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Providing Evidence-Based Public Health Resources: The Librarian's Role

E. Hatheway Simpson University of Massachusetts Medical School

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Providing Evidence-Based Public Health Resources: The Librarian's Role

Elaine Martin
Hathy Simpson
Nancy Peterson

NAHSL September 27, 2005

Evidence-Based Practice for Public Health Project

http://library.umassmed.edu/ebpph

Partners in Information Access for the Public Health Workforce Project

http://PHPartners.org

Evidence-Based + Public Health

- The conscientious, explicit, and judicious use of current best evidence in making decisions about
- the care of communities and populations in the domain of health protection, disease prevention, health maintenance and improvement.

Source:

Jenicek M. Epidemiology, evidenced-based medicine, and evidence-based public health. J Epidemiol. Dec 1997;7(4):187-197.

The Public Health Workforce

- Epidemiologists
- Statisticians
- Environmental Engineers
- Animal Control Officers
- Sanitarians
- Food Scientists
- Industrial Hygienists
- Health Care Administrators
- Health Economists
- Politicians

- Social Workers
- Mental Health Workers
- Substance Abuse Counselors
- Doctors
- Nurses
- Teachers
- Disaster Relief Workers
- Nutritionists
- Lab Technicians
- Librarians

Evidence-Based Public Health



Decisions for Public Health Practice

- Interventions
 - Programs
 - Policies

Evidence-Based Public Health Process

- 1. Define the public health problem.
- 2. Search and find the best evidence.
- 3. Critically appraise the evidence for validity and relevance.
- 4. Apply the evidence to practice.
- 5. Evaluate the results.

Source: Sackett DL, Rosenberg WM. The need for evidence-based medicine. *J R Soc Med.* Nov 1995;88(11):620-624.

Sibbald WJ. Some opinions on the future of evidence-based medicine. Crit Care Clin. 1998;14(3):549-558.

1. Define the public health problem



Convert the information needs into answerable questions

Forming a Searchable Public Health Question PICO

- P Population
- I Intervention
- C Comparison
- O Outcome

2. Search and find the best evidence



3. Critically appraise the evidence for validity and relevance

Evidence-Based Resources for Public Health Practice

- Evidence-Based Guidelines
- Systematic Reviews
- Pre-formulated & Filtered Searches
- Best & Model Practices
- Public Health Bibliographic Databases
- Public Health Journals

Project Web Site: http://library.umassmed.edu/ebpph

Evidence-Based Guidelines

http://www.thecommunityguide.org



Become Involved

Send comments and suggestiosns

Home About Us

The Task Force

Overview

Topics

Alcohol Cancer

Mental Health

Diabetes

Substance Abuse

Motor Vehicle

Nutrition

Obesity

Oral Health

Physical Activity

Pregnancy

Tobacco

Sexual Behavior Social Environment

Vaccines Vaccines

Violence

Library

Articles, Slide Sets, etc.

Methods

Economic Findings

Links

Site Search

Search

In The Spotlight:

The Guide to Community Preventive Services is now available in book form.

Get your copy at a 15% discount.

Or read individual chapters here

America's Health: State Health Rankings - 2004 Edition

The Community Guide at a Glance

Recommendations by Topic

Changing Health Risk Behaviors

Physical Activity

Tobacco Product Use

Nutrition

Sexual Behavior

Alcohol Abuse

Addressing the Environment

Social Environment

Addressing Specific Health Conditions

Cancer Diabetes

Mental Health

Motor Vehicle Occupant Injury

Obesity

Oral Health

Vaccine Preventable Diseases

Violence

Información en Español

Tobacco Use Prevention & Control

INTERVENTIONS	Strength of Evidence	
	Recommended (Strong Evidence)	••
	Recommended (Sufficient Evidence)	9
Insufficient Evidence to Determine Effectives		ess •
Reducing Environmental Tobacco Smoke		
Smoking bans and restrictions		••
Community education		?
Reducing Initiation		
Increasing the unit price for tobacco		••
Media campaigns with interventions		••
Increasing Cessation		
Increasing the unit price for tobacco products		••
Media campaigns with interventions		••
Smoking cessation series		?
Smoking cessation contests		
Provider education systems alone		?
Provider reminder systems alone		•
Provider reminder systems with provider ed		••
Provider feedback system		
Reducing patient costs for treatments		
Quitter telephone support with interventions 🌽		

Reviews of Evidence Regarding Interventions to Reduce Tobacco Use and Exposure to Environmental Tobacco Smoke

David P. Hopkins, MD, MPH, Peter A. Briss, MD, Connie J. Ricard, MPH, Corinne G. Husten, MD, MPH, Vilma G. Carande-Kulis, MS, PhD, Jonathan E. Fielding, MD, MPH, MBA, Mary O. Alao, MA, Jeffrey W. McKenna, MS, Donald J. Sharp, MD, DTM&H, Jeffrey R. Harris, MD, MPH, Trevor A. Woollery, PhD, Kate W. Harris, BA, The Task Force on Community Preventive Services

Overview:

This report presents the results of systematic reviews of effectiveness, applicability, other effects, economic evaluations, and barriers to use of selected population-based interventions intended to reduce tobacco use and exposure to environmental tobacco smoke. The related systematic reviews are linked by a common conceptual approach. These reviews form the basis of recommendations by the Task Force on Community Preventive Services (TFCPS) regarding the use of these selected interventions. The TFCPS recommendations are presented on page 67 of this supplement.

Medical Subject Headings (MeSH): smoking cessation, tobacco use cessation, tobacco smoke pollution, community health services, decision-making, evidence-based medicine, meta-analysis, review literature, practice guidelines, preventive health services, public health practice (Am J Prev Med 2001;20(2S):16–66) © 2001 American Journal of Preventive Medicine

Systematic Reviews

http://www.vichealth.vic.gov.au/cochrane/activities/reviews.htm



COCHRANE HEALTH PROMOTION AND PUBLIC HEALTH FIELD

Welcome

Overview

About the Field

Activities

Training in systematic reviews

Cochrane reviews and protocols

Latest News

(including funding opportunities) Cochrane reviews (and protocols) of relevance to health promotion and public health

The Cochrane reviews and protocols (reviews in progress) below are available in *The Cochrane Library*. Absracts of the reviews can be viewed at no charge at the Collaboration's website

(http://www.cochrane.org/cochrane/revabstr/mainindex.htm).

Full text of reviews and protocols are only available through The Cochrane Library (http://www3.interscience.wiley.com/cgi-bin/mrwhome/106568753/HOME).

(new) indicates new entry as at Issue 3, 2005 of The Cochrane Library

For a list of current **titles** (topics registered with a Review Group, for progress to a Cochrane protocol) of health promotion/public health interventions, <u>click here</u>.

Cardiovascular health

REVIEWS

- Smoking cessation for the secondary prevention of coronary heart disease
- Interventions for promoting physical activity
- Home versus center based physical activity programs for older adults
- Reduced dietary salt for prevention of cardiovascular disease
- Effects of low sodium diet versus high sodium diet on blood pressure, renin, aldosterone, catecholamines, cholesterols, and triglyceride
- Multiple risk factor interventions for primary prevention of coronary heart

Cochrane Systematic Review

[Review]

Helmets for preventing injury in motorcycle riders

B Liu, R Ivers, R Norton, S Blows, SK Lo

The Cochrane Database of Systematic Reviews
Copyright © 2005 The Cochrane Collaboration.

DOI: 10.1002/14651858.CD004333.pub2 This ve
Date of Most Recent Substantive Amendment:

This record should be cited as: Liu B, Ivers R, No. 4. Art. No.: CD004333. DOI: 10.1002/14651858.CD

Abstract

Background

Motorcycle crash victims form a high prop common cause of severe morbidity and mo use decreases rider vision and increase, ne face and neck injuries following my torcycle

Objectives

To quantify the effective ess of wearing a r

Search strategy

Databases including the Cochrane Injuries Group Specialised Register, Cochrane Central Register of Controlled Trials (*The Cochrane Library* issue MEDLINE (January 1966 to February 2003), EMBASE (January 1985 to February 2003), CINAHL (January 1982 to February 2003), IRRD (Int Road Research Documentation), TRANSDOC, TRIS (Transport Research Information Service), ATRI (Australian Transport Index) (1976 to Feb 2 Citation Index were searched for relevant articles. Web sites of traffic and road accident research bodies including government agencies were also sea Reference lists from topic reviews, identified studies and bibliographies were examined for relevant articles.

Search strategy

Databases including the Cochrane Injuries Group Specialised Register, Cochrane Central Register of Controlled Trials, MEDLINE, EMBASE, CINAHL, IRRD (International Road Research Documentation), TRANSDOC, TRIS (Transport Research Information Service), ATRI, Science Citation Index were searched for relevant articles. Web sites of traffic and road accident research bodies including government agencies were also searched. Reference lists from topic reviews, identified studies and bibliographies were examined for relevant articles.

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Browse

Search

Start

- addiction/drug use
- adolescent health
- adult health
- child bealth
- chronic diseases
- communicable disease & infection
- community health

Focus of Review:

- 🖽 🔲 Addiction/Drug Use
- 🖮 🔲 Adult Health
- 🖮 🔲 Child Health
- 庄 🔲 Chronic Diseases
- □ □ Communicable Disease/Infection

 - 🖮 🔲 blood borne diseases
 - 😟 🔲 chickenpox

 - 🖮 🔲 diphtheria
 - 🖮 🔲 disease outbreaks
 - 进 🔲 disease transmission
 - 🖮 🔲 haemophilus influenza type b
 - 亩 🔲 hand foot mouth
 - 🖮 🔲 hantavirus

increase fruit and vegetable cons

Pre-formulated PubMed Searches http://phpartners.org/hp



A collaboration of U.S. government agencies, public health organizations and health sciences libraries

Search:

Home | News | About Partners | Sitemap

Health Promotion and Health Education

Literature and Guidelines

<u>Health Data Tools and</u> <u>Statistics</u>

Grants and Funding

Education and Training

Legislation

Conferences and Meetings

Finding People

Discussion and E-mail
Lists

Jobs and Careers

HP2010 Information Access Project

Search by Focus Area | About this Project | Tips on Searching | Give Us Feedback | Contributors

Search by Focus Area

This site lets you search for published literature related to the Healthy People 2010 focus areas.

- Access to Quality Health Services
- Arthritis, Osteoporosis, and Chronic Back Conditions
- Cancer
- Chronic Kidney Disease
- Diabetes
- Disability and Secondary Conditions
- Educational and Community-Based Programs
- Environmental Health
- Family Planning
- Food Safety
 - Health Communication
 - Hearing Objectives
 - Heart Disease and Stroke
 - HIV
 - Immunization and Infectious Diseases

Healthy People 2010 Information Access Project http://phpartners.org/hp

Food Safety

Search by Focus Area | About this Project | Tips on Searching | Give Us Feedback | Contributors

Click the Publiced button to run the search in PubMed.

Link to the complete Healthy People 2010 Chapter.





Reduce infections caused by key foodborne pathogens. (Objective 10-01)



Prevent an increase in the proportion of isolates of Salmonella species from humans and from animals at slaughter that are resistant to antimicrobial drugs. (Objective 10-03)



Increase the proportion of consumers who follow key food safety practices. (Objective 10-05)



Improve food employee behaviors and food preparation practices that directly relate to foodborne illnesses in retail food establishments. (Objective 10-06)



Reduce human exposure to organophosphate pesticides from food. (Objective 10-07)

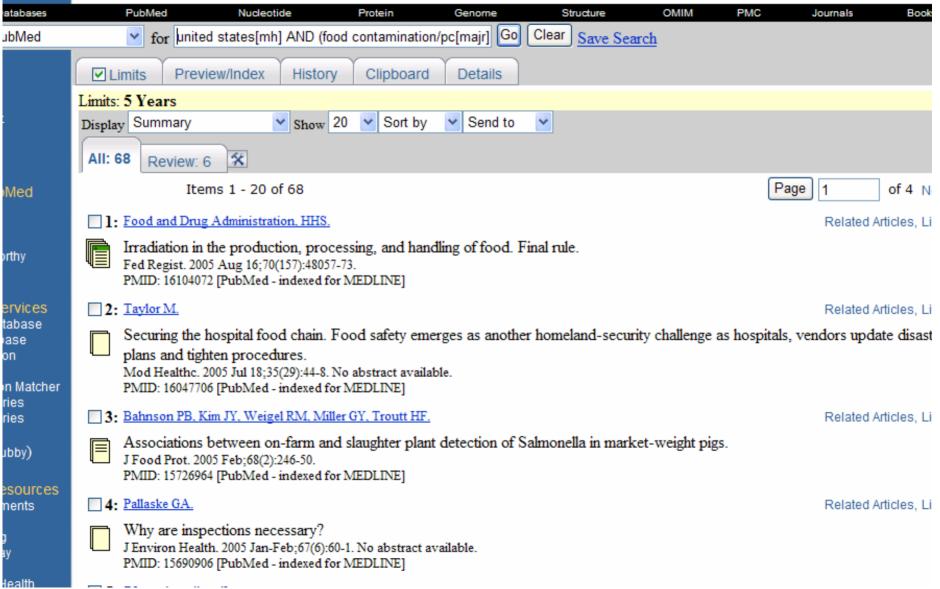
Related Resources

- MEDLINEplus Food Poisoning
- MEDLINEplus Food Safety
- MEDLINEplus Salmonella Infections









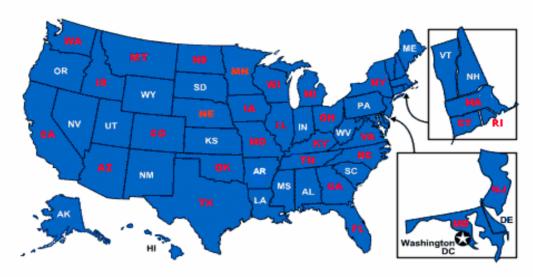
Query Translation:

"united states" [MeSH Terms] AND (food contamination/prevention and control[majr] OR food contamination/legislation and jurisprudence [majr] OR food poisoning/prevention and control [majr]) AND (("food-processing industry" [MeSH Major Major Topic] OR "food industry" [MeSH Major Topic]) AND (("public health" [MeSH Terms] OR public health [Text Word]) OR "public policy" [MeSH Terms]) AND english[la] AND "1999/05/13

Model Practices Database

http://archive.naccho.org/modelPractices

Click on states highlighted in red to view practices in that state.



To view practices by topic, click on one of the categories below.

Community Health	Environmental Health	Public Health Infrastructure and Preparedness
Access to Care Chronic Disease Community Assessment Community Involvement Health Disparities Immunization Infectious Disease Injury Prevention Maternal and Child Health Primary Care Tobacco	Air Quality Animal Control Children's Environmental Health Food Safety Hazardous Waste Land Use Planning Vector Control Water Quality Waste Waste	Bioterrorism and Emergency Preparedness Cultural Competence Information Technology Organizational Practices Public Health Infrastructure Workforce Development



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University of Massachusetts Medical School

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Sea

Public Health Databases

Free Public Health Databases



Browse by title: ALL TITLES A B C D E F G H I J K L M N O P Q R S T U V W X

Examples of Public Health Bibliographic Databases Available by Subscription Only:

- **CINAHL**
- **Econl** it
- **EMBASE**
- **PsycINFO**
- Science Citation Index
- Social Science Citation Index
- Sociological Abstracts

Free Online Public Health Databases

Free Public Health Databases

AEGIS (AIDS Education Global Information System)

African Index Medicus

AgeLine

AGRICOLA

Alcohol and Alcohol Problems Science Database (ETOH)

Alcohol Studies Database

Annual Review of Population Law

ARIV (Alcohol-Related Injury & Violence Literature Database)

BCERF, Environmental Risk Factor Database

BiblioMap: Health Promotion References

Cancer Prevention and Control Database

CancerLit

Catalog of U.S. Government Publications

CDC Recommends: The Prevention Guidelines System

CDC Wonder

CHID (Combined Health Information Database)

CPDB (Carcinogenic Potency Database)

DESASTRES, Disaster Documentation Center Collection

Developmental & Reproductive Toxicology (DART/ETIC)

Dissertation Abstracts

DOE Information Bridge

DoPHER, Database of Promoting Health Effectiveness Reviews

ECOTOX

EMIC (Environmental Mutagen Information Center)

Epilepsy Education, Management and Prevention Activities Database

ERIC

EthnoMed

EurasiaHealth Knowledge Network Multilingual Library

GPO Access

Hoalth Communication Materials Database

Public Health Journals



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Environmental Health Journals

Address Address http://library.umassmed.edu/ebpph/journalsKNaction.cfm



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Public Health Journals

Knowledge Domain: Environmental Health

Applied Occupational and Environmental Hygiene

Knowledge Domain(s): Occupational Health; Environmental Health

Archives of Environmental Contamination and Toxicology

Knowledge Domain(s): Environmental Health

Archives of Environmental Health

Knowledge Domain(s): Environmental Health

Archives of Toxicology

Knowledge Domain(s): Environmental Health

ATSDR Toxicological Profiles

Knowledge Domain(s): Environmental Health

Bulletin of Environmental Contamination and Toxicology

Knowledge Domain(s): Environmental Health

Contact Dermatitis

Knowledge Domain(s): Environmental Health; Occupational Health; Chronic Diseases & Conditions

Critical Reviews in Toxicology

Knowledge Domain(s): Environmental Health

_ _ -

Free Online Public Health Journal

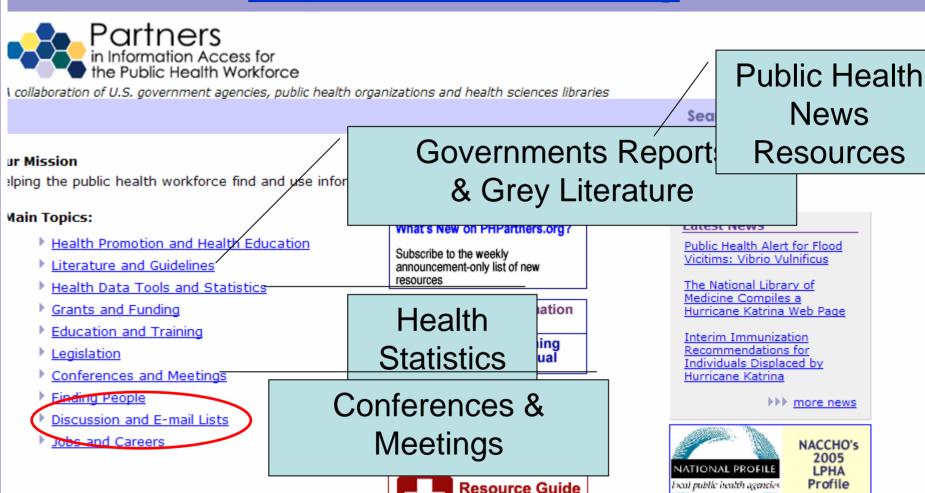


HAVE YOUR SAY

Additional Public Health Information Sources

- Grey literature
- News
- Listservs
- Government reports
- Statistics
- Meeting abstracts
- Organization websites

Public Health Web Portal: http://PHPartners.org



for Public Health Preparedness

Role of Information Services for Emergency Preparedness and Response Symposium **Hurricane Katrina:**

PHPartners.org: Discussion & Email Lists

Health Promotion and Health Education

Literature and Guidelines

<u>Health Data Tools and</u> <u>Statistics</u>

Grants and Funding

Education and Training

Legislation

Conferences and Meetings

Finding People

Discussion and E-mail Lists

Jobs and Careers

Discussion and E-mail Lists

Resources to support e-mail communication among public health colleagues. The <u>News</u> page also provides links to help you stay informed.

- AHRQ Electronic Newsletter (Non-Media Only) (Agency for Healthcare Research and Quality) An
 electronic newsletter is provided for people who are interested in receiving announcements and
 information by E-mail about Agency activities. The newsletter is sent out on a regular basis, as news
 warrants. It describes the results of AHRQ-funded studies, announces the availability of new print and
 electronic resources, gives updates on the status of current funding opportunities, and much more.
- AHRQ's Bioterrorism Preparedness LISTSERV® (Agency for Healthcare Research and Quality) For Discussion and E-mail Lists page Items of interest about the results of AHRQ's bioterrorism
 preparedness research, planning, and response projects.
- AHRO's Patient Safety E-Newsletter The Agency for Healthcare Research and Quality (AHRQ) publishes the Patient Safety E-Newsletter to make available important patient safety news and information. The E-Newsletter is issued on a monthly basis.
- <u>Bringing Health Information to the Community</u> Website contains many useful public health links with a description of the resource. A digest version is also available.
- <u>Centers for Public Health Preparedness Newsgroup</u> (Centers for the Study of Bioterrorism and Emerging Infections)
- EPA Lists (Environmental Protection Agency)
- EPA Subscribe to E-mail Notification of News and Information (Environmental Protection Agency)
- <u>FDA & You. News for Health Educators and Students</u> (Food and Drug Administration) An
 educational newsletter intended for use by health educators, secondary school students and their
 parents. It contains news about medical products from each of FDA's five Centers
- FDA E-mail Lists (U.S. Food and Drug Administration)
- Join Online Discussion Groups (American Public Health Association) Sections have discussion groups that are open to members of APHA
- <u>Listservs at NCHS</u> (National Center for Health Statistics, Centers for Disease Control and Prevention) -List of over 10 subject electronic distribution lists set up by the National Center for Health Statistics
- New Minority Grant Listsery (Centers for Disease Control and Prevention) Subscribers will have a

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ur Mission

slping the public health workforce find and use information effectively to improve and protect the public's health

Main Topics:

- ▶ Health Promotion and Health Education
- Literature and Guidelines
- ▶ Health Data Tools and Statistics
- Grants and Funding
- Education and Training
- Legislation
- Conferences and Meetings
- Finding People
- Discussion and E-mail Lists
- Jobs and Careers

What's New on PHPartners.org?

Subscribe to the weekly announcement-only list of new resources

Public Health Information and Data:

Tutorial

Training Manual

Research

is just

a click away...



Role of Information Services for Emergency Preparedness and Response Symposium

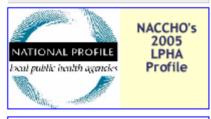
Latest News

Public Health Alert for Flood Vicitims: Vibrio Vulnificus

The National Library of Medicine Compiles a Hurricane Katrina Web Page

Interim Immunization Recommendations for Individuals Displaced by Hurricane Katrina

▶▶▶ more news



Hurricane Katrina:

I to be de la complete de la fermionidad

Public Health Web Portal: http://PHPartners.org



I collaboration of U.S. government agencies, public health organizations and health sciences libraries

Search: go

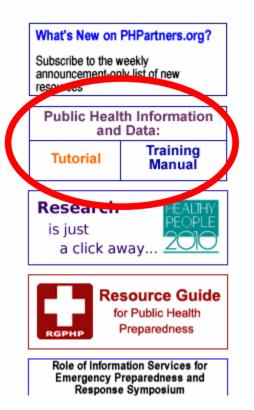
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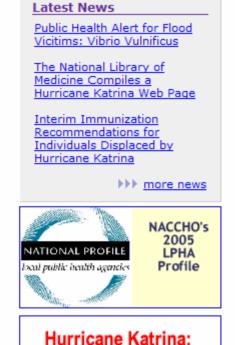
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- Education and Training
- Legislation
- Conferences and Meetings
- Finding People
- Discussion and E-mail Lists
- Jobs and Careers





PHPartners.org: Online Public Health Tutorial



About This Tutorial

How to Use This Tutorial

Acknowledgements and Credits

Your Suggestions

Public Health Information and Data Tutorial provides instruction for members of the public health workforce on issues related to information access and management. This tutorial is based on Public Health Information and Data: A Training Manual. There are no copyright restrictions on the contents of this tutorial or the training manual, and users are free to adapt or duplicate any portion.

The contributors and authors of this tutorial's content represent city, county, state and federal agencies. They establish clear connections to recognized competencies in public health and provide examples representing much of the diversity inherent in the practice of public health.

Learning objectives:

- Stay informed of developments and events related to public health;
- Find reliable and authoritative consumer-oriented materials to support health education;
- Retrieve statistical information and access data sets relevant to public health; and
- Retrieve and evaluate information in support of evidencebased practice.

Suggestions for improving this tutorial are encouraged. Please share your suggestions <u>here</u>.



New England Public Health Resources http://nnlm.gov/ner/publichealth.html



Public Health Resources

Information Resources

- · Partners in Information Access for the Public Health Workforce
- Evidence-Based Public Health Project Lamar Soutter Library, University of Massachusetts Medical School (Worcester, MA)
- Public Health and Epidemiology Web Sites University of Connecticut Health Center (Farmington, CT)
- E-Roadmap to Evidence-Based Public Health New Hampshire Institute for Health Policy and Practice (Durham, NH)

Training on Information Resources

- PubMed Point-Blank
- · Public Health Information and Data: A Training Manu
- Evidence-Based Public Health: Finding and Appraisin

State Resources

- Connecticut
- Maine
- Massachusetts
- · New Hampshire
- · Rhode Island
- Vermont

New England
Public Health Agencies,
Associations &
Statistical Information

Contact Information

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508-856-3594