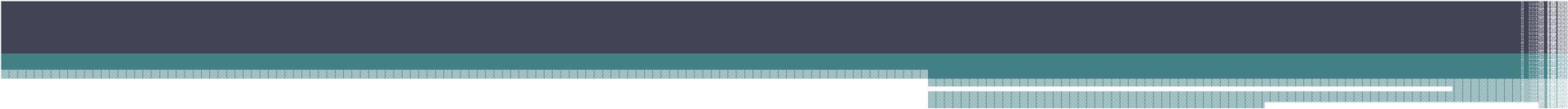


# Information Resources for Disaster Preparedness

Emily Molanphy

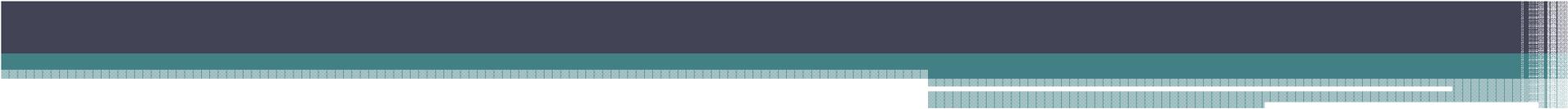
NN/LM MAR

April 23, 2009



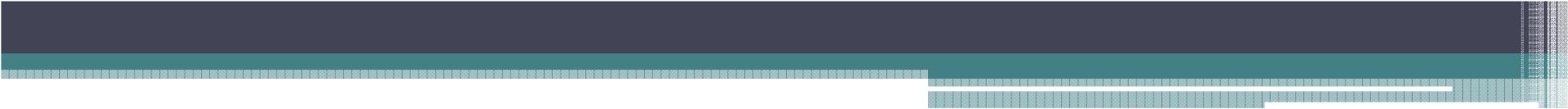
# Introduction

- Medical librarians
- Anticipate/prepare for user needs
- Websites, databases, and mobile apps
- Slides include URLs



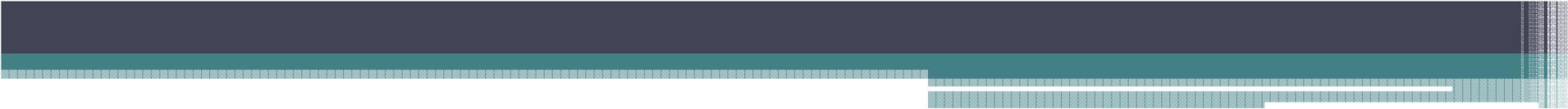
# Parameters

- What kinds of disasters?
  - Natural or man-made
  - Sudden or predictable
- Medical, logistical, communication needs
- Identify and respond to new situations
- Risks for your institution



## Parameters 2

- Formats that work
- Highlights
- Not about: disaster planning at your library or for individuals



# Website overview

# FEMA

- Main page: <http://www.fema.gov>
- Currently being renovated; may change

The screenshot shows the FEMA website homepage with the following elements:

- Header:** FEMA logo, "U.S. DEPARTMENT OF HOMELAND SECURITY", and an "Advanced Search" box with a "Go" button.
- Navigation Menu:** "Disaster Information", "Plan Ahead", "Apply for Assistance", "Recover & Rebuild", and "About Us".
- Headlines:** "President Announces Major Disaster Declaration For Minnesota".
- Customer Gateways:** A sidebar menu with categories: "Emergency Personnel", "Government", "Individuals", "Kids", "Press Resources", "Private Sector", "Professionals", "Español", and "More Audiences...".
- Quick Links:** A sidebar menu with categories: "NIMS", "Training", "Jobs", "Forms & Publications", "Grants", "Travel Trailers", and "Regional Offices".
- Main Content Area:**
  - A featured article: "DHS Announces Nearly \$970 Million in Preparedness Grants" with a "Read More »" link.
  - A "Disaster Declaration" section with a link: "What does this mean for Minnesota?".
  - A "Disaster Assistance for Individuals & Families" section with buttons for "Apply for Assistance" and "Inscribase para solicitar asistencia".
  - A "Headlines and Information" section listing various news items like "Special Community Disaster Loans Open for Public Comment (PDF)", "Final Rule: Technical, Organizational and Conforming Amendments", "Spring Flooding", "National Disaster Housing Strategy", "National Level Exercise 09", and "FEMA To Dispose Of Damaged, Uninhabitable Temporary Housing Units".
  - A "Types of Disasters" section listing: Chemical, Nuclear, Dam Failure, Terrorism, Earthquake, Thunderstorm, Fire, Tornado, Flood, Tsunami, Haz. Material, Volcano, Heat, Wildfire, Hurricane, Winter Storm, and Landslide.
- Footer:** "News", "Multimedia", "Photographs", "Feeds", and "Email Updates" links.

http://www.fema.gov/library/index.jsp

Search Criteria	
<b>Keywords</b> ?	<input type="text"/>
<b>Subject</b> ? <a href="#">Need help determining Subject?</a>	<input type="text"/>
<b>Audience Category</b> ? <a href="#">Need help determining Audience Category?</a>	<input type="text"/>
<b>Hazard Type</b> ? <a href="#">Need help determining Hazard Type?</a>	<input type="text" value="Not Hazard Related"/> Chemical/Biological Coastal Storm Dam/Levee Break Drought Earthquake Emergency Planning and Security Extreme Temperatures Fire
<b>Language</b> ?	<input type="text"/>
<b>Resource Type</b> ?	<input type="text"/>
<b>Program</b> ?	<input type="text"/>
<b>Publication Date</b> ?	From: <input type="text"/> To: <input type="text"/> (MM/YYYY)
<b>Accessible Format Available</b> ?	<input type="checkbox"/>
<b>Free Resources Only</b> ?	<input type="checkbox"/>
<b>Perform AND Search</b> ?	<input type="checkbox"/>

Sample search: KW children + risk assessment + educational institutes + virus threat

# Ready.gov



**Ready**  
Prepare. Plan. Stay Informed.

Click on the banner to go to your area of interest.

[Prepare, Plan and Stay Informed](#)

[Be Prepared With New Online Emergency Planning Tools](#)

01 02 03 +

**Ready America**

**Ready Business**

**Ready Kids**

**NEM BLOG** Visit *Ready's* National Preparedness Month Blog!

**SIGN UP** Get e-mail updates when this information changes

http://www.disasterassistance.gov

The screenshot shows the DisasterAssistance.gov website. At the top left is the logo "DisasterAssistance.gov" with the tagline "ACCESS TO DISASTER HELP AND RESOURCES". To the right is a search bar with a magnifying glass icon, a "Search" button, and links for "Advanced Search" and "Search Tips". Below the logo is a navigation menu with tabs for "HOME", "DISASTER ASSISTANCE", "LOCAL RESOURCES", "FOREIGN DISASTERS", "ABOUT US", and "HELP". Under the "DISASTER ASSISTANCE" tab, there are filters for "Take Questionnaire", "Category", and "Federal Agency". The main content area is titled "Locate and Apply for Disaster Relief" and features two options: "Take Pre-Screening Questionnaire" (with a "Take Questionnaire" button) and "Apply for Assistance Immediately" (with a "Start Registration" button). A red star with "OR" is between the two options. At the bottom, there is a "Check Your Application Status" button and a "Login" button. The background of the main content area shows a damaged house on the left and a new house under construction on the right.

DisasterAssistance.gov  
ACCESS TO DISASTER HELP AND RESOURCES

Search

Advanced Search  
Search Tips

HOME DISASTER ASSISTANCE LOCAL RESOURCES FOREIGN DISASTERS ABOUT US HELP

Take Questionnaire | Category | Federal Agency

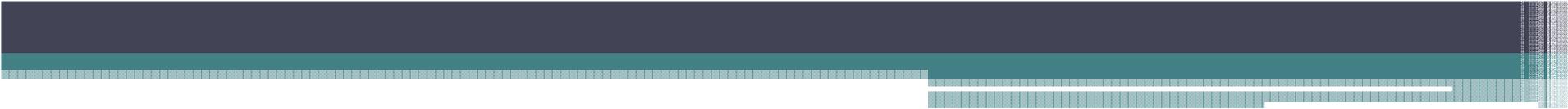
**Locate and Apply for Disaster Relief**

**Take Pre-Screening Questionnaire**  
Take an anonymous questionnaire to obtain and apply for the most accurate list of disaster forms of assistance for which you may be eligible.  
**Take Questionnaire**

**Apply for Assistance Immediately**  
Complete an online application, create an account, and apply for disaster assistance  
**Start Registration**

OR

**Check Your Application Status** **Login**



# CDC

- Wide range of public health information
- Emergency Preparedness and Response is a major section of the site
- Clear separation of content for professionals vs. the general public
- Example protocol: Mass casualties > Blast injuries > Lung injury: prehospital care
- Recent Outbreaks & Incidents > RSS and Twitter

# http://www.cdc.gov/



Centers for Disease Control and Prevention  
Your Online Source for Credible Health Information

A-Z Index [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) <#>

## Hemophilia Day

Learn How Treatment Centers Save Lives **GO»**

- CDC-TV
- Hemophilia Day**
- Be Water Wise
- Detect Autism
- Teen Drivers

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

- [Bookmark and share](#)
- [Get email updates](#)
- [Subscribe to RSS](#)
- [Listen to audio/podcast](#)

[CDC en Español](#)

**Every 9½ minutes**  
someone  
in the US  
is infected  
with **HIV**

**ACT**  
against  
**AIDS**

### Health & Safety Topics

**Diseases & Conditions**  
ADHD, Birth Defects, Cancer,  
Diabetes, Fetal Alcohol Syndrome, Flu,  
Hepatitis, HIV/AIDS, STDs...

**Emergency Preparedness & Response**  
Bioterrorism, Chemical & Radiation  
Emergencies, Severe Weather...

**Environmental Health**  
Air Pollution, Carbon Monoxide, Lead,  
Mold, Water Quality, Climate  
Change...

**Life Stages & Populations**  
Infant & Child, Men, Minorities,  
Pregnancy, Seniors, Women...

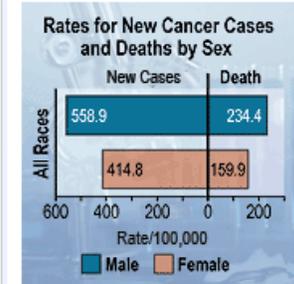
**Healthy Living**  
Bone Health, Physical Activity,  
Immunizations, Genetics, Sexual  
Health, Smoking Prevention...

**Injury, Violence & Safety**  
Brain Injury, Child Abuse, Falls, Fires,  
Food Safety, Poisoning, Suicide,  
Youth Violence...

**Travelers' Health**  
Destinations, Outbreaks, Travel  
Vaccinations, Yellow Book...

**Workplace Safety & Health**  
Asbestos, Chemical Safety,  
Construction, Mining, Office  
Environments, Respirators...

### Data & Statistics



[More Data & Statistics »](#)

### Publications

- [Emerging Infectious Diseases \(EID\)](#)
- [Morbidity and Mortality](#)

### News & Events



**CDC Volunteers Aid Bhutanese Refugees**  
Initial request has evolved into major volunteer initiative

- [All CDC In The News »](#)
- [Press Room »](#)
- [Events »](#)

# http://emergency.cdc.gov/

CDC Home



Centers for Disease Control and Prevention  
Your Online Source for Credible Health Information.

SEARCH

A-Z Index [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) <#>

## Emergency Preparedness and Response

This site is intended to increase the nation's ability to prepare for and respond to public health emergencies.

[ADDIOCK]

**Tornado Outbreak**  
Know what to do to protect yourself. **GO»**

- Tornadoes** »
- Floods**
- Wildfires**

Emergency Website A-Z: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

### Specific Hazards



**Bioterrorism**  
Anthrax, plague, smallpox...



**Mass Casualties**  
Explosions, blasts, injuries...



**Chemical Emergencies**  
Ricin, chlorine, nerve agents...



**Natural Disasters & Severe Weather**  
Hurricanes, wildfires, floods...



**Radiation Emergencies**  
Dirty bombs, nuclear blasts...



**Recent Outbreaks & Incidents**  
*Salmonella*, melamine...

### What CDC Is Doing



Learn about CDC activities that help strengthen national, state, and local efforts to prevent or respond to emergencies.

More »

### What You Can Do

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

- Email page
- Print page
- Bookmark and share
- Subscribe to RSS

### View page in

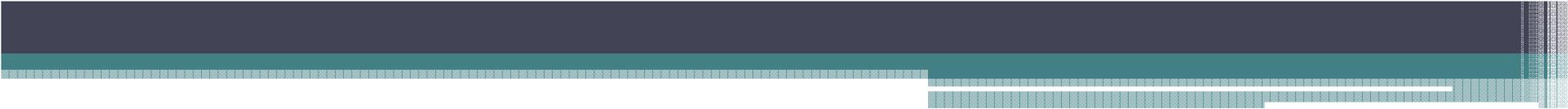
- 中文 (Chinese)
- Tagalog (Filipino)
- Français (French)
- Deutsch (German)
- Kreyol (Haitian Creole)
- Italiano (Italian)
- 한국어 (Korean)
- Português (Portuguese)
- Русский (Russian)
- Español (Spanish)
- Tiếng Việt (Vietnamese)

Get email updates

To receive email updates about this

# NLM: Chemical and Biological Warfare

- <http://disaster.nlm.nih.gov/enviro/biologicalwarfare.html>
- <http://disaster.nlm.nih.gov/enviro/chemicalwarfare.html>
- Include definitions, links to planning guides, one-click PubMed and TOXNET searches
- Both linked from this page, where NLM creates pages for emerging situations:  
<http://disaster.nlm.nih.gov/enviro/envirohealthlinks.html>



# Isolation and Quarantine Toolkit

- <http://www.isolationandquarantine.com/>
- Subject with many aspects: medical, legal, and social
- Example of the kind of resource you can point your users to if you become involved in their research

# Toolkit homepage

**Public Health**  
Seattle & King County

**Planning and Managing for  
Isolation & Quarantine**  
ADVANCED PRACTICE TOOLKIT

- USER'S GUIDE
- PLANNING PROCESS
- I & Q RESPONSE
- COMMUNITY PARTNERS
- FACILITIES OPERATIONS
- LEGAL & LAW
- RISK COMMUNICATION
- TRAINING & EXERCISES
- VULNERABLE POPULATIONS
- EVALUATION
- ACKNOWLEDGEMENTS

**I & Q RESPONSE  
WEB TOOLKIT**

In the absence of rapid and definitive diagnostic tests, vaccines, or cures, isolation and quarantine remain Public Health's best strategy against the spread of mass illness. [Public Health - Seattle & King County \(Public Health\)](#) is an Advanced Practice Center for Emergency Preparedness and established this Planning for Isolation & Quarantine Response Web Toolkit...

[more »](#)

**ISOLATION & QUARANTINE  
NOW AND THEN**

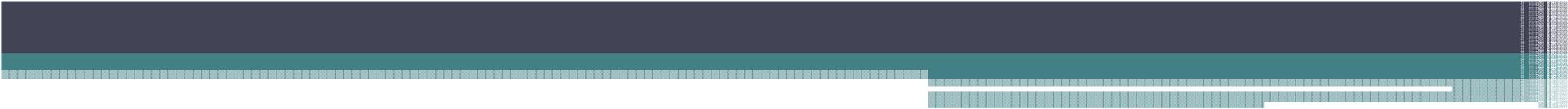
Both isolation and quarantine are common and valuable Public Health tools routinely used by Public Health authorities to control the spread of communicable diseases. Historically for the large-scale epidemics of the 19th and first half of the 20th centuries but more recently as an individual strategy that is carried out in a quiet, small-scale manner, out of public view.

[more »](#)

**APC**  
Advanced Practice Centers

## And also check out...

- MedlinePlus Disaster Preparation and Recovery:  
<http://www.nlm.nih.gov/medlineplus/disasterpreparationandrecovery.html>
- Pandemic and Avian Flu:  
<http://www.pandemicflu.gov/>
- Health Library for Disasters:  
<http://www.helid.desastres.net/>



# Databases

# TOXNET

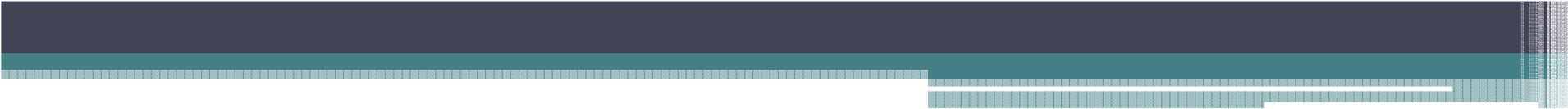
- <http://toxnet.nlm.nih.gov/>
- Collection of toxicology and environmental health databases
- Includes a database of potentially hazardous chemicals, references to the world's toxicology literature, and a chemical dictionary and structure database
- Recommend using “Search all databases”
- Sample searches: “ricin inhalation” “aldicarb”

# Quakeline

- <http://mceer.buffalo.edu/utilities/quakeline.asp>
- Bibliographic database that covers earthquakes, earthquake engineering, natural hazard and disaster mitigation
- IDs are like subject searches
- Sample search: KW crush injury, phrase/ID “crush syndrome”
- Strengths are more in the area of engineering and structural related issues than direct medical care

# HazLit

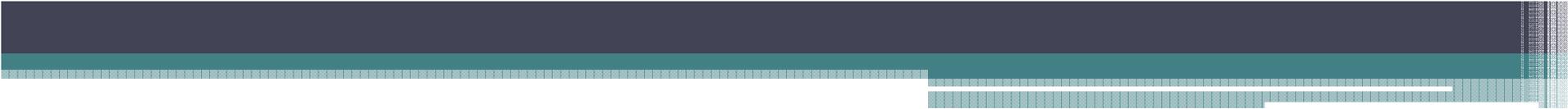
- <http://ibs.colorado.edu/hazards/library/hazlit/NatHazSearch.php>
- Social science aspects of natural disasters and catastrophic events
- Keywords can only be selected from a menu
- Sample search: KW “disaster medicine” AND KW “higher education”
- Caution: many results are from 1980s and 1990s



# Mobile Resources

# WISER

- Wireless information system for emergency responders
- <http://wiser.nlm.nih.gov/>
- Available as a website or as a downloadable application for Palm/Windows/Windows Mobile
- We will look at WISER app



# Modes of searching WISER

- Identify unknown substance
- Browse list of substances
- Characteristics of substance itself
- Symptoms of those exposed
- Vehicle placards
- Can combine criteria from different sections
- Sample search: solid, crystalline, almond-like odor, blackish → antimony

# WISER: "Help identify" mode

WISER - [Help Identify Unknown]

File Tools Window Help

1st Responder

Start Properties Symptoms Categories NFPA 704 Transport All Selected Results

Select from the image or drop-down list

Respiratory

irregular breathing 185  
 slow breathing 149  
 rapid breathing  
 shortness of breath 179  
 wheezing 156  
 respiratory arrest 141  
 resp burning/irritation 135  
 pulmonary edema 151  
 chest discomfort 125  
 congestion 108  
 coughing/choking 113  
 coughing blood 19  
 sneezing 14  
 hypoxia/cyanosis 167

Selected Symptoms

(Neurological) fatigue/weakness  
(Respiratory) rapid breathing

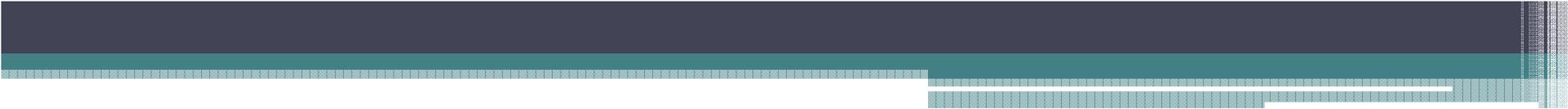
Results Count

185 of 419

Chemical Tools  
Biological Tools  
Radiological Tools

# WISER: "Known substances" mode

The screenshot displays the WISER software interface for Ethyl Acetate. The window title is "WISER - [Ethyl Acetate]". The menu bar includes File, Edit, Data, Tools, Window, and Help. The main content area shows "Ethyl Acetate" with CAS RN: 141-78-6 and a "Map Protective Distances" button. A left sidebar contains a "Key Info" dropdown menu with the following options: Key Info, Identification, Protective Equipment/Clothing, Protective Distance, Fire Fighting Procedures, Reactivities/Incompatibilities, Treatment Overview, Basic, Properties, Hazmat, Medical (highlighted), and Environment. The "Medical" menu is expanded, showing a sub-menu with the following items: Treatment Overview (highlighted with an orange box), Health Effects, AEGL, IDLH, Threshold Limit Values, NIOSH Recommendations, OSHA Standards, Skin/Eye/Resp. Irritants, Other Preventive Measures, Toxicity Summary, Range of Toxicity, Laboratory, Carcinogenicity Evidence, and Radiation Limits/Potential. The main content area contains text: "/Noxious)", "t, sparks, flames", and "ater spray when fighting fire may be inefficient". At the bottom, there is a "Lookup on-line at:" field with "NLM HSDB" selected and a "Go" button. On the right side, there are vertical toolbars for "Chemical Tools", "Biological Tools", and "Radiological Tools".



# REMM

- Radiation Event Medical Management
- <http://www.remm.nlm.gov/>
- Primarily directed at physicians
- Small chunks of info, but with references to the literature
- Entire website can be downloaded and run locally

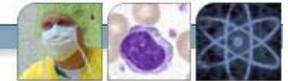
# REMM homepage

REMM HOME | CONTACT US | SITE MAP | ABOUT REMM

# REMM

## RADIATION EVENT MEDICAL MANAGEMENT

Guidance on Diagnosis & Treatment for Health Care Providers



SEARCH

WHAT KIND OF EMERGENCY?

INITIAL EVENT ACTIVITIES

PATIENT MANAGEMENT

MANAGEMENT MODIFIERS

TOOLS & GUIDELINES

### WHAT KIND OF EMERGENCY?

- Radiological Dispersal Devices:  
Dirty Bomb, Other Dispersal Methods
- Radiological Exposure Devices: Hidden Sealed Source
- Nuclear Explosions: Weapons, Improvised Nuclear Devices
- Nuclear Reactor Accidents
- Transportation Accidents
- Discovering an Event

### INITIAL EVENT ACTIVITIES

- Onsite Activities
- Triage Guidelines
- Hospital Activities

### OTHER AUDIENCES

- First Responders in the Field
- Mental Health Professionals
- Hospitals
- Public Information Officers
- Radiation Safety and Protection
- Preplanning
- Practices and Drills
- Pet Owners

### ABOUT THIS SITE

- What Are the Goals of This Site?
- Who Produced This Site?

### PATIENT MANAGEMENT

- Choose Appropriate Algorithm:  
Evaluate for Contamination/Exposure
- Contamination
- Exposure (Acute Radiation Syndrome)
- Exposure + Contamination

### MANAGEMENT MODIFIERS

- Radiation + Trauma
- Burn Triage and Treatment
- Mass Casualty
- Psychological Issues
- Specific Populations

### TOOLS & GUIDELINES

- Dose Estimator for Exposure
- Template for Hospital Orders
- Use of Blood Products
- Follow-up Instructions
- Population Monitoring
- Management of the Deceased
- Develop a Radiation Response Plan
- Equip an Emergency Department for Decontamination

### REFERENCE/DATA CENTER

- Training and Education
- Dictionary
- Animations, Illustrations, Photos

### FEATURES

- Planning guidance for response to a nuclear detonation, 1/2009 (Homeland Security Council)
- Population Monitoring in Radiation Emergencies: A Guide for State and Local Public Health Planners, 8/2007 (HHS/CDC)
- Medical Countermeasures Against Radiological and Nuclear Threats (NIH/NIAD)

### QUICK LINKS

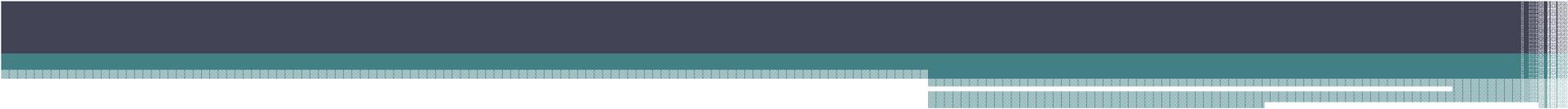
- **New Users: Where Do I Start?**
- **What's New on REMM**
- Patient Management Algorithms
- Print Algorithms & Tables
- Isotopes of Interest
- Countermeasures
- Decontamination Procedures
- Dose Estimator for Exposure
- Manage ARS Subsyndromes
- Hematopoietic Subsyndrome
- Cutaneous Radiation Syndrome
- Time/Dose Effects in ARS
- Time Phases of ARS
- Strategic National Stockpile
- Animations, Illustrations, Photos
- Dictionary
- Emergency Contacts
- **Download REMM (7/2008)**
- **Download Mobile REMM (12/2008)**

### OTHER WEB RESOURCES

- AFRI
- HPS

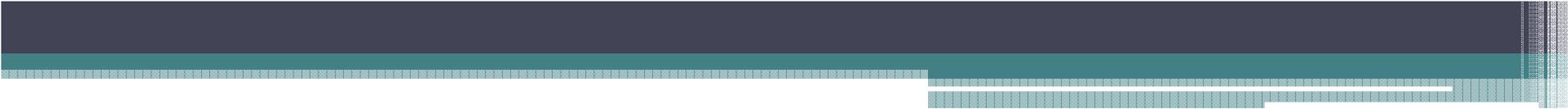
# Keeping up with RSS and listservs

- Disaster Informationist Pilot Project listserv:  
<https://list.nih.gov/archives/disastr-outreach-lib.html>
- NYU Disaster Preparedness Team links:  
<http://delicious.com/nyudisprep>
- Use an RSS reader to subscribe to feeds as you come across them
- In PubMed, save searches as alerts



# Disaster planning at your library

- NN/LM MAR class on service continuity and planning, already offered this spring
- NN/LM Emergency Preparedness & Response Toolkit (blog): <http://nnlm.gov/ep/>
- Template for a library disaster plan: <http://www.dplan.org>



# Closing

- This is just an overview of the many resources available
- Please feel free to contact NN/LM MAR for further assistance
- Thank you for your time and interest
- Contact: [emily.molanphy@med.nyu.edu](mailto:emily.molanphy@med.nyu.edu)