

# Information Toolkit for Disaster Preparedness & Response

February 23, 2017

**Elizabeth Norton, MPH, MBA, MLS**

Disaster Information Management Research Center

Specialized Information Services

U.S. National Library of Medicine

# U.S. National Library of Medicine





# Disaster Information Management Research Center

## Mission

To develop and provide access to health information resources and technology for disaster preparedness, response, and recovery

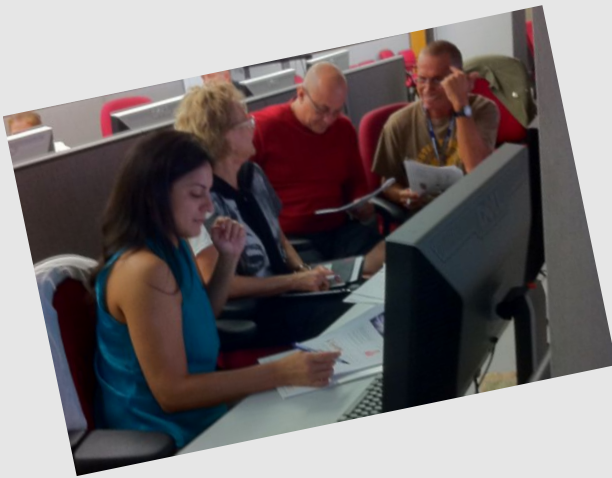
Connect people to quality  
disaster health information and  
foster a culture of community  
resiliency



St. John's Hospital, Joplin, MO after 2011 tornado

# Why Librarians and Libraries?

- Information is critical and librarians are information specialists
- Librarians are service-oriented, community-based resources
- Libraries are information hubs with computers and Internet access



# The Stafford Act

- Libraries are “essential community services” eligible for federal assistance “for the provision of temporary facilities”
- “Eligible public facilities include police, fire protection/emergency services, medical care, education, **libraries**, utilities and other essential community services.

Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public Law 93-288 as amended),

<https://www.fema.gov/robert-t-stafford-disaster-relief-and-emergency-assistance-act-public-law-93-288-amended>

RP9523.3 Provision of Temporary Relocation Facilities, December 14, 2010

[www.fema.gov/pdf/government/grant/pa/9253\\_3.pdf](http://www.fema.gov/pdf/government/grant/pa/9253_3.pdf)

# Disaster Workforce: Professionals and Volunteers





# What Disaster Topics Do We Cover?

*Events that overwhelm, or threaten to overwhelm, the local capacity to respond.*

Natural Disasters

Health  
information  
resources for  
professionals

Chemical, biological,  
radiation, nuclear and  
explosive causes of  
multiple injuries and  
death

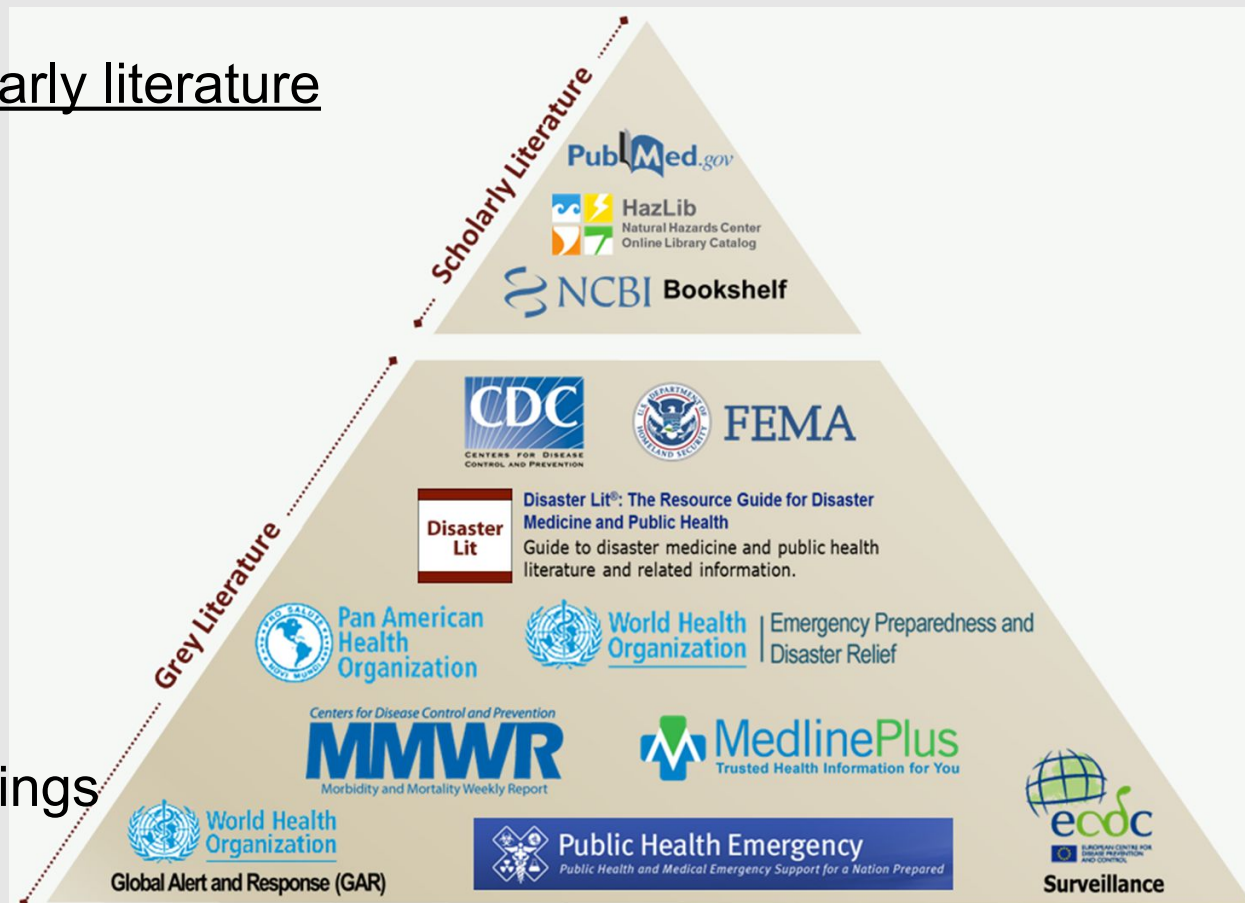
All-hazards topics:

- Children in Disasters
- Mass Gatherings
- Ethics & Legal Concerns
- Emotional Coping with Disasters

Pandemic or epidemic  
infectious diseases;  
outbreaks following  
disasters

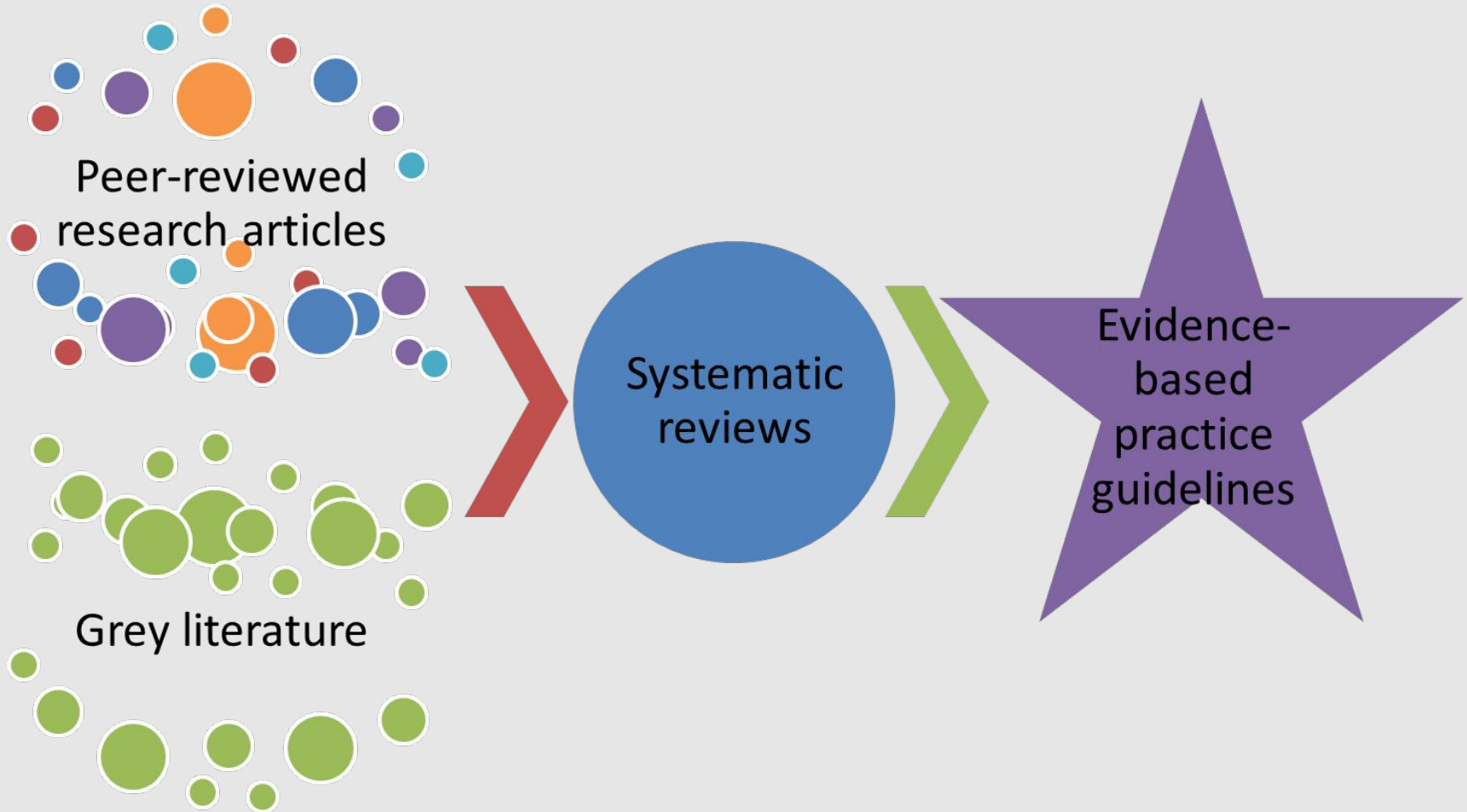
# Disaster Health Information

- Peer-reviewed scholarly literature
- Journal articles
- Books
- “Grey” Literature
- Reports
- Summaries
- Surveillance data
- Training materials
- Conference proceedings





# Evidence-Based Information




# NLM Selection Guidelines

- Authoritative and Credible Source
- Relatively Current
- No Point of View/No Advertisements
- Audience Appropriate
- Accessible and Available
- Language Appropriate


# Information Tool Kit





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## Winter Weather Emergencies






**In the Spotlight**

- Coping with Disasters and Traumatic Stress
- Zika Virus Health Information Resources
- Children in Disasters: Health Resources
- NIH Disaster Research Response Project (DR2)
- Disaster Apps and Mobile Web Sites

**A to Z Index of Resources**

A	B	C	D	E	F	G	H	I
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S	T	U	V	W	X	Y	Z	#

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Disaster Information Specialist Webinar  
**Thursday, March 9, 2017 at 1:30 pm ET**  
*"Big Data and Data Science: What Do We Need to Know?"*

[Recordings and slides from previous meetings...](#)

**Disaster Medicine and Public Health Literature**


**Disaster Lit®: The Resource Guide for Disaster Medicine and Public Health**

Guide to disaster medicine and public health literature and related information.

**PubMed**

Database of biomedical journal citations and abstracts.

**HazMat/CBRN (Chem, Bio, Rad, Nuclear)**

**WISER: Wireless Information System for Emergency Responders**

**New Documents from Disaster Lit®**


- EMMA: ECDC (European Centre for Disease Prevention and Control) Map Maker
- [More...](#)

**New in PubMed**


- Caring for Older Adults in Disasters.
- [More...](#)

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New in Disaster Lit: HPP (Hospital Preparedness

# Tools in the Toolkit



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HazMat/CBRN (Chem, Bio, Rad, Nuclear)

**WISER: Wireless Information System for Emergency Responders**

System to assist first responders and first receivers in hazardous material incidents.  
**Now with CHEMM content.**

**REMM: Radiation Emergency Medical Management**

Guidance about clinical diagnosis and treatment of radiation injuries during radiological and nuclear emergencies.

**CHEMM: Chemical Hazards Emergency Medical Management**

Guidance on planning, response and recovery related to chemical mass casualty incidents.

Response Project (DINE)

[Disaster Apps and Mobile Web Sites](#)

New Documents from Disaster Lit®

[EMMa: ECDC \(European Centre for Disease Prevention and Control\) Map Maker](#)

[More...](#)

New in PubMed

[Rural families' interpretations of experiencing unexpected transition in the wake of a natural disaster.](#)

[More...](#)

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Tweets by @NLM\_DIMRC

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@MSF\_USA Webinar Thurs 8pmET Ebola's Aftermath: A West African Update  
[ow.ly/AXLo309gqZb](#)

**Ebola's Aftermath: A ...**  
Ebola's Aftermath: A ...  
[eventbrite.com](#)

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# Tools in the Toolkit (6)

The screenshot displays the NLM Disaster Medicine and Public Health Toolkit website. Several sections are highlighted with red boxes:

- Stay Connected:** Includes links to "Join the Discussion List", "Get Email Updates", "Subscribe to RSS", "Follow us on Twitter", and a "Share" button.
- Announcements:** Features a "Disaster Information Specialist Webinar" scheduled for Thursday, March 9, 2017, at 1:30 pm ET, titled "Big Data and Data Science: What Do We Need to Know?". It also mentions "Recordings and slides from previous meetings..."
- Disaster Medicine and Public Health Literature:** Contains links to "Disaster Lit®: The Resource Guide for Disaster Medicine and Public Health" (described as a "Guide to disaster medicine and public health literature and related information.") and "PubMed" (described as a "Database of biomedical journal citations and abstracts.").
- HazMat/CBRN (Chem, Bio, Rad, Nuclear):** Includes three resources:
  - WISER:** Wireless Information System for Emergency Responders. "System to assist first responders and first receivers in hazardous material incidents. Now with CHEMM content."
  - REMM:** Radiation Emergency Medical Management. "Guidance about clinical diagnosis and treatment of radiation injuries during radiological and nuclear emergencies."
  - CHEMM:** Chemical Hazards Emergency Medical Management. "Guidance on planning, response and recovery related to chemical mass casualty incidents."
- Tweets by @NLM\_DIMRC:** Displays a tweet from NLM Disaster I... (@NLM\_DIMRC) about an MSF\_USA Webinar on Thursday at 8pm ET, titled "Ebola's Aftermath: A West African Update", with a link to ow.ly/AXLo309gqZb. Below the tweet is a photo of a healthcare worker attending to a patient and the text "Ebola's Aftermath: A ...", "Ebola's Aftermath: A ...", and "eventbrite.com".

Other visible sections include "Training Courses & Resources", "Search Our Web Pages", "A to Z Index of Resources", "New Documents from Disaster Lit®", "New in PubMed", "About the Center", and "DISASTR List Archives".

# Disaster Lit: The Resource Guide for Disaster Medicine and Public Health

- Grey Literature
  - Training
  - Guidelines
  - Planning docs
  - Reports
- Enter search term or phrase

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Resource Guide for Disaster Medicine and Public Health**

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Enter search terms | Search

**Disaster Lit: the Resource Guide for Disaster Medicine and Public Health** is a database of links to disaster medicine and public health documents available on the Internet at no cost. Documents include expert guidelines, research reports, conference proceedings, training classes, fact sheets, websites, databases, and similar materials selected from over 700 organizations for a professional audience. Materials selected are from non-commercial publishing [sources](#) and supplement disaster-related resources from [PubMed](#) (biomedical journal literature) and [MedlinePlus](#) (health information for the public). [More...](#)

Guidelines on how to search *Disaster Lit* and how to view and print search results can be found in the [Search Guide](#).

**Find...**

- ▶ [Disaster Research Data Collection Tools](#)
- ▶ [Online Courses and Webinars \(free\)](#)
- ▶ [Resources on Children and Disasters](#)
- ▶ [Resources on Ebola](#)

**New Resources**

- ▶ [Crisis Standards of Care: Public Health Ethics in Light of Evolving Mandates](#)
- ▶ [More ...](#)

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## Resource Guide for Disaster Medicine and Public Health

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hurricane AND flood

Search

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### Refine Your Results

#### Source

- ☐ American Public Health Association (1)
- ☐ Association of Occupational and Environmental Clinics, Pediatric Environmental Health Specialty Units (1)
- ☐ Centers for Disease Control and Prevention (3)

#### Publication Type

- ☐ Factsheet (1)
- ☐ Guideline/Assessment Tool (22)
- ☐ Instructional/Training Material (7)
- ☐ Report (25)
- ☐ Web Page (5)
- ☐ Web Site (7)

#### Publication Year

- ☐ 2016 (12)
- ☐ 2015 (4)
- ☐ 2014 (4)
- ☐ 2013 (5)
- ☐ 2012 (6)

Displaying records 1 - 10 of 67

Page **1** of 7

Results/page: **10**

Sort

**Newest First**

[Expand all](#)

[Collapse all](#)

[First](#) [Previous](#) [Next](#) [Last](#)

### 1. [Humanitarian Capacity-Building in Mozambique: Improving Living and Health Conditions in Zambézia](#)

**Source:** Oxfam GB

**Date Published:** 11/15/2016

**Format:** PDF (9 pages)

**Annotation:** This nine-page report provides information about humanitarian capacity-building in Mozambique, the third most exposed African country to the risks of disaster, particularly floods, cyclones, and drought. It is one of the world's worst affected countries in terms of climate change, resulting in high levels of poverty and vulnerability, and major impacts on natural resources and physical infrastructures. The report discusses the work of CECOHAS, a local partner in Zambézia Province that specializes in issues that include hygiene, water, and sanitation. [\[less\]](#)

**URL:** <http://policy-practice.oxfam.org.uk/publications/humanitarian-capacity-building-in-mozambique-improving-living-and-health-condit-620150>

**Authors:** Amaral, Marcos Do

**Type:** Report

**Access Notes:** Direct link to document: <http://oxfamilibrary.openrepository.com/oxfam/bitstream/10546/620150/1/cs-humanitarian-capacity-building-mozambique-151116-en.pdf>

**ID:** 14053. From [Disaster Lit](#)®, a database of the U.S. National Library of Medicine.

### 2. [Hurricane Matthew: Floods and Loss of Crops Raise Food Security Concerns for Over a Million People in Haiti](#)

**Source:** Food and Agriculture Organization of the United Nations (FAO)

**Date Published:** 10/24/2016

**Format:** PDF (8 pages)

**Annotation:** This eight-page document details the impact of Hurricane Matthew on four



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hurricane AND flood

Search

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- Search features
  - Stemming
  - Boolean AND, OR, NOT
  - Filters
- Content
  - Nearly 12,000 records

# Sample Resources from Disaster Lit Search

The screenshot displays the Oxfam Policy & Practice website. At the top, the Oxfam logo and navigation links for 'Our websites: Oxfam GB | Policy & Practice | Teachers' are visible. A search bar is present with 'Policy & Practice' selected. Below the navigation bar, a menu highlights 'Publications'. The breadcrumb trail shows the path: Home > Publications > What Practices Are Used to Identify and Prioritize Vulnerable Populations Affected... The left sidebar contains a 'Search for publications' box, an RSS feed subscription link, and an 'Email updates' sign-up section. The main content area features the title 'What Practices Are Used to Identify and Prioritize Vulnerable Populations Affected by Urban Humanitarian Emergencies?' with a 'Look inside' button and a thumbnail of the report cover. The cover text reads: 'WHAT PRACTICES ARE USED TO IDENTIFY AND PRIORITIZE VULNERABLE POPULATIONS AFFECTED BY URBAN HUMANITARIAN EMERGENCIES?'. Below the thumbnail, it states '50 pages'. The 'Authors' section lists: Patel, Ronak B., King, Jami, Phelps, Laura, Sanderson, David. The 'Publication date' is 17 Feb 2017. The 'ISBN' is 978-0-85598-874-6. The 'Publisher' is Oxfam, Feinstein International Center, UKAID. The 'Series' is Humanitarian Evidence Programme. The 'Keywords' are: Humanitarian practice, Conflict, Disasters, Vulnerable populations, Humanitarian Evidence Programme, Urban. Social sharing options for Facebook, Twitter, LinkedIn, and Email are provided. A 'Downloads' section lists two files: 'English paper (1MB)' and 'English summary (733kB)'. The footer of the website is not visible in this screenshot.

# Disaster Lit: More Examples

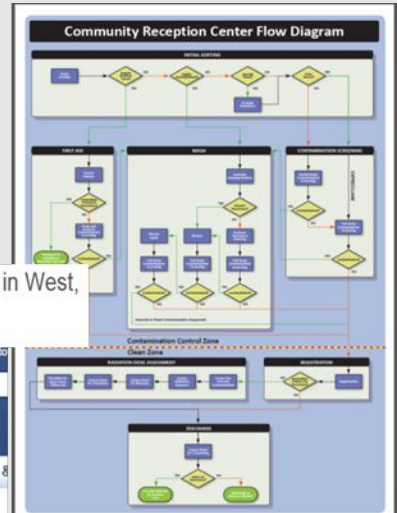
## Hearings

### Oversight Hearing - Public Health Emergency Medical Countermeasure Enterprise

Thursday, February 27, 2014 10:00 AM in 2358-C Rayburn  
Labor, Health and Human Services, Education, and Related Agencies

**NACCHO**  
National Association of Counties & City Health Officials  
The National Connection for Local Public Health

Webinar: Lessons from the Fertilizer Plant Explosion in West, Texas



**U.S. Food and Drug Administration**  
Protecting and Promoting Your Health

Home Food Drugs Medical Devices Radiation-Emitting Products Vaccines, Blood & Biologics Animal Health

## Medical Devices

Home Medical Devices Medical Device Safety Emergency Situations (Medical Devices)

### Medical Device Safety

Emergency Situations (Medical Devices)

Emergency Use Authorizations

Medical Device and Hurricane Emergencies

## Medical Device and Hurricane Emergencies

During natural disasters and other emergency situations, medical devices may be exposed to contaminants, or unusual levels of heat or humidity. The pages in the list below provide information about medical devices during and following emergency situations due to hurricanes.

### Useful Links

- Disposal of Contaminated Devices
- Reopening Dialysis Clinics after a Disaster
- FDA Offers Tips about Medical Devices



## Planning for Emergencies

A Guide for People With Chronic Kidney Disease



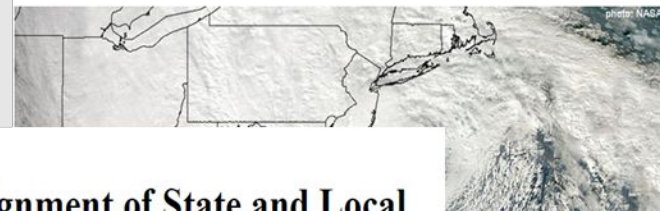
## HHS Disaster Human Services Concept of Operations



United States Environmental Protection Agency

LEARN THE ISSUES SCIENCE & TECHNOLOGY LAWS & REGULATIONS ABOUT EPA

## Hurricane Sandy Response and Recovery



Funding for New Jersey and New York

## Guidance for Temporary Reassignment of State and Local Personnel during a Public Health Emergency

Section 201 of the Pandemic and All-Hazards Preparedness Reauthorization Act of 2013 (PAHPRA), Public Law 113-5

For Official Use Only

March 27, 2014

### Resources for Residents

- Fact sheets on flooded buildings, mold cleanup, household hazardous waste, lead paint, NJ & NY hotlines, and more.
- Disinfecting drinking water

### Response Efforts

- As of May 3, 2013: Ongoing work

### Questions and Answers

News Releases, Data, and

## Pediatric Preparedness for Healthcare Coalitions

June 20, 2013

Resources mentioned in this presentation will be available at:  
[www.phe.gov/ABC](http://www.phe.gov/ABC)



National Kidney Foundation  
[www.kidney.org](http://www.kidney.org)



# PubMed

PubMed

hurricane AND flood

Advanced

Search

Help



## PubMed

PubMed comprises more than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

## PubMed COMMONS



### Featured comment - Jun 29

Reviewing guidelines: Journal Club @NephJC critiques clinical recommendations for preventing recurring kidney stones.

[1.usa.gov/1N6krTh](http://1.usa.gov/1N6krTh)

## Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#)



## PubMed Tools

[PubMed Mobile](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

## More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities \(API\)](#)

[LinkOut](#)



# PubMed – Search Results

The screenshot shows the PubMed search results page for the query "hurricanes AND floods". The search bar at the top contains the query, and the results are displayed in a list format. The "Search results" section is circled in red, showing "Items: 1 to 20 of 180". The results list includes four items, each with a checkbox, a title link, authors, journal information, PMID, and a "Free PMC Article" link. The right sidebar contains sections for "Titles with your search terms", "Find related data", "Search details", and "Recent Activity".

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

Search: hurricanes AND floods

Format: Summary Sort by: Most Recent

Send to: Filters: Manage Filters

**Search results**  
Items: 1 to 20 of 180

<< First < Prev Page 1 of 9 Next > Last >>

☐ [Economic Evaluations of the Health Impacts of Weather-Related Extreme Events: A Scoping Review.](#)  
1. Schmitt LH, Graham HM, White PC.  
Int J Environ Res Public Health. 2016 Nov 8;13(11). pii: E1105.  
PMID: 27834843 Free PMC Article  
[Similar articles](#)

☐ [Forecasting natural hazards, performance of scientists, ethics, and the need for transparency.](#)  
2. Guzzetti F.  
Toxicol Environ Chem. 2016 Oct 20;98(9):1043-1059.  
PMID: 27695154 Free PMC Article  
[Similar articles](#)

☐ [Environment, Global Climate Change, and Cardiopulmonary Health.](#)  
3. Bayram H, Bauer AK, Abdalati W, Carlsen C, Pinkerton KE, Thurston GD, Balmes JR, Takaro TK.  
Am J Respir Crit Care Med. 2016 Sep 21. [Epub ahead of print]  
PMID: 27654004  
[Similar articles](#)

☐ [Disasters as Learning Experiences or Disasters as Policy Opportunities? Examining Flood Insurance Purchases after Hurricanes.](#)  
4. Kousky C.  
Risk Anal. 2016 Aug 31. doi: 10.1111/risa.12646. [Epub ahead of print]  
PMID: 27576946  
[Similar articles](#)

**Titles with your search terms**  
Anatomy of a disaster drill. Hurricanes, tornados and floods, oh my! [Health Manag Technol. 2007]  
Hurricanes, floods and fires. As if natural disasters weren't enough, t [Healthc Inform. 2007]  
Mold prevention strategies and possible health effects in the aftern [MMWR Recomm Rep. 2006]  
See more...

**Find related data**  
Database: Select  
Find items

**Search details**  
("cyclonic storms"[MeSH Terms] OR ("cyclonic"[All Fields] AND "storms"[All Fields]) OR "cyclonic storms"[All Fields] OR "hurricanes"[All Fields] AND ("floods"[MeSH Terms] OR  
Search See more...

**Recent Activity**

# PubMed – Free Full Text

The screenshot displays the PubMed website interface. At the top, the search bar contains the query "hurricanes AND floods". The left sidebar shows various filters, with "Text availability" highlighted by a red circle. The main content area shows search results, with "Search results" and "Items: 1 to 20 of 180" highlighted by a red circle. The results list includes three articles, each with a "Free PMC Article" label. The first article is "Economic Evaluations of the Health Impacts of Weather-Related Extreme Events: A Scoping Review" by Schmitt LH, Graham HM, and White PC. The second article is "Forecasting natural hazards, performance of scientists, ethics, and the need for transparency" by Guzzetti F. The third article is "The Challenge of Timely, Responsive and Rigorous Ethics Review of Disaster Research: Views of Research Ethics Committee Members" by Hunt M, Tansey CM, Anderson J, Boulanger RF, Eckenwiler L, Pringle J, and Schwartz L.

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

Search: hurricanes AND floods

Format: Summary Sort by: Most Recent

Search results  
Items: 1 to 20 of 180

Text availability  
Abstract  
Free full text  
Full text

1. [Economic Evaluations of the Health Impacts of Weather-Related Extreme Events: A Scoping Review](#).  
Schmitt LH, Graham HM, White PC.

Titles with your search terms  
Anatomy of a disaster drill. Hurricanes, tornados and floods, oh my! [Health Manag Technol. 2007]  
Hurricanes, floods and fires. As if natural disasters weren't enough, t [Healthc Inform. 2007]  
Mold prevention strategies and possible health

Article types  
Clinical Trial  
Review  
Customize ...

Publication dates  
5 years  
10 years  
Custom range

Species  
Humans  
Other Animals

Clear all  
Show additional filters

Format: Summary Sort by: Most Recent

Search results  
Items: 1 to 20 of 55

Filters activated: Free full text. [Clear all](#) to show 180 items.

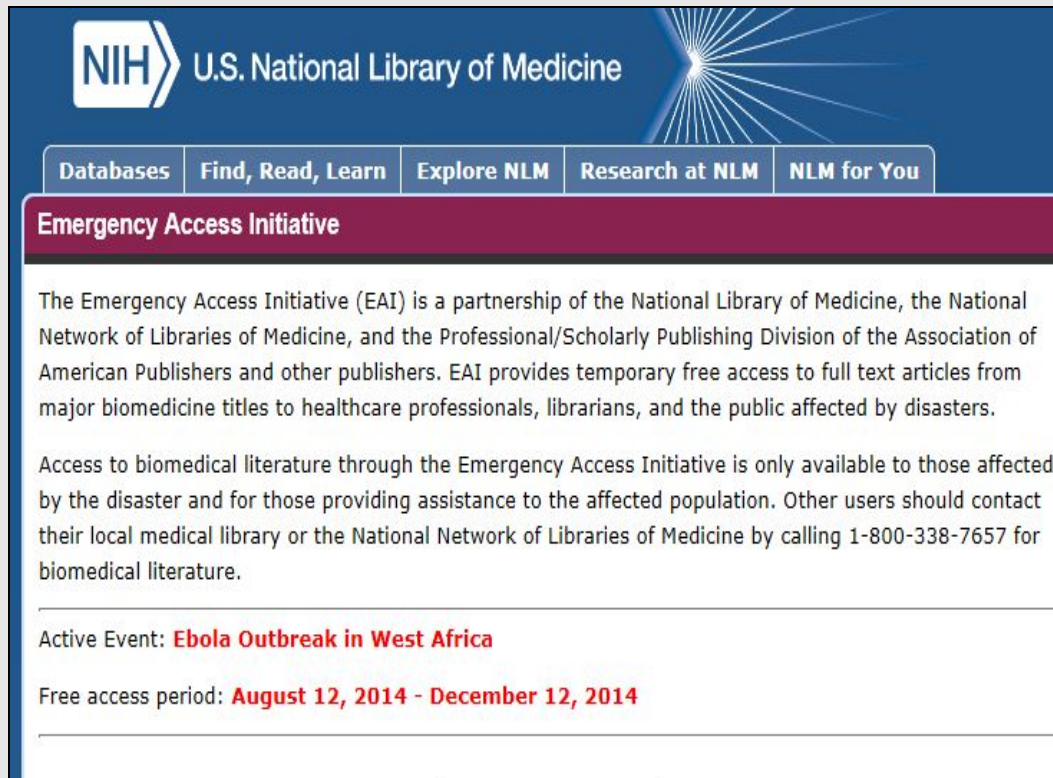
1. [Economic Evaluations of the Health Impacts of Weather-Related Extreme Events: A Scoping Review](#).  
Schmitt LH, Graham HM, White PC.  
Int J Environ Res Public Health. 2016 Nov 8;13(11). pii: E1105.  
PMID: 27834843 Free PMC Article  
[Similar articles](#)

2. [Forecasting natural hazards, performance of scientists, ethics, and the need for transparency](#).  
Guzzetti F.  
Toxicol Environ Chem. 2016 Oct 20;98(9):1043-1059.  
PMID: 27695154 Free PMC Article  
[Similar articles](#)

3. [The Challenge of Timely, Responsive and Rigorous Ethics Review of Disaster Research: Views of Research Ethics Committee Members](#).  
Hunt M, Tansey CM, Anderson J, Boulanger RF, Eckenwiler L, Pringle J, Schwartz L.  
PLoS One. 2016 Jun 21;11(6):e0157142. doi: 10.1371/journal.pone.0157142.  
PMID: 27327165 Free PMC Article

# Emergency Access Initiative (EAI)

<http://eai.nlm.nih.gov>



The screenshot shows the NIH Emergency Access Initiative website. At the top is the NIH logo and the text "U.S. National Library of Medicine". Below this is a navigation bar with links: "Databases", "Find, Read, Learn", "Explore NLM", "Research at NLM", and "NLM for You". The main heading is "Emergency Access Initiative". The text below explains that the EAI is a partnership between the National Library of Medicine, the National Network of Libraries of Medicine, and the Professional/Scholarly Publishing Division of the Association of American Publishers and other publishers. It provides temporary free access to full text articles from major biomedicine titles to healthcare professionals, librarians, and the public affected by disasters. It also states that access is only available to those affected by the disaster and for those providing assistance to the affected population. Other users should contact their local medical library or the National Network of Libraries of Medicine by calling 1-800-338-7657 for biomedical literature. At the bottom, it lists the "Active Event: Ebola Outbreak in West Africa" and the "Free access period: August 12, 2014 - December 12, 2014".

NIH U.S. National Library of Medicine

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You

## Emergency Access Initiative

The Emergency Access Initiative (EAI) is a partnership of the National Library of Medicine, the National Network of Libraries of Medicine, and the Professional/Scholarly Publishing Division of the Association of American Publishers and other publishers. EAI provides temporary free access to full text articles from major biomedicine titles to healthcare professionals, librarians, and the public affected by disasters.

Access to biomedical literature through the Emergency Access Initiative is only available to those affected by the disaster and for those providing assistance to the affected population. Other users should contact their local medical library or the National Network of Libraries of Medicine by calling 1-800-338-7657 for biomedical literature.

Active Event: **Ebola Outbreak in West Africa**

Free access period: **August 12, 2014 - December 12, 2014**

## Sample Journal Titles

- American journal of infection control
- Burns
- Depression and anxiety
- Environmental toxicology and pharmacology
- Journal of emergency medicine
- Journal of traumatic stress

## Sample Book Titles

- Merck manual of diagnosis and therapy
- Public health and prevention management
- Trauma
- Emergency medicine procedures
- Infectious diseases: the clinician's guide to diagnosis, treatment and prevention
- AHFS Drug Information



# Web Pages: Information Guides

## Coping with Disasters, Violence and Traumatic Events

Bookmark and share

- Overview
- Lead Organizations
- Mental Health and Emotional Response to Traumatic Events
- Intervention and Treatment
- Substance Abuse Issues
- Pre-Existing Behavioral Health and Mental Health Conditions
- For Emergency Responders, Healthcare Workers, and Volunteers
- For Professionals, Teachers, Parents and Others Working with Children
- For the Public
- Apps and Widgets
- Training Courses and Instructional Materials
- Multi-Language Resources
- Disclaimer

### Featured Sites

Disaster Distress Helpline  
Phone: 1-800-985-5990  
Text: "TalkWithUs" to 66746  
Substance Abuse and Mental Health Services Administration, U.S. Department of Health and Human Services

### Overview

- Coping with Traumatic Events  
National Institutes of Mental Health, National Institutes of Health
- Coping with Traumatic Events  
Substance Abuse and Mental Health Services Administration

Share

### Floods

- Disaster Distress Helpline  
Also in Spanish  
Phone: 1-800-985-5990  
Substance Abuse and Mental Health Services Administration
- Disaster Distress Helpline  
Centers for Disease Control and Prevention
- Mental Health and Emotional Response to Traumatic Events  
Health Issues and Floods
- Mental Health and Emotional Response to Traumatic Events  
Preparedness and Response
- Mental Health and Emotional Response to Traumatic Events  
Worker and Responder Safety
- Mental Health and Emotional Response to Traumatic Events  
Cleanup and Recovery
- Mental Health and Emotional Response to Traumatic Events  
Environmental Health and Sanitation
- Mental Health and Emotional Response to Traumatic Events  
Specific Populations
- Mental Health and Emotional Response to Traumatic Events  
Health Resources for the Public
- Mental Health and Emotional Response to Traumatic Events  
Coping with Disasters
- Mental Health and Emotional Response to Traumatic Events  
Animal Handling in Disasters
- Mental Health and Emotional Response to Traumatic Events  
Multi-language Resources
- Mental Health and Emotional Response to Traumatic Events  
Disclaimer

### Overview

- Flooding  
U.S. Environmental Protection Agency
- Floods  
Centers for Disease Control and Prevention, U.S. Department of Health and Human Services
- Floods and Flash Floods: Introduction  
National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce

Return to top

### Health Issues and Floods

- Buildings and Facilities Damaged by Flood Water: Health Risks  
Centers for Disease Control and Prevention, U.S. Department of Health and Human Services
- Flood Waters or Standing Waters: Health Risks  
Centers for Disease Control and Prevention, U.S. Department of Health and Human Services
- Flooding and Communicable Diseases Factsheet  
World Health Organization
- Floods in the WHO European Region: Health Effects and their Prevention  
World Health Organization

## Ebola Outbreak 2014 - 2015: Information Resources

Share

**\*\*This page is no longer being updated.\*\***

For recent publications, please see [Disaster Lit: The Resource Guide for Disaster Medicine and Public Health](#)

- [U.S. Federal Organizations](#)
- U.S. Organizations
- International Organizations
- National Government (non-U.S.) Web Sites
- Free Resources from Publishers for Medical Responders
- Biomedical Journal Literature and Reports
- Ebola Information Sources
- Diagnostic Testing for Ebola
- Ebola Treatment Drugs in Development & Trials
- Clinical Trials
- Situation Reports
- Training for Healthcare Workers
- Children and Ebola
- Multimedia Communication Resources
- Social Media
- Maps
- Health Resources for the Public
- Multi-Language Resources
- Disclaimer

### U.S. Federal Organizations

- Centers for Disease Control and Prevention
  - Ebola Hemorrhagic Fever
  - Also in Spanish.
  - 2014 Ebola Outbreak
  - Also available in French
  - Ebola (Ebola Virus Disease)
  - Also available in Spanish
  - Traveler's Health: Ebola
- CDC resources and documents
  - All CDC Ebola-related resources
  - Guidelines
  - Factsheets
  - Training Materials
  - Checklists

### Featured Sites

Disaster Distress Helpline  
1-800-985-5990  
Substance Abuse and Mental Health Services Administration, U.S. Department of Health and Human Services

For updates on Ebola info sources, subscribe to DISASTR-OUTREACH-

## Hurricanes and Typhoons

Share

- Overview
- Health Issues and Hurricanes
- Worker and Responder Safety
- Cleanup and Recovery
- Environmental Health, Water and Sanitation
- [Coping with Disasters](#)
- From Disaster Lit: the Resource Guide for Public Health and Disaster Medicine
- Health Resources for the Public
- Apps, Mobile Web Pages, and Widgets
- Topic Pages on Specific Hurricanes
- Animals in Disasters
- Multi-language Resources
- Disclaimer

### Related Links

Disaster Distress Helpline:  
Hurricanes  
Substance Abuse and Mental Health Services Administration, U.S. Department of Health and Human Services

Floods  
Disaster Information Management Research Center, U.S. National Library of Medicine, National Institutes of Health

### Keeping Current through Content Syndication

Embed the content of this page on your own Web page to get automatic updates and new resources. More about [Content Syndication](#).

### Overview

- Hurricanes  
Also available in [Spanish](#) and [Vietnamese](#).  
U.S. Environmental Protection Agency
- Hurricanes: Health and Safety  
U.S. Food and Drug Administration, U.S. Department of Health and Human Services
- Hurricanes and Other Tropical Storms  
Centers for Disease Control and Prevention, U.S. Department of Health and Human Services
- Hurricane Preparedness  
Office of the Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services
- National Hurricane Center  
National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce

Return to top

### Health Issues and Hurricanes

- Flooding and Communicable Diseases Fact Sheet  
World Health Organization

# Zika Virus Health Information Resource Guide

U.S. Department of Health & Human Services

## Disaster Information Management Research Center

IMPROVING ACCESS TO DISASTER HEALTH INFORMATION

SIS Home | About Us | Site Map & Search | SIS News | Contact Us

SIS Home > DIMRC Home > Disasters > Infectious Diseases > Zika Virus

Text size: [S](#) [M](#) [L](#) [XL](#)

[Share](#)

### Zika Virus Health Information Resource Guide

Disaster Lit® documents, PubMed articles, and many other resources are updated daily.  
Recent items are marked **New!**

- ▶ U.S. Federal Agencies
- ▶ U.S. Organizations
- ▶ International Organizations
- ▶ National Government (non-U.S.) Web Sites
- ▶ Pregnancy and Zika Virus
- ▶ Free Resources from Publishers for Medical Responders
- ▶ Biomedical Journal Literature and Reports
- ▶ Situation Reports
- ▶ Genome, Sequences, and Virus Variation
- ▶ Laboratory Detection and Diagnosis of Zika Virus
- ▶ Clinical Trials
- ▶ Research, Development and Funding
- ▶ Surveillance and Control of Mosquito Vectors
- ▶ Travel
- ▶ Maps
- ▶ Social Media
- ▶ Multi-Language Resources
- ▶ Health Resources for the Public
- ▶ Disclaimer

#### What's New

Documents about Zika added to Disaster Lit:

- Last 7 days
- Last 14 days

Articles about Zika added to PubMed:

- Last 7 days
- Last 14 days

#### Keeping Current through Content Syndication

Embed the content of this page on your own Web page to get automatic updates and new resources. More about Content Syndication.

#### U.S. Federal Agencies

- Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services
  - Zika Virus
  - Also in Spanish.
  - Morbidity and Mortality Weekly Report - Zika Reports
- National Institutes of Health (NIH), U.S. Department of Health and Human Services
  - Zika virus
- National Institute for Allergy and Infectious Diseases (NIAID), National Institutes of Health
  - Zika Virus
- U.S. Food and Drug Administration (FDA)
  - Zika Virus Response Updates from FDA
- Office of Human Services Emergency Preparedness and Response, Administration for Children & Families, U.S. Department of Health and Human Services
  - What Head Start or Child Care Programs Need to Know About Zika Virus
- History of Medicine Division, National Library of Medicine
  - Global Health Events: Updated series of Web documents on Ebola and Zika Virus

CDC Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

SEARCH

CDC A-Z INDEX

## Zika Virus

[f](#) [t](#) [+](#)

Language: English

### At-A-Glance

**Pregnant Women with Any Lab Evidence of Zika Virus Infection\***

- US States and DC: 510
- US Territories: 521

\*Source: Pregnancy Registries as of August 4, 2016

[More on Outcomes](#)

### Zika Virus Disease Cases Reported to ArboNET\*

- US States and DC: 1,962
- US Territories: 6,616

\*Source: ArboNET as of August 10, 2016

### Communication Resources

- Video Resources
- Print Resources
- Infographics
- Zika Communication Toolkits
- More >

### What's New

Contraceptive Use Among Nonpregnant and Postpartum Women in the Context of Zika Preparedness - United States

TUESDAY, AUGUST 02, 2016



**ZIKA VIRUS UPDATE**  
Zika Cases in Florida

**Zika Cases in Florida**

**ABOUT ZIKA**  
Overview of Zika and top questions about Zika answered...

**TRANSMISSION & RISKS**  
Transmitted to people primarily through the bite of an infected mosquito...

**SYMPTOMS, TESTING, & TREATMENT**  
Most common symptoms are fever, rash, joint pain, or red eyes...

**AREAS WITH ZIKA**  
Countries and territories with active Zika virus transmission...

**PREVENTION**  
No vaccine exists... Prevent Zika by protecting against mosquito bites...

**MOSQUITO CONTROL**  
Prevent mosquito bites, integrated mosquito management, potential range in US, aerial spraying...

# Special Populations and Disasters

<http://disasterinfo.nlm.nih.gov/dimrc/children.html>

<https://disasterinfo.nlm.nih.gov/dimrc/pregnantwomen.html>

## Health Resources on Children in Disasters and Emergencies



<http://disasterinfo.nlm.nih.gov/dimrc/children.html>





# Hazmat/CBRN Tools



- **WISER:** Wireless Information System for Emergency Responders <http://wiser.nlm.nih.gov>
  - System to assist first responders and first receivers in hazardous material incidents.



- **CHEMM:** Chemical Hazards Emergency Medical Management <http://chemm.nlm.nih.gov>
  - Guidance on planning, response and recovery related to chemical mass casualty incidents.

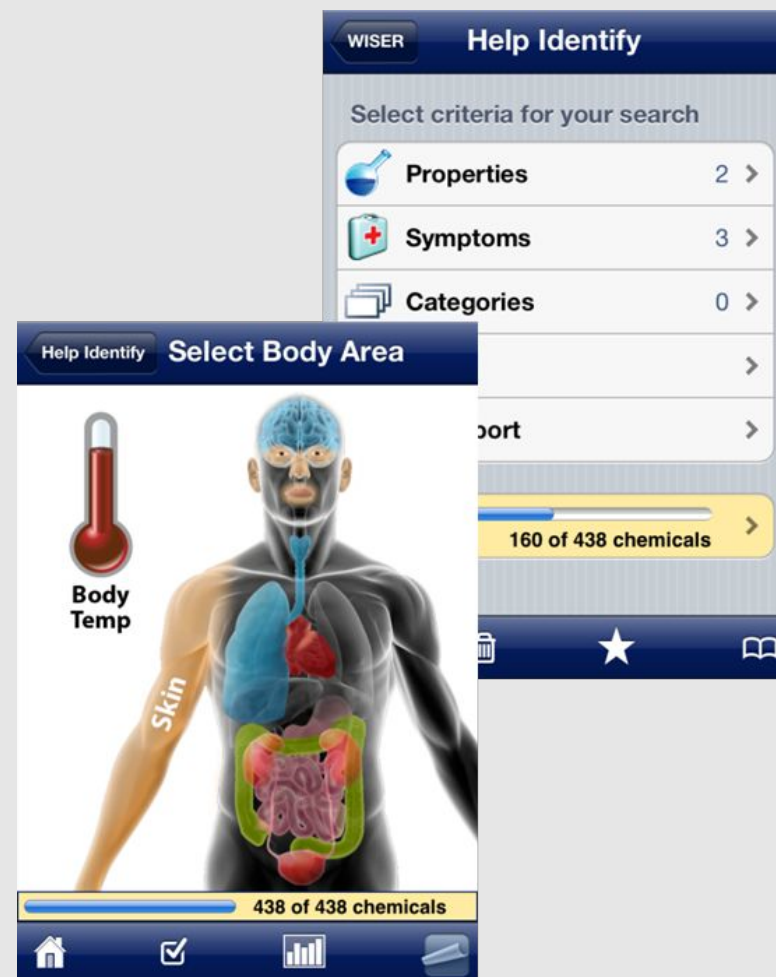


- **REMM:** Radiation Emergency Medical Management <http://www.remm.nlm.gov>
  - Guidance about clinical diagnosis and treatment of radiation injuries during radiological and nuclear emergencies.

# WISER

<http://wiser.nlm.nih.gov>

- Data on 400+ chemicals, 20+ radiologic agents, and CDC Category A biologic agents
- Tools and reference materials
- Triage algorithms, ERG 2012, WMD Response Guidebook
- Radiation procedure documents, Dose Estimator, Unit Converter and more



# CHEMM

<http://chemm.nlm.nih.gov>

- Tool for *mass casualty* chemical events
- Scope :
  - Training
  - Planning
  - Response during event





# REMM

<http://www.remm.nlm.gov>



- Radiation principles (e.g., exposure vs. contamination)
- Patient management algorithms
- Initial onsite activities
- Decontamination procedures
- Assess internal contamination
- Countermeasures

U.S. Department of Health & Human Services

# REMM

RADIATION  
EMERGENCY  
MEDICAL  
MANAGEMENT

Guidance on Diagnosis and Treatment for Healthcare Providers

• Understand Radiation  
• Plan Ahead  
• Practice Teamwork  
• Work Safely

Interactive Clinical Tools ▾ Diagnosis & Treatment ▾ Reference & Data ▾ **Overview ▾** Get REMM App Search...

### What Kind of Emergency?

- › Nuclear Detonation: Weapons, Improvised Nuclear Devices
- › Radiological Dispersal Devices, Dirty Bombs
- › Nuclear Power Plant/Reactor Incidents
- › Radiological Exposure Devices
- › Transportation Incidents

### Patient Management

- › Choose Appropriate Algorithm
- › Contamination
- › Exposure (Acute Radiation Syndrome)
- › Exposure + Contamination
- › Triage Guidelines
- › Hospital Orders Template

### Initial Incident Activities

- › Discovering an Incident
- › Describing an Incident
- › On-site Activities
- › Triage Guidelines
- › Transport Victims
- › Hospital Activities

### Management Modifiers

- › Radiation + Trauma
- › Burn Triage and Treatment
- › Mass Casualty
- › Psychological Issues
- › At-risk / Special Needs Populations

### Practical Guidance

- › Use of Blood Products
- › Population Monitoring
- › Decontamination Procedures
- › Follow-up Instructions
- › Management of the Deceased
- › Develop a Response Plan

More...

### Other Audiences

- › First Responders
- › Mental Health Professionals
- › Hospital Staff
- › Public Information Officers
- › Radiation Safety Officers
- › Planners
- › Trainers: Practices & Drills

More...

### REMM Multimedia Library

Dirty Bomb

Contamination

Exposure

Radiation Incidents Radiation Basics Exposure (ARS) Contamination Radiation Safety Triage & Transport All Videos

About REMM

Key Guidance Documents

Other Web Resources

# Typical Go-Bag



- Safety items
- Communications
- Hygiene
- Medical supplies
- Navigation devices
- Tools
- Food

# What about INFORMATION?

Why do you need information?

- Preparedness
- Decision making
- Situational awareness
- Informed response
- Recovery

Information you may need:

- Evidence-based public health information
- Maps
- Situation status
- Decision tools
- Alerts/News
- Social media/Connectivity
- Reference tools



# Disaster Apps: Digital Go-Bag

- Internet can be unreliable in emergencies
- Information portability
- Space saver; nearly unlimited capacity
- Information literally at your fingertips



<http://disasterinfo.nlm.nih.gov/dimrc/disasterapps.nlm>

# Disaster Apps and Mobile-Optimized Web Pages

Page adjusts for web, tablet or smartphone



**Disaster Information Management Research Center**  
IMPROVING ACCESS TO DISASTER HEALTH INFORMATION

National Library of Medicine  
National Institutes of Health  
SPECIALIZED INFORMATION SERVICES NLM

SIS Home | About Us | Site Map & Search | SIS News | Contact Us

SIS Home > DIMRC Home > Disaster Apps

Search This Site

Text size: S M L XL  
Bookmark and share

### Disaster Apps and Mobile Optimized Web Pages

Disaster Medicine Tools  
Other Disaster Resources  
Information about Hazardous Events, Disasters, and Disease Outbreaks  
Apps for Disasters in Libraries  
Other Apps and Tools  
Selection Guidelines for Non-National Library of Medicine Resources



Mobile connect to this page.



**Notes for using this Web page:**

The tools on this page are designed to provide mobile device users access to Web-based content. They are developed to run on specific mobile platforms, such as iOS (iPhone and iPad), Android, or BlackBerry.

- **Native or standalone apps** deliver content to mobile devices and do not require Internet connectivity to view and use the content.
- **Web Apps** link a mobile device user to content that requires Internet connectivity to access and use.
- **Mobile Web** is a link to a mobile optimized or mobile enhanced Web site, which is a reformatted version of a Web site that is easier to read on a mobile device.

### Disaster Medicine Tools

WISER	REMM
 By: National Library of Medicine	 By: National Library of Medicine
WISER (Wireless Information System for Emergency Responders) assists first responders in Hazmat incidents, with features including substance identification support, containment and suppression advice, and medical treatment information.	REMM (Radiation Emergency Medical Management) provides guidance about clinical diagnosis and treatment of radiation injuries during radiological and nuclear emergencies.
<a href="#">Install (iPhone/iPad)</a>	<a href="#">Install (iPhone/iPad)</a>
<a href="#">Install (Android)</a>	<a href="#">Install (Android)</a>
<a href="#">Install (Blackberry)</a>	<a href="#">Install (Blackberry)</a>
<a href="#">Mobile Web</a>	

ERG 2012	MedlinePlus
 By: National Library of Medicine and U.S. Department of Transportation	 By: National Library of Medicine
2012 Emergency Response Guidebook (ERG) from the PHMSA (U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration) provides first responders with a go-to resource to help deal with hazmat accidents during the critical first 30 minutes.	The MedlinePlus mobile enhanced Web page provides access to consumer-oriented health information on disaster topics in English and Spanish.
<a href="#">Install (iPhone/iPad)</a>	<a href="#">Mobile Web</a>
<a href="#">Install (Android)</a>	

HHS > NIH > National Library of Medicine

**Disaster Information Management Research Center**

NLM

Navigation






SIS Home > DIMRC Home > Disaster Apps

Search This Site

### Disaster Apps and Mobile Optimized Web Pages

Disaster Medicine Tools  
Other Disaster Resources  
Information about Hazardous Events, Disasters, and Disease Outbreaks  
Apps for Disasters in Libraries

### Disaster Medicine Tools

 By: National Library of Medicine	WISER (Wireless Information System for Emergency Responders) assists first responders in Hazmat...
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# App/Web Page Selection Criteria

- Authoritative and credible source
- Provides useful, current content
- No point of view
- Ease of use
- Free (with some exceptions)



# Points About Apps

- **Type of app**
  - Stand-alone/Native
  - Mobile-optimized Website
  - Hybrid
- **Size/speed of the app**
  - space issues
  - effects on battery life

# MedlinePlus

<https://www.medlineplus.gov/>

- Consumer-oriented materials
- Carefully selected links
- 17+ topic pages

 **MedlinePlus**  
Trusted Health Information for You

A service of the U.S. National Library of Medicine  
NIH National Institutes of Health

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## Disaster Preparation and Recovery

Preparing for a disaster can reduce the fear, anxiety and losses that disasters cause. A disaster can be a natural disaster, like a [hurricane](#), [tornado](#), [flood](#) or [earthquake](#). It might also be man-made, like a [bioterrorist attack](#) or [chemical spill](#). You should know the risks and danger signs of different types of disasters. You should also have a disaster plan. Be ready to evacuate your home, and know how to treat basic medical problems. Make sure you have the insurance you need, including special types, like flood insurance.

No matter what kind of disaster you experience, it causes [emotional distress](#). After a disaster, recovery can take time. Stay connected to your family and friends during this period.

Federal Emergency Management Agency

[Get Disaster Preparation and Recovery updates by email](#)  [GO](#) [What's this?](#)

**Start Here**

- [Are You Ready? An In-Depth Guide to Citizen Preparedness](#) (Department of Homeland Security) - PDF  
Also available in [Spanish](#)
- [Recovering After a Disaster or Emergency](#) (American Red Cross)

Basics	Learn More	Multimedia & Cool Tools
<a href="#">Overviews</a> <a href="#">Latest News</a>	<a href="#">Specific Conditions</a> <a href="#">Related Issues</a>	<a href="#">Videos</a> <a href="#">Games</a>
Research	Reference Shelf	For You

  
FEMA

### Related Topics

- [Biodefense and Bioterrorism](#)
- [Chemical Emergencies](#)
- [Coping with Disasters](#)
- [Earthquakes](#)
- [Fires](#)
- [First Aid](#)
- [Floods](#)
- [Heat Illness](#)
- [Hurricanes](#)
- [Post-Traumatic Stress Disorder](#)
- [Radiation Emergencies](#)
- [Tornadoes](#)
- [Tsunamis](#)
- [Volcanoes](#)
- [Winter Weather Emergencies](#)
- [Disasters](#)


### Languages

 **Disaster Health Information**

# HealthReach

<http://healthreach.nlm.nih.gov/>

Health  
information  
in many  
languages,  
for patients  
& providers






Home Patient Materials Provider Information A-Z Index

Search

Patient Materials Provider Information Search All

Japanese All Formats



**Patient Materials**

Find culturally relevant information in multiple languages and formats for health conditions and wellness.

Home Patient Materials Provider Information A-Z Index

**Featured Resources**


**Zika Virus Resources**

[Zika Virus - Patient Materials](#)

Find reliable multilingual consumer information for pregnant women, women trying to get pregnant, and women with children (CDC), the Pan American Health Organization (PAHO), and the U.S. Department of Health and Human Services (HHS).

[Zika Virus - Provider Information](#)

Healthcare professionals and community organizations can use this information to help patients and the community understand the Zika virus and technical material, epidemic



Home Patient Materials Provider Information A-Z Index

Back to Search Results

## Helping Your Child After a Natural Disaster

**Resource Properties**

**Abstract:**  
This three-page booklet educates parents and caregivers about how to help a child after a natural disaster. It discusses ways adults can provide support for children, and help them feel safe and secure, such as sticking to daily routines, being a good listener, understanding the child's behavior, helping the child express their thoughts and feelings, and connecting with community support.

**Author(s):** Brigham Young University

**Medical Review:** Yes  
*The English language resource was created or reviewed by a medical professional for quality and accuracy.*

**Development Method:** Translation from English text

**Translation Review:** Community review  
*This translation was evaluated by a representative or group from the community for accuracy and cultural relevance.*

**Country:** N/A

**Population:** N/A

**Keywords:** Caregivers, Child, Disaster preparedness, Emotions, Parents

**Copyright:** In the Public Domain

**Date Last Reviewed:** 12/1/2013

**Reviewed By:** Author/Agency

**Access Resource**

Language	Document	Video	Audio
English	Open (PDF, 2.14 MB)		
Chinese, Traditional (Cantonese dialect)	Open (PDF, 1.59 MB) Split Screen (PDF, 2.59 MB)		
Croatian	Open (PDF, 1.25 MB) Split Screen (PDF, 2.53 MB)		
Hmong	Open (PDF, 2.41 MB) Split Screen (PDF, 2.41 MB)		
Japanese	Open (PDF, 2.51 MB) Split Screen (PDF, 2.51 MB)		
Korean	Open (PDF, 2.41 MB) Split Screen (PDF, 2.41 MB)		
Kreyol (Haitian Creole)	Open (PDF, 1.37 MB) Split Screen (PDF, 2.37 MB)		

Title	Patient Info	Provider Info	Format	Translation Review	Medical Review
Helping Your Child After a Natural Disaster	✓		Document	Community review	✓
Protecting Your Child from Suicide	✓		Document	Community review	✓
Choose MyPlate: 10 Tips to a Great Plate	✓		Document	Community review	✓
MyPlate Icon	✓		Document	Community review	✓



# NLM Disaster Information Specialist Program

<https://disasterinfo.nlm.nih.gov/dimrc/disasterinfospecialist.html>

*\*Support for librarians providing disaster information outreach to their communities.\**

- Identify roles for librarians in all phases of disaster work: preparedness, mitigation, response and recovery.
- Encourage librarians to participate by building a community of practice and a culture of preparedness.

# Working with Disaster Workforce

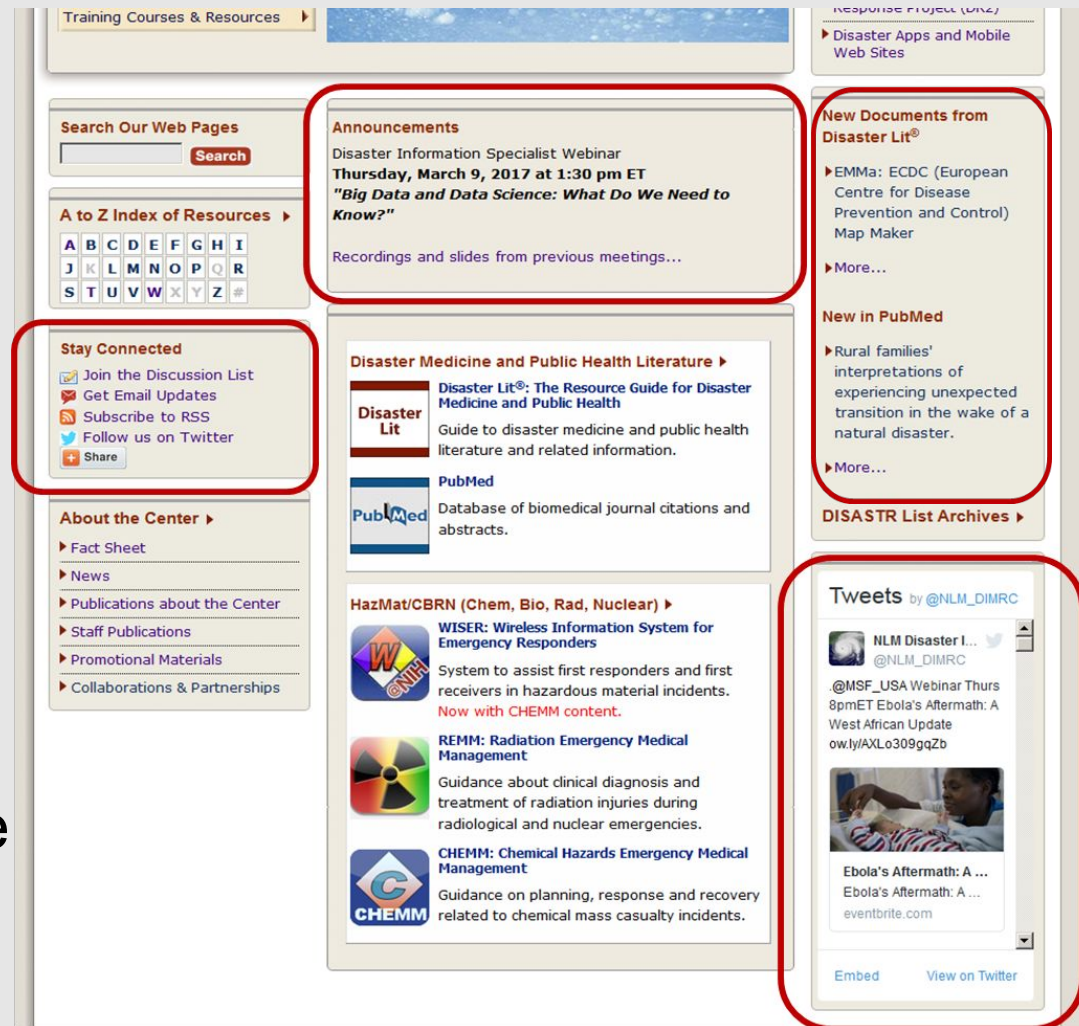


- Supporting Incident Command Centers
- Participating in call centers taking questions from the public
- Developing FAQs for local emergency preparedness and response and making them easy to locate
- Monitoring social media and authenticating information for situational awareness
- Aggregating and compiling information to support public health decision-making



# Stay Connected and Informed

- Monitor our home page
- Twitter - @NLM\_DIMRC
- Email updates
- RSS feeds
- DISASTR-OUTREACH-LIB listserv, 1400+ subscribers
- Monthly webinars that are open to all





# Content Syndication

Embed our  
content and  
keep up to  
date with no  
effort

<https://digitalmedia.hhs.gov>

The screenshot shows the website of the Disaster Information Management Research Center (DIMRC), part of the U.S. Department of Health & Human Services. The header includes the department name and the center's title, "Disaster Information Management Research Center," with the tagline "IMPROVING ACCESS TO DISASTER HEALTH INFORMATION." Navigation links include "SIS Home," "About Us," "Site Map & Search," "SIS News," and "Contact Us." A search bar is labeled "Search This Site." The breadcrumb trail reads "SIS Home > DIMRC Home > Disasters > Weather and Storms > Floods." The main section is titled "Floods" and contains a list of links: Overview, Health Issues and Floods, Preparedness and Response, Worker and Responder Safety, Cleanup and Recovery, Environmental Health and Sanitation, Specific Populations, Health Resources for the Public, Coping with Disasters, Animal Handling in Disasters, Multi-language Resources, and Disclaimer. To the right, under "Documents about floods in Disaster Lit®:", there are links for Floods, Mold, Flood and clean-up issues, Flood and recovery, and Flood and sanitation. A red circle highlights a section titled "Keeping Current through Content Syndication" which states: "Embed the content of this page on your own Web page to get automatic updates and new resources. More about Content Syndication."

U.S. Department of Health & Human Services

**Disaster Information Management Research Center**  
IMPROVING ACCESS TO DISASTER HEALTH INFORMATION

SIS Home | About Us | Site Map & Search | SIS News | Contact Us

Search This Site

SIS Home > DIMRC Home > Disasters > Weather and Storms > Floods

Text size: [S](#) [M](#) [L](#) [XL](#)

[+ Share](#)

**Floods**

- ▶ Overview
- ▶ Health Issues and Floods
- ▶ Preparedness and Response
- ▶ Worker and Responder Safety
- ▶ Cleanup and Recovery
- ▶ Environmental Health and Sanitation
- ▶ Specific Populations
- ▶ Health Resources for the Public
- ▶ Coping with Disasters
- ▶ Animal Handling in Disasters
- ▶ Multi-language Resources
- ▶ Disclaimer

**Documents about floods in Disaster Lit®:**

- [Floods](#)
- [Mold](#)
- [Flood and clean-up issues](#)
- [Flood and recovery](#)
- [Flood and sanitation](#)

**Keeping Current through Content Syndication**  
Embed the content of this page on your own Web page to get automatic updates and new resources. More about [Content Syndication](#).

**Overview**

- Flooding

# Contact Information

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Specialized Information Services

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