to locate missing patients during a disaster event.

- Project Poster

Responder Preparedness

Virtual World Instruction: This project uses traditional multimedia instruction using both professional and information about various HICS (Hospital Incident Command System) training.

- Project Poster
- Project Video:

For More Information: http://www.bhepp.org

http://www.youtube.com/watch?feature=player_embedded&v=hYEgZxHQHjQ
From FEMA: www.disasterhero.com
State and Local Resources
Search for state agencies and organizations (or for organizations devoted to a particular purpose) on DIMRC home page
Maryland Office of Preparedness and Response (DHMH)

http://preparedness.dhmh.maryland.gov/SitePages/Home.aspx
Maryland Institute for Emergency Medical Services (MIEMSS) Seminar

- May 1–5, 2013:
- EMS Care: Riding the Wave – Ocean City

http://www.miemss.org/home/

MIEMSS offers additional disaster training opportunities throughout the year
State of Maryland Resources

- **DHMH Maryland Responds—Medical Reserve Corps (MRC):** The MD Responds team consists of health care professionals and community members ready to assist with disaster and emergency response and recovery during a declared emergency. MD Responds coordinates the recruitment, training, activation, and retention of practicing and retired physicians, nurses, other health professionals, as well as citizens who are eager to address their community's ongoing public health needs and to help during large-scale emergencies.

  [http://mdr.dhmh.maryland.gov/SitePages/Home.aspx](http://mdr.dhmh.maryland.gov/SitePages/Home.aspx)
Washington County Emergency Management

http://www.washco-md.net/EmergencyServices/eman_home.shtm
Washington County Health Department

Maryland (MD) Responds

MD Responds is a web based system where you can volunteer to assist in the aftermath of a disaster, emergency, public health crisis or other public health events. You may have skills or training that could assist in the event of a public health emergency. These persons include:

- Healthcare professionals, such as physicians, nurses, pharmacists, dentists, nursing assistants, respiratory therapists, psychiatrists, and veterinarians
- Public health professionals
- Behavioral health and social service professionals including psychologists, social workers, counselors, professional counselors, interpreters, and chaplains
- Support staff such as clerical workers, data entry, greeters, traffic control, and shelter workers

For more information, or to register as a volunteer, please visit the Maryland Responds online registration system.

Washington County Emergency Alert Notification System

This emergency notification system enables the County to provide you with critical information quickly in a variety of situations, such as severe weather, evacuation of buildings or neighborhoods.

The system uses listed phone numbers, but you may also enter additional ways of contacting you. You will receive time-sensitive messages wherever you specify – by phone, email, text messages, hearing impaired receiving devices, and more. You pick where, you pick how. The information you enter is protected and will not be shared.

For more information, or to register to receive alerts, please visit Washington County Division of Emergency Services.
Do you know where to find the Meritus disaster plan?

When is the last time you reviewed it?

Don’t wait until disaster strikes . . .

PREPARE NOW!
Thank you! ... And please ....

- Complete your post-test and evaluation form and return to instructor today.

- Be sure you turned in your Participant Information Form.

- Contact Mary Spalding with any additional resources you’d recommend, either local or national.