

Disaster Information Management Research Center



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In 2006



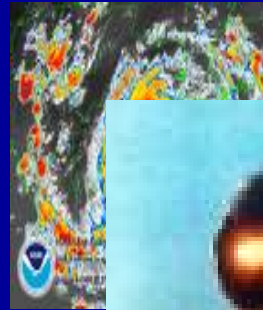
- **Medical Management for Disasters DHS to DHHS**

- **2006-16 NLM Long Range Plan**

Disaster Information Management Research Center

Disasters

Acts of Nature



Accidents



Terrorism



Pandemics





? DIMRC at the NLM



- *Need a single government agency that specializes in providing disaster information, management & research*
- *Experts in information management*
- *Long history of programs, partnerships for providing information for disaster preparedness & response*



Selected National Library of Medicine Resources for Disaster Preparedness and Response

Environmental Health and Toxicology Home Page

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

WISER'S Wireless Information System for Emergency Responders

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

A system to help emergency responders identify and respond to chemical emergencies; contains information on over 400 chemicals

- PDA version (Palm OS and Pocket PC)
- PC desktop version
- Web version: WebWISER (<http://webwiserm.nlm.nih.gov>)

TOXNET'S Toxicology Data Network

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

Over 12 databases on toxicology, toxic chemical releases, & environmental health including:

- **HSDB'S** Hazardous Substances Databank
Comprehensive toxicological data on over 5,000 chemicals
- **ChemIDplus'S** Chemical dictionary of over 300,000 chemicals
Names, synonyms, Registry numbers, structures, links
- **TOXMAP'S** Environmental health e-maps (<http://toxmap.nlm.nih.gov>)
Locations of certain toxic chemical releases and hazardous waste sites
- **Haz-Map'S** Occupational health database (<http://hazmap.nlm.nih.gov>)
Links jobs and tasks to occupational exposures, symptoms, and diseases

REMM'S Radiation Event Medical Management System

<http://remm.nlm.gov>

Guidance on the clinical diagnosis and treatment of mass casualty radiological/nuclear events for health care providers

Tox Town'S Interactive guide to environmental health risks and potentially toxic substances

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

Find environmental health risks and chemicals in a town, city, port, farm, or at the US-Mexico border; link to selected resources about these health risks and chemicals

Tox Town disaster resources: <http://toxtown.nlm.nih.gov/katrina/>

Enviro-Health Links - Web links and pre-formulated searches of NLM databases

<http://sis.nlm.nih.gov/enviro/envirohealthlinks.html>

Biological Warfare Agents
Chemical Warfare Agents
Health Effects from the World Trade Center
Hurricanes: Links to Environmental Health Information

PubMed'S Reference to the biomedical literature

<http://pubmed.gov>

Journals on disaster medicine

(Disasters, Disaster Management and Response, Hospital and Disaster Medicine International Journal, Mass Emergencies and Disasters)

Over 30,000 references on disaster/emergency preparedness and response (including natural disasters, bioterrorism, chemical terrorism, and pandemic flu)

PubMed Central - Archive of full-text biomedical journal articles

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

Nearly 9,000 full-text articles on disaster/emergency preparedness and response

PHPartners.org'S Partners in Information Access for the Public Health Workforce

<http://phpartners.org> (Supported by NLM and other public health agencies and organizations)

Includes resources and web links on bioterrorism and environmental health

Resource Guide for Public Health Professionals

<http://phpreparedness.info> (New York Academy of Medicine, with NLM support)

Gateway to online resources related to public health preparedness including expert guidelines, websites, research reports, articles, and other tools for the public health community

Central American Network for Disaster Health Information (CANDHI)

<http://www.adcror> (Regional Disaster Information Center for Latin America and the Caribbean, with NLM support)

Digital library of over 12,000 documents, assessments and reports on disasters; also includes many other disaster resources

Consumer Health Resources

MedlinePlus and MedlinePlus Go Local

<http://medlineplus.gov> and <http://www.nlm.nih.gov/medlineplus/golocal/index.html>

Anthrax'S links and tutorial	Smallpox
BioDefense and Bioterrorism	Bird Flu'S links and tutorial
Chemical Weapons	Radiation Exposure
Disaster Preparation and Recovery	Fire Safety
Coping with Disasters	Emergency Medical Services
Man-Made Disasters	Post-Traumatic Stress Disorder
Natural Disasters	Community resources (Go Local)

Household Products Database

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

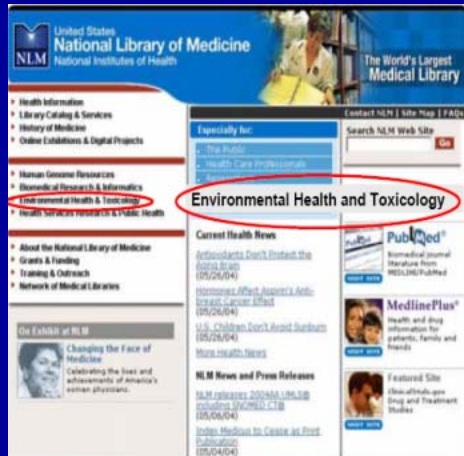
Health and safety information on over 7,000 household products

Need Help? Contact your Regional Medical Library (RML) for assistance

<http://nrlm.gov> or 1-800-338-7657

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SIS Resources for Emergency Preparedness & Response



HSDB – Hazardous Substances Data Bank

comprehensive peer-reviewed information on hazardous chemical substances

Includes...

- Human exposure symptoms
- Physical properties
- Emergency handling procedures



Toxicology and Environmental Health Program

- provide core toxicology and environmental health information resources and services



- facilitate access to toxicology and environmental health information

Household Products Database



DIMRC: a new dedicated NLM service

Identify relevant literature

Team librarians with emergency planners

New Tools & Services

Training & Continuing education

Research

Identify Relevant Literature

- ***Medline***
 - LSTRC working group -DLSTRC
- ***Grey literature / MeSH***
 - Community resources
 - Training design & technologies
 - Preparedness options
 - Response plans for different events (e.g. flu v flood)
 - Recovery / Normalization (e.g. agencies)

Team librarians with emergency planners

- *Train Disaster Information Specialists*
- *Create Emergency Information Centers in Libraries*
 - Hospitals
 - PHS
 - Fire
 - Police
 - Hazmat
 - Etc.
- *Participate in Drills*
- *Embed DIS's in EOC's*

*Pilot Project:
Disaster Information Specialist*

Emergency Operations Center Software



DISASTER MANAGEMENT

New Tools & Services

WISER

Wireless Information System for Emergency Responders

Strategic Objectives

- Easy navigation, intuitive
- Information tailored to the specific role of the emergency responder
- Focus on unknown substance identification capabilities
- Provide a platform that can be expanded to support other emergency response needs
- Rich, stand-alone capability with enhanced connected (wireless) capabilities
- Cross-platform, multi-device architecture



Provide real time
INTEGRATED information to Achieve a
common operating picture & shared situational
awareness

Example: you identify a chemical plume

Location of:

- nursing homes
- day cares
- traffic patterns
- hospitals
- weather



Training & Continuing Education

NLM developing programs to train librarians

“Train the trainers”

Tutorials & Simulations for responders

Wiki / Google portal

2nd Life/ YouTube Platforms

WISER system



Research

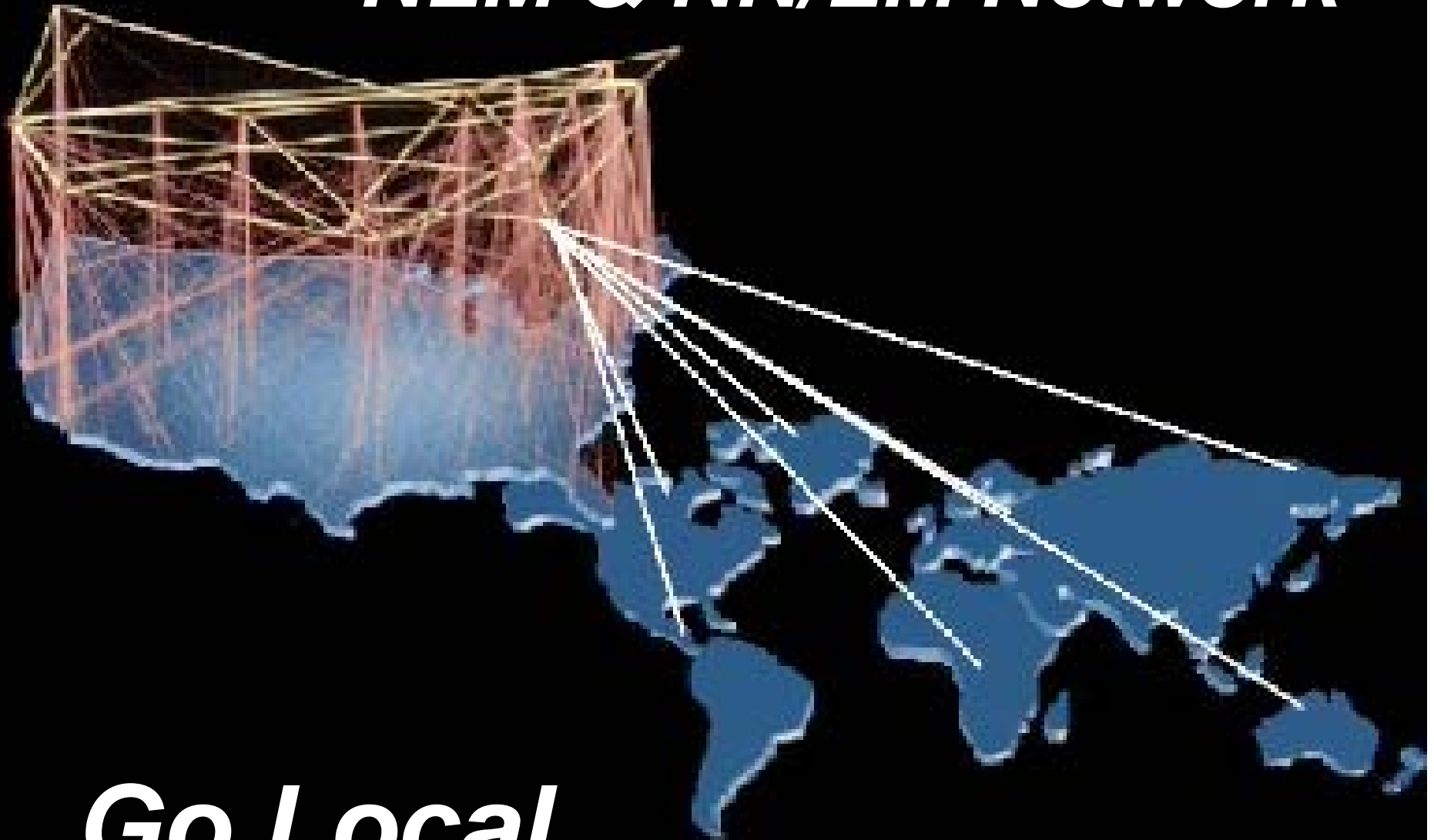
- *Maintain connectivity*
- *Syndromic Surveillance*
- *RF triage tags*
- *Communications interoperability*

-IP-based Interoperability with Voice, Video, and Data Integration



“How to Deliver
the Right Information
in the Right Format
to the Right Person
at the Right Time”

NLM & NN/LM Network



Go Local

NLM & NN/LM

- *Librarians expert in gathering and organizing information*
- Repositories of the history of regional events
- Plan & train for the regional response ***AS A TEAM***
- Communication hubs
- Data triage centers
- Databases resources
- ***All connected with back-up plans***

Summary: DIMRC

U.S. Government portal to provide tools , information & research ways to assist with disaster preparedness & response