

# Evidence-Based Public Health: Finding and Appraising Relevant Resources

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Medical Library Association

Continuing Education Course

May 22, 2010

# Today's Agenda

- Part I
  - Introductions (1:00 – 1:10 pm NA)
  - Overview of Evidence Based Public Health (1:10 – 1:20 pm NA)
  - Resources – Part I (1:20 – 2:00 pm NA)
  - Critical Appraisal – Part I (2:00 – 2:20 pm KA)
  - Case Studies/Sample Searches – Part I (2:20 – 2:50 pm ALL)
- BREAK (2:50 – 3:00 pm)

# Today's Agenda, cont'd

- Part II
  - Resources – Part II (3:00 – 3:40 pm HS)
  - Case Studies/Sample Searches – Part II (3:40 – 4:10 pm ALL)
  - Critical Appraisal – Part II (4:10 – 4:50 pm KA)
  - Wrap-up & Evaluation (4:50 – 5:00 pm HS)

# Introductions

# Objectives

- Understand the characteristics of evidence-based public health
- Be informed about the variety of resources available
- Know how to assess public health questions and respond to them effectively with freely available resources.
- Identify types of evidence and methods for appraising the public health literature

# Course Overview

- What is Evidence-Based Public Health (EBPH)?
- Why is EBPH important?
- What is the difference between public health practice & medical practice?
- What can be used as evidence for making informed public health decisions?

# Overview of Evidence Based Public Health

# The Evidence-Based Movement

EBM → EBPH

How does public health  
relate to medicine?



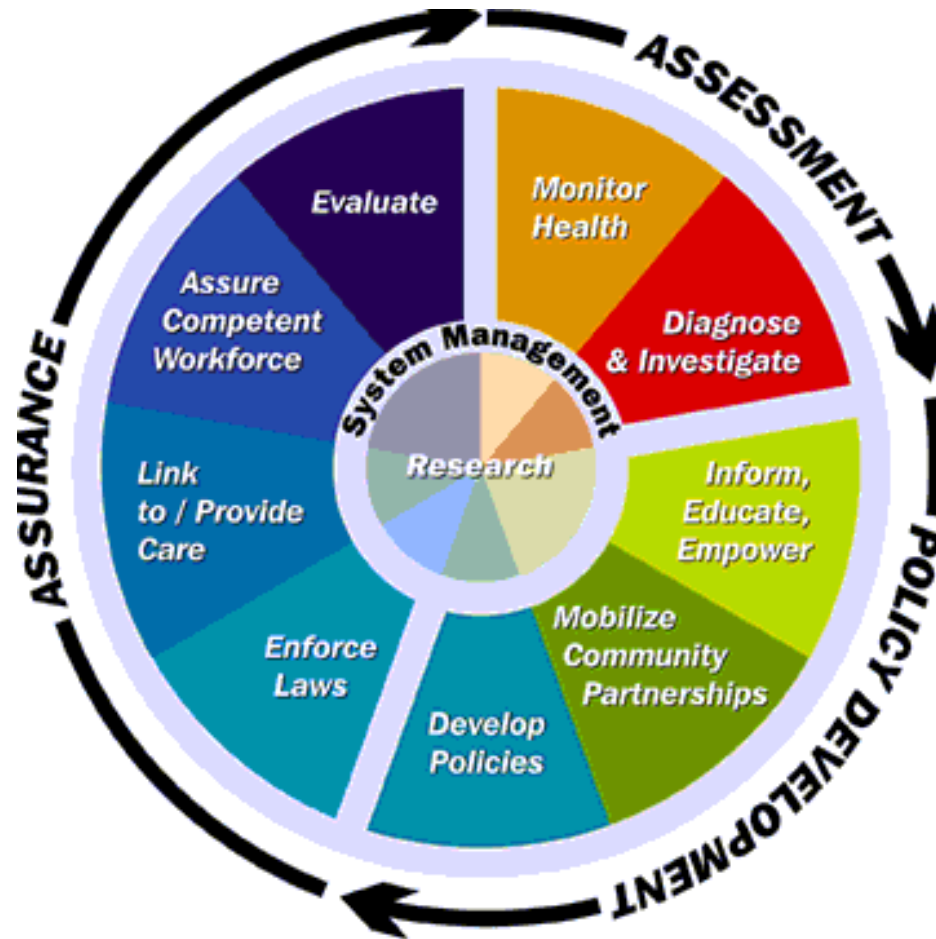
# Medicine

- Focus on individuals
- Diagnosis & treatment
- Clinical interventions
- Well-established profession, standardized education & certification
- Clinical sciences integral; social sciences less emphasized
- Experimental studies with control groups: RCTs.

# Public Health

- Focus on populations
- Prevention & health promotion
- Environment & human behavior interventions
- Diverse workforce, variable education & certifications
- Social sciences integral; clinical sciences peripheral to education
- Observational studies: case control & cohort studies

# 10 Essential Services of Public Health



# What are the Knowledge Domains of Public Health?

- The field of public health is very broad and diverse
- There are multiple disciplines (knowledge domains) within the field of public health

# The Knowledge Domains of Public Health

- Biostatistics
- Chronic Diseases
- Communicable Diseases
- Community Health
- Disaster Control & Emergency Services
- Environmental Health
- Epidemiology
- General Public Health
- Global Health
- Health Promotion & Education
- Health Services Administration
- HIV/AIDS
- Maternal & Child Health
- Nutrition
- Occupational Health
- Public Health Informatics
- Public Health Laboratory Sciences
- Public Health Nursing
- Social & Behavioral Sciences
- Vital Statistics & Surveillance

# Public Health is Multidisciplinary

- Epidemiologists
  - Statisticians
- Environmental Engineers
- Animal Control Officers
  - Sanitarians
  - Food Scientists
- Industrial Hygienists
- Health Care Administrators
  - Health Economists
    - Politicians
  - Social Workers
  - Veterinarians
- Mental Health Workers
- Substance Abuse Counselors
  - Doctors
  - Nurses
  - Teachers
- Disaster Relief Workers
  - Nutritionists
  - Lab Technicians
  - Librarians
  - Communication
- Security & Enforcement / Health Police

# Definition of 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.

# Components of EBPH

- making decisions on the basis of the best available scientific evidence
  - using data and information systems systematically
  - applying program-planning frameworks
  - engaging the community in decision making
  - conducting sound evaluation
  - disseminating what is learned
- *Source: Brownson, Ross C., Jonathan E. Fielding, Christopher M. Maylahn, "Evidence-Based Public Health: A Fundamental Concept for Public Health Practice" Annual Review of Public Health 2009 30, 175-201*

# Audience of EBPH

- public health practitioners
  - policy makers at local, regional, state, national, and international levels
  - stakeholders affected by intervention
  - researchers on population health issues
- 
- *Source: Brownson, Ross C., Jonathan E. Fielding, Christopher M. Maylahn, "Evidence-Based Public Health: A Fundamental Concept for Public Health Practice" Annual Review of Public Health 2009 30, 175-201*



# Evidence-Based Practice

- Requires integrating practitioner expertise with the best evidence from systematic research.
- Involves finding and selecting resources that are credible, relevant, and applicable to practice.

# Process of Evidence-Based Practice

1. Define the problem: convert information needs into focused questions.
2. Find the best evidence from the literature.
3. Critically appraise the evidence for validity and relevance.
4. Apply the evidence to practice.
5. Evaluate the results.

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.

# Why Evidence-Based Practice?

- So much information, too little time
- Need high quality, filtered information to make informed decisions
- Value of scientific knowledge for decision making
- Decisions should not be based only on intuition, opinion or anecdotal information



# Evidence for Public Health Practice and Policy Decisions

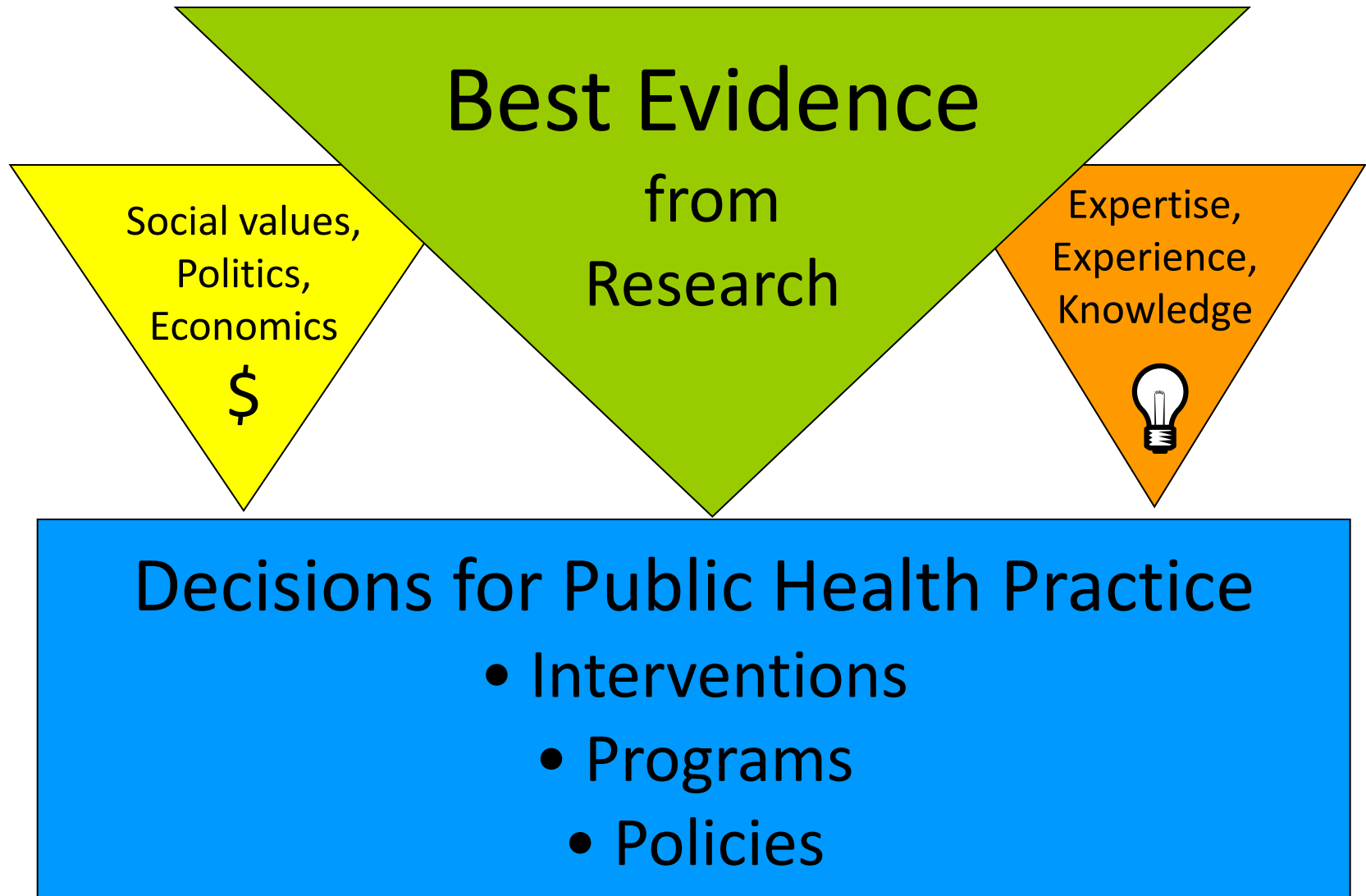


- “I make a lot of decisions about how money is going to be spent, and I would like to always be able to back it up and say that this is proven, or evidence-based.”

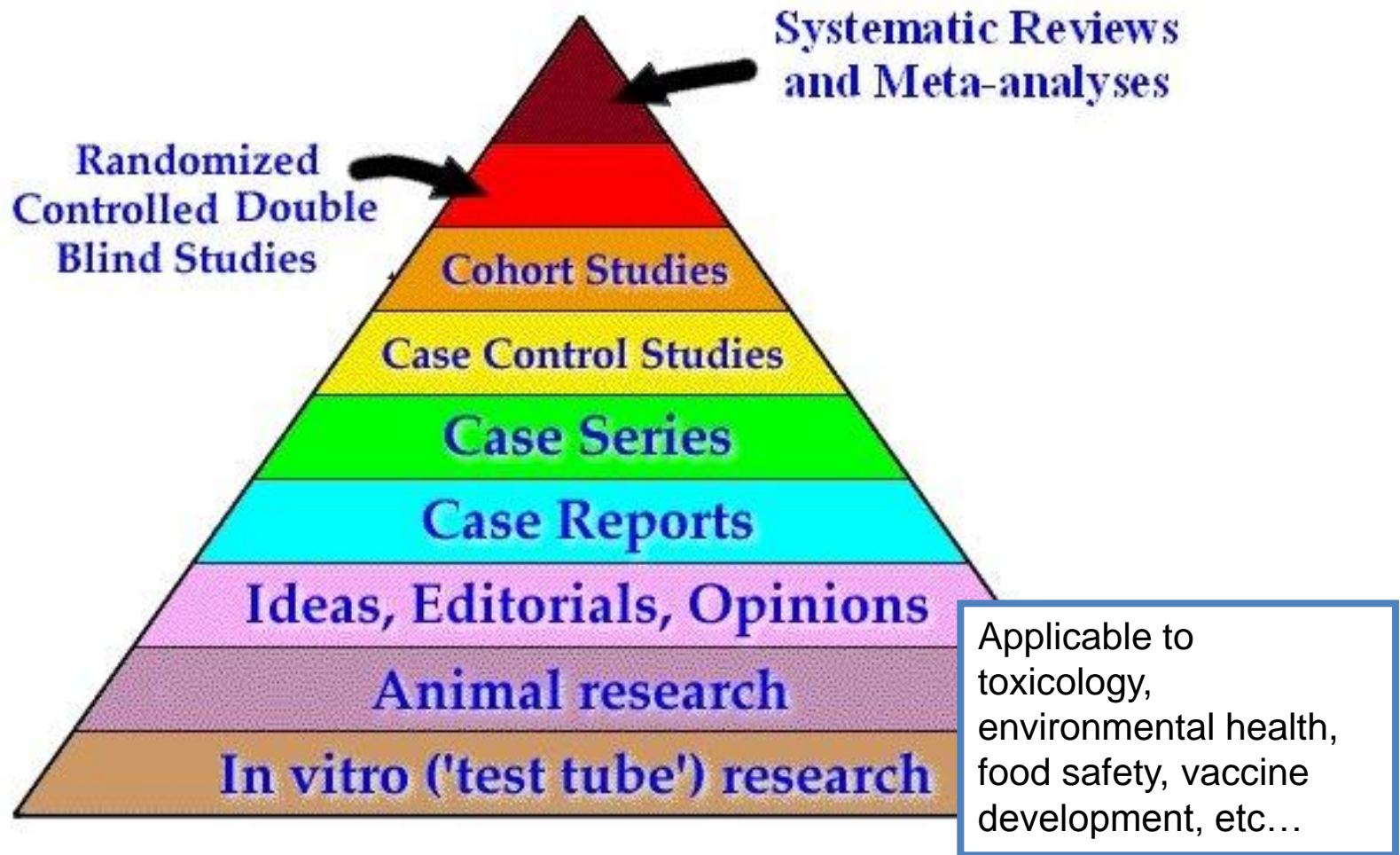
❖ Politicians need evidence to make decisions about public health programs.



# Evidence-Based Public Health



# Evidence Pyramid



# Sources of Public Health Evidence

- Journal literature
- Books
- Conference proceedings & abstracts
- Dissertations & theses
- Unpublished scientific papers
- Government reports
- Policy statements, laws & regulations
- Surveillance data
- Newsletters
- Teleconferences & webcasts
- Alert systems
- Email discussion lists
- Internet sources
- Consensus conferences
- Expert knowledge & opinion

# Benefits of EBPH

- access to more and higher-quality information on what works
  - higher likelihood of successful programs and policies being implemented
  - greater workforce productivity
  - more efficient use of public and private resources
- 
- *Source: Brownson, Ross C., Jonathan E. Fielding, Christopher M. Maylahn, "Evidence-Based Public Health: A Fundamental Concept for Public Health Practice" Annual Review of Public Health 2009 30, 175-201*



# Resources – Part I

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Search Clear



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Published in the Last: Any date

### Type of Article

- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

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### Subsets

#### Journal Groups

- Core clinical journals
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- Nursing journals

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- Links to full text
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### Languages

- English
- French
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### Gender

- Male
- Female

### Ages

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months

### Search Field Tags

Field: All Fields

# PubMed Health Services Research (HSR) Queries

## PubMed Health Services Research (HSR) Queries

This page provides specialized PubMed searches on healthcare quality and costs.

After running one of these searches, you may further refine your results using PubMed's [Limits](#) feature.

Results of searches on this page are limited to specific health services research areas (see [definitions](#)). For comprehensive searches, use [PubMed](#) directly.

Additional PubMed search filters are available, including a filter for [Systematic Reviews](#).

## Search by HSR Study Category

This search finds citations that correspond to a specific health services research study category. The search may be either broad and sensitive or narrow and specific. The search filters are based on the work of [Haynes RB et al.](#) See the [filter table](#) for details.

Search

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### Category

- Appropriateness
- Process assessment
- Outcomes assessment
- Costs
- Economics
- Qualitative research

### Scope

- Broad, sensitive search
- Narrow, specific search

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[Translating epidemiology into policy to prevent childhood obesity: the case for promoting physical activity in school settings.](#)

1. Brownson RC, Chiqui JF, Burgeson CR, Fisher MC, Ness RB.  
Ann Epidemiol. 2010 Jun;20(6):436-44.  
PMID: 20470970 [PubMed - in process]  
[Related citations](#)

[Using nature and outdoor activity to improve children's health.](#)

2. McCurdy LE, Winterbottom KE, Mehta SS, Roberts JR.  
Curr Probl Pediatr Adolesc Health Care. 2010 May;40(5):102-17.  
PMID: 20381783 [PubMed - in process]  
[Related citations](#)

[Lifetime cardiovascular risk of childhood obesity.](#)

3. Raghuv eer G.  
Am J Clin Nutr. 2010 May;91(5):1514S-1519S. Epub 2010 Mar 24.  
PMID: 20335556 [PubMed - in process]  
[Related citations](#)

[Can preschool improve child health outcomes? A systematic review.](#)

4. D'Onise K, Lynch JW, Sawyer MG, McDermott RA.  
Soc Sci Med. 2010 May;70(9):1423-40. Epub 2010 Feb 12.  
PMID: 20199834 [PubMed - in process]  
[Related citations](#)

[Prevention of obesity in preschool children.](#)

5. Lanigan J, Barber S, Singhal A.  
Proc Nutr Soc. 2010 May;69(2):204-10. Epub 2010 Feb 17.  
PMID: 20158938 [PubMed - in process]  
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- ▶ **Obesity in childhood and adolescence: evidence based** clir [Postgrad Med J. 2006]
  - ▶ Pharmacotherapy of **childhood obesity: an evidence-based, con** [Diabetes Care. 2007]
  - ▶ **Evidence based paediatrics: Evidence based management of childhoc** [BMJ. 2001]
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- ▶ **Scaling up community-based obesity prevention in Aus** [BMC Public Health. 2010]
  - ▶ Primary prevention from the epidemiology perspective [BMC Med Res Methodol. 2010]
  - ▶ **The risks of not breastfeeding for mothers and infants.** [Rev Obstet Gynecol. 2009]
- » See all (26)...

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Scholar     Results 1 - 10 of about 466,000

[A systematic review of school-based smoking prevention trials with long-term follow-up](#)

[paho.org](#) [PDF]

SE Wiehe, MM Garrison, DA Christakis, BE Ebel ... - *Journal of Adolescent ...*, 2005 - Elsevier  
... Conclusions. Few studies have evaluated the long-term impact of school-based smoking prevention programs rigorously. Among the 8 programs that have follow-up data to age 18 or 12th grade, we found little to no evidence of long-term effectiveness. ...  
[Cited by 116](#) - [Related articles](#) - [All 15 versions](#)

[Evidence-based guidelines for cardiovascular disease prevention in women 1](#)

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E Panel... - *Journal of the American College of Cardiology*, 2004 - Elsevier  
... Evidence-based guidelines for cardiovascular disease prevention in women 1. ... The objective of this collaborative effort was to develop the first set of evidence-based guidelines for the prevention of CVD in adult women with a broad range of cardiovascular risk. ...  
[Cited by 747](#) - [Related articles](#) - [BL Direct](#) - [All 22 versions](#)

[Hutchinson Smoking Prevention Project: long-term randomized trial in school-based tobacco use prevention—results on smoking](#)

[oxfordjournals.org](#) [HTML]

AV Peterson Jr, KA Kealey, SL Mann, ... - *JNCI Journal of the ...*, 2000 - [jnci.oxfordjournals.org](#)  
... Unfortunately, and consistent with previous randomized trials in school-based smoking prevention that have used the social-influences approach and that have followed children to grade 12, there is no evidence from the HSPP trial that a schoolbased social-influences ...  
[Cited by 253](#) - [Related articles](#) - [BL Direct](#) - [All 11 versions](#)

[School-based programmes for preventing smoking](#)

R Thomas, R Perera - *Cochrane Database Syst Rev*, 2006 - [mrw.interscience.wiley.com](#)  
... of smoking We identified 23 high quality randomized controlled trials of school-based programmes to ... There is little evidence that information alone is effective. ... children's smoking behaviour, the highest quality and longest trial (the Hutchinson Smoking Prevention Project) found ...  
[Cited by 212](#) - [Related articles](#) - [All 10 versions](#)

[Effective ingredients of school-based drug prevention programs:: A systematic review](#)

P Cuijpers - *Addictive Behaviors*, 2002 - Elsevier  
... describe general quality criteria that are not based on scientific evidence but on ... policymakers, and prevention scientists in the improvement of school-based drug prevention ... Smoking prevention among urban minority youth: assessing effects on outcome and mediating variables ...  
[Cited by 155](#) - [Related articles](#) - [All 6 versions](#)

[HTML] [Evidence-based guidelines for cardiovascular disease prevention in women: 2007 update](#)

[onlinejacc.org](#) [HTML]

L Mosca, CL Banka, EJ Benjamin, K ... - *Journal of the ...*, 2007 - *Am Coll Cardio Found*  
... Hydroxymethylglutaryl-CoA reductase inhibitors in older persons with acute myocardial infarction: evidence for an age-statin interaction. *J Am Geriatr Soc.* ... Smoking Meta-Analyses. ... Clopidogrel and aspirin versus aspirin alone for the prevention of atherothrombotic events. ...  
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[Smoking cessation: evidence based recommendations for the healthcare system](#)

[bmj.com](#) [HTML]

M Raw, A McNeill, R West - *British Medical Journal*, 1999 - [bmi.com](#)

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	with the <b>exact phrase</b>	<input type="text"/>
	with <b>at least one</b> of the words	<input type="text" value="schools"/>
	<b>without</b> the words	<input type="text" value="alcohol"/>
	where my words occur	<input type="text" value="anywhere in the article"/>

<b>Author</b>	Return articles written by	<input type="text"/>
		e.g., "PJ Hayes" or McCarthy

<b>Publication</b>	Return articles published in	<input type="text"/>
		e.g., J Biol Chem or Nature

<b>Date</b>	Return articles published between	<input type="text"/> — <input type="text"/>
		e.g., 1996

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<http://www.cdc.gov/nchs/>

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- National Death Index
- NCHS Survey Measures Catalog
- NHANES Tutorial
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- VitalStats

### What's New!

**Design and Operation of the National Survey of Adoptive Parents of Children with Special Health Care Needs, 2008**

[PDF - 920 KB]

**One in Four American Homes Has Only Wireless Telephones** New data from the July-December 2009 National Health Interview Survey.

**Preterm Birth Rates Have Declined in 35 States Since 2006** After a long period of steady increase, the U.S. preterm birth rate declined for the second straight year in 2008.

**Provisional Vital Statistics for August 2009 Released** Births, Marriages, Divorces, and Deaths: Provisional Data for August 2009.

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Information about ongoing health services research and public health projects

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Examples: asthma; "long term care"

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Information about research [datasets](#) and [instruments/indices](#) employed in [Health Services Research, Behavioral and Social Sciences](#) and [Public Health](#) with links to PubMed.

# Health services/technology assessment text:

<http://www.ncbi.nlm.nih.gov/bookshelf/br.fcgi?book=hstatcollect>



## Health Services/Technology Assessment Text (HSTAT)

National Library of Medicine

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Welcome to this free, Web-based resource of full-text documents that provide health information and support health-care decision making.



### Evidence Reports ▼

Includes evidence-based reviews from the Agency for Healthcare Research and Quality (AHRQ)



### Protocols ▼

Includes protocols from the Substance Abuse and Mental Health Services Administration (SAMHSA)



### Preventive Medicine ▼

Includes recommendations from the U.S. Preventive Service Task Force Service (USPSTF)



### Consensus Reports ▼

Includes reports from the NIH Consensus Development Program



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Archived guidelines and reports

### What's New?

Addressing Suicidal Thoughts and Behaviors in Substance Abuse Treatment »

Incorporating Alcohol Pharmacotherapies Into Medical Practice »

Managing Depressive Symptoms in Substance Abuse Clients During Early Recovery »

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Search for:

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 Protocols  Preventive Medicine  Archives

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Clear

# Health disparities & minority health information resources: [http://www.nlm.nih.gov/services/health\\_disparities.html](http://www.nlm.nih.gov/services/health_disparities.html)



## MEDLINE/PubMed Search and Health Disparities & Minority Health Information Resources

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See the [details](#) of the search strategy.

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I

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- [National Library of Medicine Strategic Plan for Addressing Health Disparities 2004-2008](http://www.nlm.nih.gov/pubs/plan/nlm_health_disp_2004_2008.html)  
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- [MedlinePlus® : Health Disparities](http://www.nlm.nih.gov/medlineplus/healthdisparities.html)  
<http://www.nlm.nih.gov/medlineplus/healthdisparities.html>
- [MedlinePlus: African-American Health](http://www.nlm.nih.gov/medlineplus/africanamericanhealth.html)  
<http://www.nlm.nih.gov/medlineplus/africanamericanhealth.html>

# ERIC (Educational Resources Information Center)

- Access (free)
  - <http://www.eric.ed.gov/>
  - Also available through multiple vendors
- Coverage:
  - The database contains more than 1.3 million abstracts of education-related documents and journal articles from 1966 onwards.
  - Linked full-text to grey literature (reports, documents, etc...)

# ERIC Sample Search

[Submit Content](#) | [Contact Us](#) | [Help](#)



Education Resources Information Center



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## Advanced Search

[Help With This Page](#)

Use My Clipboard to print, email, export, and save records. [0 items in My Clipboard](#)

[Basic Search](#) | [Advanced Search](#) | [Search the Thesaurus](#)

**Search for:** Keywords (all fields) aids  
AND Keywords (all fields) health education  
AND Keywords (all fields) evidence-based

[Add Another Row](#)

**Full-Text Availability:**  Show only results with free full text directly from ERIC

**Publication Date:** From 2000 to 2010

**Publication Type(s):**

- Any Publication Type
- Journal Articles
- Book/Product Reviews
- Books
- Collected Works - General

**Education Level(s):**

- Any Education Level
- Adult Basic Education
- Adult Education
- Early Childhood Education
- Elementary Education

### Search Tips

- ✦ To search for a journal name, select the Source field.
- ✦ Use quotation marks around a phrase to find an exact match.
- ✦ For an exact match of an author name, use the format "Last name, First name"

# ERIC Search Results

5. [Exploring Implementation and Fidelity of Evidence-Based Behavioral Interventions for HIV Prevention: Lessons Learned from the Focus on Kids Diffusion Case Study](#) (EJ841441)



**Author(s):** [Galbraith, Jennifer S.](#); [Stanton, Bonita](#); [Boekeloo, Bradley](#); [King, Winifred](#); [Desmond, Sharon](#); [Howard, Donna](#); [Black, Maureen M.](#); [Carey, James W.](#)

**Pub Date:** 2009-00-00

**Pub Type(s):** [Journal Articles](#); Reports - Research

**Peer-Reviewed:** Yes

**Source:** Health [Education](#) & Behavior, v36 n3 p532-549 2009

**Descriptors:**

[Acquired Immunodeficiency Syndrome \(AIDS\)](#); [Intervention](#); [Prevention](#); [Sexually Transmitted Diseases](#); [Public Health](#); [Telephone Surveys](#); [Technical Assistance](#); [Case Studies](#); [Health Education](#)

**Abstract:**

[Evidence-based](#) interventions (EBIs) are used in public health to prevent HIV infection among youth and other groups. EBIs include core elements, features that are thought to be responsible for the efficacy of interventions. The authors evaluate experiences of organizations that adopted an HIV-prevention EBI, Focus on Kids (FOK), and their fidelity to the intervention's eight core elements. A cross-sectional telephone survey was administered to 34 staff members from organizations that had previously implemented FOK. Questions assessed how the organization adhered to, adapted, dropped, or altered the intervention. None of the organizations implemented all eight core elements. This study underscores the importance for HIV intervention researchers to clearly identify and describe core elements. More effort is needed to reflect the constraints practitioners face in nonresearch settings. To ensure intervention effectiveness, additional research and technical assistance are needed to help organizations implement HIV prevention EBIs with fidelity. (Contains 3 tables.) [Hide Full Abstract](#)

**Related Items:** [Show Related Items](#)

**Full-Text Availability Options:**

[Help Finding Full Text](#) | [Find in a Library](#) | [Publisher's Web Site](#)



# National Criminal Justice Reference Service Abstracts & Full-Text

- Access (free)  
<http://www.ncjrs.gov/App/AbstractDB/AbstractDBSearch.aspx>
  - Also available through multiple vendors
- Coverage
  - National Criminal Justice Reference Service Abstracts Database contains summaries of more than 205,000 criminal justice publications from 1970 to the present. The Full-Text Virtual Library contains 7,000+ full-text publications. Approximately 450 documents are added each month.

# NCJRS Sample Search

- Topics
- A-Z Topics
  - Corrections
  - Courts
  - Crime
  - Crime Prevention
  - Drugs
  - Justice System
  - Juvenile Justice
  - Law Enforcement
  - Victims

[Home](#) / [Library/Abstracts](#)

## LIBRARY/ABSTRACTS

### Search the NCJRS Abstracts Database

The NCJRS Abstracts Database contains summaries of the more than 200,000 criminal justice, juvenile justice, and substance abuse resources housed in the NCJRS Library collection.

Choose a search type  All  Any  Phrase and enter your search below

[Title](#)

[Author](#)

[Journal Name](#)

[NCJ Number](#)  
*Numbers Only*

[General Search](#)

[Language](#)

[Date Range](#)  -

Start Date

End Date


(Enter date as mm/yyyy  
for example: 10/2002.)

[Advanced Thesaurus Search](#)

[Abstracts Database Tutorial/Help](#)

[View Latest Additions](#)

# NCJRS Search Results

 **NCJRS**  
National Criminal Justice Reference Service  
Administered by the Office of Justice Programs,  
U.S. Department of Justice

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Topics

- A-Z Topics
- Corrections
- Courts
- Crime
- Crime Prevention
- Drugs
- Justice System
- Juvenile Justice
- Law Enforcement
- Victims

[Home](#) / [Library/Abstracts](#)

## LIBRARY/ABSTRACTS

### Search Results

Your Search found **164** records.  
[How Results are Found and Displayed](#) [Abstracts Database Tutorial/Help](#)

Results sorted by relevancy

To download selected abstracts, check the box next to the item(s) and click the "Download" button located in the upper right corner of the page.

- 1. Local Responses to **Elder Abuse**: Building **Effective Prevention** Strategies (From Ageing, Crime and Society, P 139-153 (From Ageing, Crime and Society, P 139-153, 2006, Azrini Wahidin and Maureen Cain, eds. – See NCJ-216056)  
NCJ Number: 216064  
Author: Jill Manthorpe  
Publication Date: 2006  
[Abstract](#)
- 2. Determining **Effective** Interventions in a Community-Based **Elder Abuse** System, Final Report ..PDTR: Quinn, K M; Hwalek, M; Goodrich, C S  
NCJ Number: 154461  
Publication Date: 1993  
[Abstract](#)
- 3. Understanding Family Violence: Treating and Preventing Partner, Child, Sibling, and **Elder Abuse**  
NCJ Number: 182175  
Author: Vernon R. Wiehe  
Publication Date: 1998  
[Abstract](#)
- 4. TESTIMONY ON BEHALF OF THE NATIONAL COMMITTEE FOR THE **PREVENTION** OF **ELDER ABUSE** BEFORE THE U.S. HOUSE SELECT COMMITTEE ON AGING, SUBCOMMITTEE ON HUMAN SERVICES  
NCJ Number: 145400  
Author: R S Wolf  
Journal: *Journal of Elder Abuse and Neglect* Volume:3 Issue:4 Dated:(1991) Pages:87-99  
Publication Date: 1991  
[Abstract](#)

# POPLINE

- Access (free)
- <http://www.popline.org/>
  - Also available through multiple vendors
- Coverage
  - 370,000+ citations to scientific articles, reports, books, and unpublished reports in population, family planning, & related issues.
  - References as old as 1827, but mostly 1950 to present

# Popline Sample Search



Your connection to the world's reproductive health literature

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POPLINE® was updated on May 3, 2010 with 226 records.

BOOK-MARK

## Search Tips

Use & (and) between terms; finds records with all the terms

Use / (or) between terms; finds records with any one of the terms

Use ! (not) before a word; finds all records without that word

Type \* (truncation) after part of a word; finds all records with words that start the same way

[Keyword Guide](#)  
[Using Boolean Operators](#)  
[Advanced Search](#)  
[Document Delivery Policy](#)  
[Contribute to POPLINE®](#)  
[Links to full-text](#)  
[Peer Reviewed Journals](#)  
[POPLINE Disclaimer](#)

## Haiti Relief Toolkit: Essential Knowledge and Resources for Relief Efforts



In an effort to assist the thousands of aid workers in Haiti responding to the aftermath of the January earthquake, K4Health has initiated the development of the [Haiti Relief Toolkit](#) which provides international and local relief workers with access to a technical resource package of key tools and materials from leading organizations.

Enter words or phrases in the boxes below. Then click the Search button. If searching more than one concept, separate with '&' for AND; '/' for OR.

**Example: adolescent\* & contraception**

### SUBJECT:

drug-resistant tuberculosis & guidelines

### AUTHOR:

Check the box to search only peer reviewed journals.

Results Per Page: 50

SEARCH CLEAR ?

Use [Advanced Search](#) to build more targeted searches

To watch the [POPLINE Search Tutorial](#) click here

## 2009 Photoshare Photo Contest Winners

Photo by Indian Photographer Honored in 6th Annual Photoshare Photo Contest Sponsored By Hopkins' Knowledge for Health (K4Health) Project



A strong portrait of a bed net covered child affected by malaria won 1st Place/Best of Show at the 6th Annual Photoshare Photo Contest.

Somenath Mukhopadhyay submitted the winning photo in the competition hosted by the Knowledge for Health project (K4Health) at

## Instant Searches

Results limited to records added in last 5 years.

[Adolescent Pregnancy](#)  
[Adolescents & Reproductive Health](#)  
[Advocacy](#)  
[Age at First Intercourse](#)  
[AIDS and Men](#)  
[AIDS and Women](#)  
[Antiretroviral Therapy](#)  
[Behavior Change](#)  
[Breastfeeding](#)  
[Condoms](#)  
[Contraceptive Security](#)  
[Disaster Relief](#) See: [Haiti Relief Toolkit](#)  
[Entertainment Education](#)  
[Faith-based Initiatives](#)  
[Family Planning Logistics](#)  
[Family Planning Methods](#)  
[Female Condom](#)  
[Female Genital Cutting](#)  
[Gender and Development](#)  
[HIV/AIDS Prevention](#)  
[HIV/FP Integration](#) See: [FP/HIV Integration Toolkit](#)  
[IEC](#)  
[Injectables](#) See: [K4Health Injectables Toolkit](#)  
[Implants](#)  
[Interpersonal Communication & Counseling](#)  
[IUDs](#) See: [K4Health IUD Toolkit](#)  
[Malaria](#)  
[Male Circumcision](#)  
[Maternal and Neonatal Health](#)  
[Men & Family Planning](#)  
[Men as Partners](#)  
[Microbicides](#)  
[Natural Family Planning](#)  
[Oral Contraceptives](#)  
[Orphans and Vulnerable Children](#)  
[Population and Environment](#)  
[PMTCT](#) See: [K4Health PMTCT Toolkit](#)  
[Quality of Care](#)  
[Reproductive Health Issues](#)  
[Safer Sex](#)  
[STDs](#)  
[TB and HIV](#)  
[Violence Against Women](#)

# Popline Search Results



Your connection to the world's reproductive health literature

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ShortRecordDisplay

Your search found 3 record(s).

[New Basic Search](#) | [New Advanced Search](#) | [POPLINE Document Delivery Policy](#)

1. [311779](#) [Click link to view full record]

Blondal K; Caminero JA; Cegielski P; Espinal MA; Jaramillo E.

**Instructions for applying to the Green Light Committee for access to second-line anti-tuberculosis drugs.** [Geneva, Switzerland], World Health Organization [WHO], 2006. 15 p. (WHO/HTM/TB/2006.369)

2. [312464](#) [Click link to view full record]

Rich M; Cegielski P; Jaramillo E; Lambregts K.

**Guidelines for the programmatic management of drug-resistant tuberculosis.** Geneva, Switzerland, World Health Organization [WHO], Stop TB Department, 2006. [184] p. (WHO/HTM/TB/2006.361)

3. [275117](#) [Click link to view full record]

Kabra SK; Lodha R; Seth V.

**Category based treatment of tuberculosis in children.** Indian Pediatrics. 2004 Sep 17; 41 :927-937.

# AGRICOLA

- Access (free) <http://agricola.nal.usda.gov/>
  - Also available through multiple vendors
- Coverage
  - AGRICOLA (**AGRIC**ultural **OnLine Access**) is a bibliographic database of citations to the agricultural literature created by the National Agricultural Library (NAL) and its cooperators. Database covers materials in all formats, including printed works from the 15th century. The records describe publications and resources encompassing all aspects of agriculture and allied disciplines, including food and human nutrition.
  - You may search the National Agricultural Library Catalog and Journals Database at the same time.

# Agricola



## Search NAL

- Search all USDA
- Advanced Search
- Search Tips

## Browse by Audience

Information for:

## Browse by Subject

- ▶ Animals and Livestock
- ▶ Education and Outreach
- ▶ Food and Nutrition
- ▶ History, Art and Biography
- ▶ Laws and Regulations
- ▶ Marketing and Trade
- ▶ Natural Resources and Environment
- ▶ Plants and Crops
- ▶ Research and Technology
- ▶ Rural and Community Development

You are here: [Home](#) / [NAL Catalog](#)

## NAL Catalog

The NAL Catalog (AGRICOLA) provides citations to agricultural literature.

*Log in here before requesting materials*

**Quick Searches:** (enter single word or phrase)

### Books

(Includes books, serials, audiovisuals, and other resources)

[Keyword Search](#) / [Basic Search](#) / [Advanced Search](#)

### Articles

(Includes journal articles, book chapters, short reports, reprints)

[Keyword Search](#) / [Basic Search](#) / [Advanced Search](#)

Last Modified: Oct 30, 2009

## I Want To...

- Ask a Question
- Search Both Databases at Once
- Request Library Materials
- Find AGRICOLA Help Information



## Note for Users of Internet Explorer 6

The NAL Catalog (AGRICOLA) shows some character display problems in this browser.

## NAL Catalog

- Quick Find Topics
- NAL Catalog (AGRICOLA)
  - About AGRICOLA
  - AGRICOLA Help
- Journals Indexed in AGRICOLA

## See Also

- NAL Thesaurus
- Collection Policies



# Agricola



## Search NAL

Go

- Search all USDA
- Advanced Search
- Search Tips

## Browse by Audience

Information for...

## Browse by Subject

- Animals and Livestock
- Education and Outreach
- Food and Nutrition**
- History, Art and Biography
- Laws and Regulations
- Marketing and Trade
- Natural Resources and Environment
- Plants and Crops
- Research and Technology
- Rural and Community Development

You are here: Home / Food and Nutrition

Printable Page

## Food and Nutrition

### Spotlights



#### Food and Nutrition Information Center

A leader in food and human nutrition information dissemination since 1971. Provides credible, accurate, and practical resources for nutrition and health professionals, educators, government personnel and consumers.



#### Food Safety Information Center

The Food Safety Information Center (FSIC) specializes in providing food safety information to educators, industry, researchers and the general public. Using technology, the FSIC staff develop solutions that disseminate information on a variety of food safety topics.



#### USDA Nutrient Data Laboratory (NDL)

USDA. *Agricultural Research Service.* Home page for NDL, responsible for developing USDA's National Nutrient Database for Standard Reference, the foundation of most food and nutrition databases in the US, used in food policy, research and nutrition monitoring.



#### Nutrition.gov

USDA. *National Agricultural Library.* Nutrition.gov provides easy access to the best food and nutrition information from across the federal government. It serves as a gateway to reliable information on nutrition, healthy eating, physical activity, and food safety for consumers, educators and health professionals.



#### Office of Dietary Supplements

DHHS. *National Institutes of Health.* The mission of ODS is to strengthen knowledge and understanding of dietary supplements by evaluating scientific information, stimulating and supporting research, disseminating research results, and educating the public to foster an enhanced quality of life and health for the U.S. population.

### I Want To...

- Ask a Question
- Calculate Body Mass Index (BMI)
- Find Avian Influenza Information
- Look up Calories or Nutrients in a Food
- Search for Educational Materials

### Food and Nutrition

- Consumer Food Safety
- Dietary Health and Guidelines
- Dietary Supplements
- Education and Training
- Food and Nutrition Assistance
- Food Biosecurity
- Food Industry
- Nutrient Composition of Foods
- Research Reports and Studies
- Shopping, Cooking and Meal Planning

### See Also

- Center for Food Safety and Applied Nutrition

# TOXNET

- Access (free) <http://toxnet.nlm.nih.gov/>
  - Some of the databases are available from vendors
- Coverage
  - Database descriptions at <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?ToxNetDBDesc.htm>
  - Search all at once or multi-database search includes
    - Hazardous Substances Data Bank (HSDB), Integrated Risk Information System (IRIS), Chemical Carcinogenesis Research Information (CCRIS), and Genetic Toxicology (GENE-TOX).

# TOXNET Sample Search



United States  
National Library  
of Medicine

**TOXNET**  
Toxicology Data Network



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

▶ Env. Health & Toxicology ▶ TOXNET

**TOXNET** - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases.

**Select Database**

- ChemIDplus [?](#)
- HSDB [?](#)
- TOXLINE [?](#)
- CCRIS [?](#)
- DART [?](#)
- GENETOX [?](#)
- IRIS [?](#)
- ITER [?](#)
- LactMed [?](#)
- Multi-Database [?](#)
- TRI [?](#)
- Haz-Map [?](#)
- Household Products [?](#)
- TOXMAP [?](#)

**Additional Resource**

- CPDB [?](#)

**Env. Health & Toxicology**



**Portal to environmental health and toxicology resources.**

[VISIT SITE](#)

**Support Pages**

- ▶ Help
- ▶ TOXNET FAQ
- ▶ TOXNET Update Status
- ▶ Fact Sheet
- ▶ Database Description

**Search All Databases**

(e.g. asthma air pollution, ibuprofen fever, vinyl chloride)

**References from Biomedical Literature**

TOXLINE	Toxicology Literature Online	20
DART	Developmental Toxicology Literature	0

**Chemical, Toxicological, and Environmental Health Data**

ChemIDplus	Chemical Identification/Dictionary	1
HSDB	Hazardous Substances Data Bank	329
CCRIS	Chemical Carcinogenesis Information	0
CPDB	Carcinogenic Potency Database	0
GENETOX	Genetic Toxicology Data	0
IRIS	Integrated Risk Information	0
ITER	International Toxicity Estimates for Risk	0
LactMed	Drugs and Lactation Database	0
TRI	Toxics Release Inventory	0
TOXMAP	Environmental Health e-Maps	0
Haz-Map	Occupational Exposure/Toxicology	0
Household Products	Health & Safety Information on Household Products	0

# TOXNET Search Results

- Save Checked Items
- Sort
- Details
- History
- Download Details
- History
- Download Details
- History
- Download Details
- History
- Download Details
- History
- Download Details
- History
- Download Details
- History
- Download Details



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## TOXLINE Search Results

▶ [Env. Health & Toxicology](#) ▶ [TOXNET](#) ▶ [TOXLINE](#)

Search

Clear

Limits

Print this page

Search tips

Find full text

Items 1 through 20 of 114

Pages: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) ▶

records are sorted in [relevancy ranked](#) order and **not by date**.  
Click on **Sort** to change the order of the retrieved records.

Select Record	record
1 <input type="checkbox"/>	<a href="#">The Use of Antidotes in the Emergency Treatment of Cyanide Poisoning.</a> Thompson JP J Toxicol Clin Toxicol 2004;42(4):411-2 [MTGABS]
2 <input type="checkbox"/>	<a href="#">Enhancing public health preparedness for a terrorist attack involving cyanide.</a> Eckstein M J Emerg Med. 2008, Jul; 35(1):59-65. [The Journal of emergency medicine] [PubMed] <a href="#">PubMed Citation</a>
3 <input type="checkbox"/>	<a href="#">Cyanide poisoning and cardiac disorders: 161 cases.</a> Fortin JL; Desmettre T; Manzon C; Judic-Peureux V; Peugeot-Mortier C; Giocanti JP; Hachelaf M; Grangeon M; Hostalek U; Crouzet J; Capellier G J Emerg Med. 2010, May; 38(4):467-76. [The Journal of emergency medicine] [PubMed] <a href="#">PubMed Citation</a>
4 <input type="checkbox"/>	<a href="#">Treatment of Cyanide Poisoning in an Industrial Setting</a> Wurzburg H Veterinary and Human Toxicology, Vol. 38, No. 1, pages 44-47, 11 references, 1996 [NIOSH]
5 <input type="checkbox"/>	<a href="#">Rapid On-Site Cyanide Assay for Blood and Saliva Samples</a> GOODRIDGE CF Crisp Data Base National Institutes of Health [CRISP]
6 <input type="checkbox"/>	<a href="#">A case of cyanide poisoning and the use of arterial blood gas analysis to direct therapy.</a> Holstege CP; Forrester JD; Borek HA; Lawrence DT Hosp Pract (Minneap). 2010, Nov; 38(4):69-74. [Hospital practice (1995)] [PubMed] <a href="#">PubMed Citation</a>

# Toxmap



## TOXMAP Environmental Health e-Maps

- Home
- TRI Facilities
- TRI Releases
- TRI Trends
- Superfund
- Combo
- Search
- Help
- Contact Us
- Welcome
- News
- Accessibility
- Fact Sheet
- For Teachers
- Tour
- About
- Site Map

### Quick Search

Select Dataset(s):

- TRI  Superfund NPL

Chemical Name

City

State ZIP [Lookup]

Search Clear

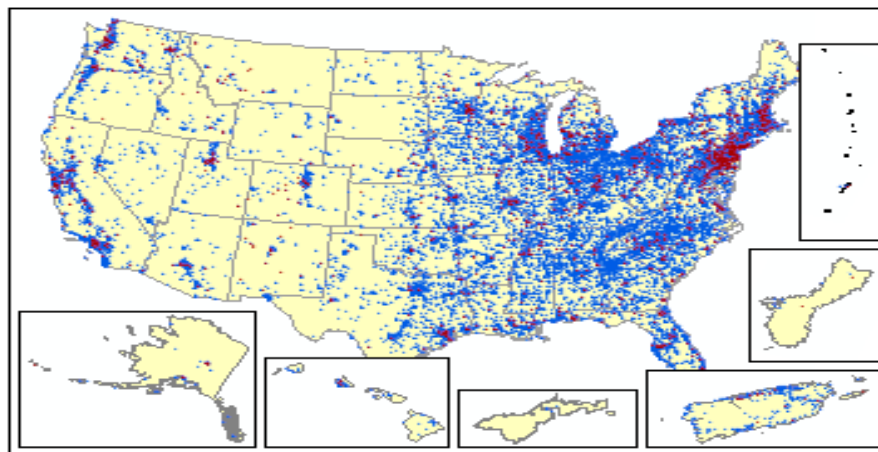
Choose a region...

More search options...

Search TOXNET TRI

### Use Quick Search or click on a map

to explore on-site toxic releases and hazardous waste sites from the [EPA's Toxics Release Inventory \(TRI\)](#) and the [Superfund National Priorities List \(NPL\)](#).



[TRI](#) facilities (blue) and [Superfund NPL](#) sites (red).

### Question of the Week

What's the single most important choice you make to reduce your impact on the environment?

- [TOXMAP now includes 2008 TRI data, ability to view search results in Google](#)
- [Try the TOXMAP Widget](#)
- [Try the TOXMAP Toolbar](#)
- [TOXMAP Brochure now available \(PDF, 2.07MB\)](#)

### Environmental News from EPA:

- [EPA Orders Tonawanda Coke Corp. to Clean Up Its Act; Company Ordered to Comply with Clean Air Act, Fix Wastewater Leaks, Stop Dumping Coal Tar Sludge; Comply with NY Air Plan](#)
- [Nation's Second-Largest Portland Cement Manufacturer to Add New Pollution Controls at](#)

- [? What is TOXMAP?](#)
- [? What is the Toxics Release Inventory \(TRI\)?](#)
- [? What is the "Superfund" Program? more...](#)

# Enviro-health links



United States  
**National Library of Medicine**  
National Institutes of Health

Search NLM Web Site

Go

[NLM Home](#) | [Contact NLM](#) | [Site Map](#) | [FAQs](#)

## Environmental Health and Toxicology

SIS Specialized Information Services



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[SIS Home](#) > [Environmental Health and Toxicology](#)

### Enviro-Health Links

Selected links to Internet resources on toxicology and environmental health issues of recent special interest

#### SELECTION CRITERIA

##### ▶ **American Indian Health**

An information portal to issues affecting the health and well-being of American Indians in the United States

##### ▶ **Arctic Health**

An information portal to issues affecting the health and well-being of our planet's northern-most inhabitants

##### ▶ **Arsenic and Human Health**

A chemical toxic to humans and found in some everyday places and things

##### ▶ **Asian American Health Web Site**

An information portal to issues affecting the health and well-being of Asian Americans in the United States

##### ▶ **Biological Warfare**

Biological pathogens can be intentionally deployed to cause disease or death

#### Search TOXNET for:

- All TOXNET Databases
- TOXLINE
- HSDB
- Haz-Map
- ChemIDplus
- Household Products Database
- LactMed

**Search**

[TOXNET FAQs](#)

# Environmental health and toxicology



United States  
**National Library of Medicine**  
National Institutes of Health

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## Environmental Health and Toxicology SIS Specialized Information Services



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[SIS Home](#) >

### Topics

- ▶ [Chemicals and Drugs](#)
- ▶ [Diseases and the Environment](#)
- ▶ [Environmental Health](#)
- ▶ [Occupational Safety and Health](#)
- ▶ [Poisoning](#)
- ▶ [Risk Assessment and Regulations](#)
- ▶ [Toxicology](#)
- ▶ [Pesticide Exposure](#)

### Reference Tools

[A to Z List of Resources](#)  
[Calendar of Events](#)  
[Database Descriptions](#)  
[TOXNET Class Schedule and Workbook](#)  
[Fact Sheets](#)  
[FAQ List](#)

### Especially for

- ▶ [The Public](#)
- ▶ [Researchers/Scientists](#)
- ▶ [Health Professionals](#)
- ▶ [Students/Educators](#)
- ▶ [Emergency Responders](#)

### More to Explore

[Follow us on Twitter](#)  
[2009 H1N1 Flu \(Swine Flu\)](#)  
[ALTBIB - Alternatives to Animal Testing](#)  
[Dietary Supplements Labels Database](#)  
[DIRLINE®](#)

### TOXNET®

Collection of databases on hazardous chemicals, toxic releases, and environmental health

Search TOXNET for:

Search

Search a single database:

<a href="#">ChemIDplus</a>	<a href="#">HSDB</a>
<a href="#">CCRIS</a>	<a href="#">IRIS</a>
<a href="#">CPDB</a>	<a href="#">ITER</a>
<a href="#">DART</a>	<a href="#">LactMed</a>
<a href="#">GENE-TOX</a>	<a href="#">TOXLINE</a>
<a href="#">Haz-Map</a>	<a href="#">TOXMAP</a>
<a href="#">Household Products</a>	<a href="#">TRI</a>

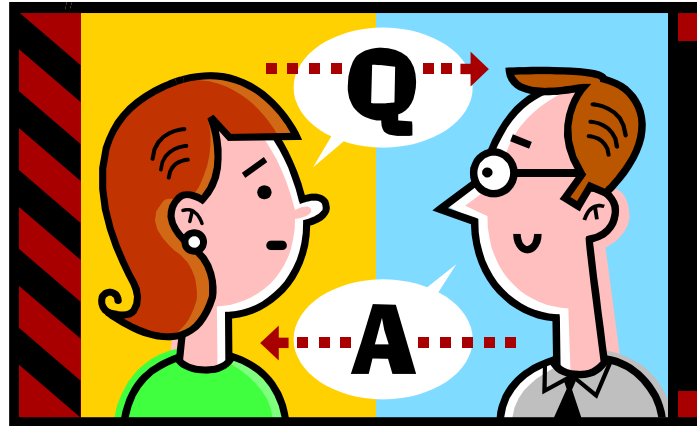
[TOXNET FAQs](#)

[TOXNET Class Schedule](#)

[Quick Tours](#)

# Practicing EBPH

Define the public health problem



Convert the information needs  
into focused questions



# Search and find the best evidence



Critically appraise the evidence  
for **relevance** and *validity*

# Objectives – Critical Appraisal I

By the end of this section, you should be able to...

- Pick out key information from unstructured and structured abstracts using the PICO model.
- Compare the population and intervention you wish to study with that addressed by the article using the PICO model to ascertain relevance.
- Identify the type of study described in two abstracts and suggest validity indicators

# Scenario – Knowledge Need

- You work at a district public health office and you are considering reaching out to the public in your area with an intervention to promote fruit and vegetable consumption for prevention of chronic diseases.
- Is there any evidence whether this approach could work?

# Introduction to PICO

The PICO framework can be used to structure your search question and appraise the relevance of results to your knowledge need.

**P** = Population, Problem, Patient

**I** = Intervention or Item of Interest

(program or treatment or screening test or exposure or prognostic factor)

**C** = Comparison or Control (if any)

**O** = Outcomes

# PICO for Scenario

- P = The public in an urban area at risk of chronic disease
- I = Promotion of fruit and vegetable consumption
- C = Standard practice/Existing promotions
- O = Participation in program (process evaluation);  
Increased fruit and vegetable consumption (outcome evaluation);  
Prevention of chronic disease (long-term outcome evaluation)

# Critical Appraisal

- Does the item address the question? [Are the population and intervention similar enough to be useful?]
- Is this item quality evidence?
- Always better to appraise full-text
- Realistically, most make the first cut by appraising the abstract (or executive summary)

# Structured Abstract Components

- Background or Objectives (also Context, Aim)
- Methods
  - More specifically: Design, Setting, Participants, Population, Intervention or Exposure, Main Outcome Measures
- Results (also Findings)
- Conclusions (also Interpretation)
  - Sometimes followed by Discussion or Limitations

# Paper with Unstructured Abstract

Baker AH, Wardle J.

Increasing fruit and vegetable intake among adults attending colorectal cancer screening; the efficacy of a brief tailored intervention.

Cancer Epidemiology Biomarkers and Prevention 2002  
Feb; 11(2): 203-206

Health Behavior Unit, Department of Epidemiology and Public Health, University College London, London, WC1E 6BT, United Kingdom.



# Unstructured Abstract

Fruits and vegetables appear to confer protection against several cancers, but most adults in the United Kingdom eat substantially less than the recommended amounts. Cancer screening services could provide a valuable context in which to provide advice on increasing fruit and vegetable intake. This study examined the efficacy of a brief, tailored, psycho-educational intervention for increasing fruit and vegetable intake, carried out in a cancer screening clinic. The study was a randomized, controlled trial. 742 participants, 55-64 years of age, recruited from three cancer screening clinics, completed a baseline questionnaire. They were assigned either to the tailored intervention group or to an untreated control group. The primary outcome measure was self-reported consumption of fruit and vegetables. At 6 week follow-up there were significant increases in daily servings of fruit and vegetables in the tailored intervention group (CI, 0.87-1.25) compared with the untreated group (CI, 0.08-0.43). These results support the efficacy of a simple, written message, which is tailored to the intake and knowledge levels of the individual, for modifying cancer-protective dietary behaviors, at least in the short term. They also suggest that cancer screening clinics may be a good context for providing this service.

# Unstructured Abstract

Fruits and vegetables appear to confer protection against several cancers, but most adults in the United Kingdom eat substantially less than the recommended amounts. Cancer screening services could provide a valuable context in which to provide advice on increasing fruit and vegetable intake. This study examined the efficacy of a brief, tailored, psycho-educational intervention for increasing fruit and vegetable intake, carried out in a cancer screening clinic. || The study was a randomized, controlled trial. 742 participants, 55-64 years of age, recruited from three cancer screening clinics, completed a baseline questionnaire. They were assigned either to the tailored intervention group or to an untreated control group. The primary outcome measure was self-reported consumption of fruit and vegetables. || At 6 week follow-up there were significant increases in daily servings of fruit and vegetables in the tailored intervention group (CI, 0.87-1.25) compared with the untreated group (CI, 0.08-0.43). || These results support the efficacy of a simple, written message, which is tailored to the intake and knowledge levels of the individual, for modifying cancer-protective dietary behaviors, at least in the short term. They also suggest that cancer screening clinics may be a good context for providing this service.

# PICO for this abstract

- P =
- I =
- C =
- O =

# Discussion Questions

- Does the paper PICO match your scenario PICO in terms of population and intervention and outcomes?
- What type of study is it?
- Is this intervention effective?
- What else have you learned from reading this abstract?
- Would you read this entire paper? Why or why not?

# Paper with Structured Abstract

Block G, Wakimoto P, Metz D, Fujii ML, Feldman N, Mandel R, Sutherland B.

A randomized trial of the Little by Little CD-ROM: demonstrated effectiveness in increasing fruit and vegetable intake in a low-income population.

Prev Chronic Dis. 2004 Jul;1(3):A08. Epub 2004 Jun 15.

Public Health Nutrition Program, School of Public Health, University of California, Berkeley 94720, USA. gblock@berkeley.edu

# Analyzing a Structured Abstract

- Look in key components for information
- Some information will not be presented in the abstract – decide whether to read on in the paper
- Background –
  - What is the setting for this study?
  - What is the rationale for the study?

# Background

**INTRODUCTION:** Research indicates that low fruit and vegetable intake is a risk factor for many chronic diseases. Despite large-scale education campaigns, the great majority of Americans do not consume recommended levels. We tested the ability of a single brief interactive experience of the Little by Little CD-ROM to increase fruit and vegetable intake in low-income women.

# Analyzing a Structured Abstract

- Methods –
  - What type of study is it?
  - Who participated in the study?
  - What was the intervention?
  - What outcomes were measured and how?
- Use the information from this section to create a PICO for this article
- Does the PICO sufficiently match your scenario? If not, stop here. It's not relevant to your question.



# Methods

- **METHODS:** A randomized placebo-controlled, parallel-group trial included 481 low-income, female participants: mean age 50.1 years, 48.4% African American, 51.6% non-Hispanic white, and 92.5% below 185% of the federally designated poverty level. Participants received one of three conditions: 1) a one-time experience with the Little by Little CD-ROM, 2) the Little by Little CD-ROM plus two reminder telephone calls, or 3) a stress management CD-ROM (control condition). We assessed baseline and follow-up dietary intake with a modified 24-hour recall.

# Analyzing a Structured Abstract

- Look in **Results** for information
- What percentage participated?
- Was the intervention effective?
- What types of analyses were done?
- Was follow-up sufficient?

# Results

- RESULTS: Two months after the one-time experience with the CD-ROMs, both intervention groups reported significantly higher intakes of fruits and vegetables than the control group. The Little by Little group with reminder calls increased daily intake by 1.32 fruits/vegetables, an 86% greater increase than the control group ( $P = .016$ ). The Little by Little group without reminder calls increased daily intake by 1.20 fruits/vegetables, a 69% greater increase than the control group ( $P = .052$ ). Significantly greater movement in Stage of Readiness for Change also occurred in the Little by Little groups compared with the control group.

# Analyzing a Structured Abstract

- Look in **Conclusions** for information
- Were all important outcomes considered?
- Are the likely intervention benefits worth the potential harms and costs?

# Conclusions

- **CONCLUSION:** The Little by Little CD-ROM may be useful in public health and clinical situations to increase fruit and vegetable intake.

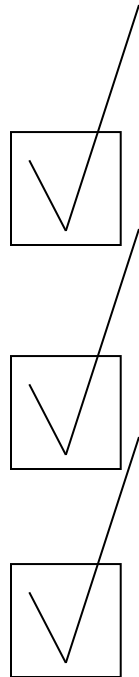
# Discussion Questions

- Did the paper PICO match your scenario PICO in terms of population and intervention and outcome?
- What could you tell about validity from the results?
- What have you learned from reading this abstract?
- Would you read this entire paper? Why or why not?

# Objectives

Are you able to...

- Pick out key information from the main areas of an unstructured and a structured abstract using the PICO model.
- Identify the type of study described in abstracts
- Use the PICO model to compare the population and intervention and outcomes you are interested in with those reported in an article.



Questions or Comments?

Later in this workshop we will  
analyze an entire paper.



# Sample Case Exercise

- The Health Promotion-Disease Prevention division is working with community-based organizations to reduce smoking in the 50+ population. All sorts of interventions have been proposed, some general and some targeted. A smoke free public places law is starting on the books this fall since those have been generally successful nationwide. Is there evidence that law would be sufficient to reduce older adult smoking?

# Background Questions

- General (things you need to know):
  - How much smoking by older adults is done in public places as opposed to homes, etc.?
- Location/agency-specific
  - What is your current prevalence of smokers aged 50+?

# PICO the Case

- **P (Population or Patient or Problem):** smokers over age 50
- **I (Intervention or Test or Prognostic Factor or Risk Factor):** smoke free law
- **C (Comparison, if one):** no smoke free law
- **O (Outcome(s)):** reduction in smoking overall by this population

# Searchable Foreground?

- Using the PICO to create a searchable question along the lines of the following:
- In the **Patient Population with this Problem**, does the **Intervention** more than the **Comparison** (if any) result in the **Outcomes**.
- *In older adult (50+) smokers, will smoke-free laws reduce smoking?*

# Identify Database(s) and Terms

- Browse list of databases and suggest at least three possibilities.
- What terms will you use? Why?
- Let's search one of the free databases together.

# CASE STUDIES/SAMPLE SEARCHES

- Form groups of 2 or 3 members.
- Select one case study question (have alternates in case your choice is taken by another group).
- Task: prepare and present an analysis of the information needed using the worksheet.
- Your group will have \_\_\_\_\_ minutes to collaborate on completing the worksheet.

# Together you will:

- Formulate background questions
- Break the case into the PICO model
- Generate a searchable foreground question
- For that foreground question, you will:
  - Identify a few relevant resources/databases
  - Suggest search terms
  - Choose one of the databases available at the session in which to execute a strategy
  - Execute the strategy and locate relevant content

# FEEDBACK

- Each group will share its investigation with the class
- Sharing will include demonstrating one resource searched even if not successful
- Class will provide other suggestions to group
- At the end of the class, participants will receive a handout with sample strategies and teaching points for all the case studies.



**BREAK**

# Resources – Part II

- Evidence-Based Practice for Public Health Website
  - Guide to Community Preventive Services
  - National Guideline Clearinghouse
  - Health-Evidence.ca
  - Model Practice Database
  - Public health databases and journals
- PHPartners.org – Public Health Web Portal
  - Reports and other publications
  - Health data and statistics
  - Health legislation and policy
  - Conference proceedings and abstracts

# Evidence-Based Practice for Public Health Website

<http://library.umassmed.edu/ebpph>

Saturday, April 24, 2010

Google™ Custom Search

Helping you find and use the best evidence

## Evidence-Based Practice for Public Health

### The Pathway to Evidence-Based Resources

#### Evidence-Based Guidelines

Evidence-based public health guidelines based on systematic reviews of the research literature.

#### Systematic Reviews

Systematic reviews and meta-analyses of the public health literature.

#### Pre-Formulated and Filtered Searches of Published Studies

Specialized searches of PubMed/MEDLINE on specific health topics or type of research study.

#### Best Practices

Public health programs, interventions, and policies used by others that have been evaluated and shown to be successful.

### Other Resources

#### [Public Health Journals](#)

#### [Public Health Databases](#)

#### [Knowledge Domains of Public Health](#)

### About Evidence-Based Practice for Public Health

Evidence-based practice for public health involves using the best available evidence to make informed public health practice decisions. This website provides free online access to evidence-based public health (EBPH) resources, [knowledge domains of public health](#), and public health [journals](#) and [databases](#). The resources are arranged along a pathway of evidence to allow public health practitioners to easily find and use the best evidence to develop and implement effective interventions, programs, and policies.

[Learn more...](#)



**Lamar Soutter Library**

*A Legacy of Service and Learning*



# Pathway to Evidence-Based Resources

Helping you find and use the best evidence

## *Evidence-Based Practice for Public Health*

Home

Evidence-Based Resources

Public Health Journals

Public Health Databases

About

### The Pathway to Evidence-Based Resources



#### Evidence-Based Guidelines

Evidence-based guidelines based on a systematic review of the research literature. The guidelines provide summaries of evidence and recommendations for practice from government agencies, professional organizations, and convening expert panels.

#### Systematic Reviews

Systematic reviews and meta-analyses of the literature that use specific methods and criteria to locate, appraise, and synthesize the evidence from research studies. The reviews uncover the strengths and weaknesses of the evidence and identify gaps in current research.

#### Pre-Formulated and Filtered Searches of Published Studies

Specialized searches of PubMed/MEDLINE on specific public health topics or limited to studies that correspond to a specific research category.

#### Best Practices

Public health programs, interventions, and policies that through experience have been evaluated, shown to be successful, and have the potential to be adapted and transformed by others working in the same field.



# Guide to Community Preventive Services

- Resource type: Evidence-Based Guidelines
- Access (free): <http://www.thecommunityguide.org>
- Coverage:
  - Evidence-based recommendations for specific population-based health interventions
  - Based on a systematic reviews of more than 200 interventions
  - Includes recommendations and summaries, full-text systematic reviews, and supporting materials
- Produced by:
  - Task Force of Community Preventive Services & CDC



SEARCH

## What is the Community Guide?

The Guide to Community Preventive Services is a free resource to help you choose programs and policies to improve health and prevent disease in your community. Systematic reviews are used to answer these questions:

- Which program and policy interventions have been proven effective?
- Are there effective interventions that are right for my community?
- What might effective interventions cost; what is the likely return on investment?

More than 200 interventions have been reviewed and the [Task Force on Community Preventive Services](#) has issued [recommendations](#) for their use. Learn more about the guide, our [systematic review methods](#), and the [Community Guide team](#).

### All Community Guide Topics

- Adolescent Health
- Alcohol
- Asthma
- Birth Defects
- Cancer
- Diabetes
- HIV/AIDS, STIs & Pregnancy
- Mental Health
- Motor Vehicle
- Nutrition
- **Obesity**
- Oral Health
- Physical Activity
- Social Environment
- Tobacco
- Vaccines
- Violence
- Worksite

### News & Announcements



#### Evidence-based Findings on Worksite Health Promotion Interventions

Evidence-based recommendations to assess health risks and reduce tobacco use are now available in a newly published Community Guide systematic review.

[More »](#)



#### Prompting Healthcare Providers Can Increase Cancer Screenings

Systems that inform healthcare providers when individual clients are due or overdue for specific tests can increase cancer screenings.

[More »](#)



#### Did You Know?

April is National Child Abuse Prevention Month. Learn about childhood home visitation programs to prevent violence.

[More »](#)

### Other Key Information

- [Tell others about the Community Guide](#)

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### [Task Force Meetings](#)

**2010**

February 17-18

June 16-17

October 20-21

**2011**

February 16-17

June 15-16

October 19-20



## Community Guide Topics

Adolescent Health

Alcohol

Asthma

Birth Defects

Cancer

Diabetes

HIV/AIDS, STIs and  
Pregnancy

Mental Health

Motor Vehicle

Nutrition

► Obesity

Provider-oriented

Interventions in  
community settings

Oral Health

Physical Activity

Social Environment

Tobacco

Vaccines

Violence

Worksite

[Community Guide Topics](#)

## Obesity Prevention



- Overweight and obesity have been shown to increase the likelihood of certain diseases and other health problems, and are important concerns for adults, children, and adolescents in the United States.
- An estimated 25.6 percent of adults in the United States reported being obese in 2007, an increase of nearly 2 percent since 2005 ([Behavioral Risk Factor Surveillance System](#)).
- Approximately 300,000 deaths per year may be attributable to obesity ([Office of the Surgeon General](#)).
- The economic cost of obesity in the United States was about \$117 billion in 2000 ([Office of the Surgeon General](#)).

## Community Guide Systematic Reviews

The Community Guide conducted systematic reviews of interventions in the following areas:

[Provider-oriented interventions \(e.g., education, reminders\)](#)

[Interventions in community settings \(e.g., reducing screen time, technology-based interventions, specific settings\)](#)

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**The Guide to Clinical Preventive Services**

Together, the Community Guide and the Clinical Guide provide evidence-based recommendations across the prevention spectrum.

[More »](#)

Contact Us:

# Obesity Prevention: Interventions in Community Settings



Reviewed interventions include programs designed to reduce screen time, technology-based strategies, and interventions specific to worksite and school settings.

## Task Force Recommendations & Findings

This table lists interventions reviewed by the Community Guide, with Task Force findings for each ([definitions of findings](#)). Click on an underlined intervention title for a summary of the review, and where available, [Research-tested Intervention Programs \(RTIPs\)](#).

<b>Interventions to reduce screen time (e.g., time in front of a TV, computer monitor)</b>	
<a href="#">Behavioral interventions to reduce screen time</a>	Recommended
<a href="#">Mass media interventions to reduce screen time</a>	Insufficient Evidence
<b>Technology-supported interventions (e.g., computer or web applications)</b>	
Multicomponent counseling or coaching to effect weight loss	Recommended
Multicomponent counseling or coaching to maintain weight loss	Recommended
<b>Interventions in specific settings</b>	
<a href="#">Worksite programs to control overweight and obesity</a>	Recommended
<a href="#">School-based programs to prevent overweight and obesity</a>	Insufficient Evidence



# Worksite Programs to Control Overweight and Obesity

Worksite nutrition and physical activity programs are designed to improve health-related behaviors and health outcomes. These programs can include one or more approaches to support behavioral change including informational and educational, behavioral and social, and policy and environmental strategies.

## Task Force Recommendations & Findings

The [Task Force on Community Preventive Services](#) [recommends](#) worksite programs intended to improve diet and/or physical activity behaviors based on strong evidence of their effectiveness for reducing weight among employees.

## About The Intervention


- Informational and educational strategies aim to increase knowledge about a healthy diet and physical activity. Examples include:
  - Lectures
  - Written materials (provided in print or online)
  - Educational software
- Behavioral and social strategies target the thoughts (e.g. awareness, self-efficacy) and social factors that effect behavior changes. Examples include:
  - Individual or group behavioral counseling
  - Skill-building activities such as cue control
  - Rewards or reinforcement
  - Inclusion of co-workers or family members to build support systems
- Policy and environmental approaches aim to make healthy choices easier and target the entire workforce by changing physical or organizational structures. Examples of this include:
  - Improving access to healthy foods (e.g. changing cafeteria options, vending machine content)
  - Providing more opportunities to be physically active (e.g. providing on-site facilities for exercise)
- Policy strategies may also change rules and procedures for employees such as health insurance benefits or costs or money for health club membership.

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## Contact Us:

 Community Guide Branch  
National Center for Health Marketing (NCHM)  
Centers for Disease Control and Prevention  
1600 Clifton Road NE  
Mailstop E-69  
Atlanta, GA 30333

 [Community Guide](#)

# The Effectiveness of Worksite Nutrition and Physical Activity Interventions for Controlling Employee Overweight and Obesity

## A Systematic Review

Laurie M. Anderson, PhD, MPH, Toby A. Quinn, MPA, Karen Glanz, PhD, MPH, Gilbert Ramirez, DrPH, Leila C. Kahwati, MD, MPH, Donna B. Johnson, PhD, Leigh Ramsey Buchanan, PhD, W. Roodly Archer, PhD, Sajal Chattopadhyay, PhD, Geetika P. Kalra, MPA, David L. Katz, MD, Task Force on Community Preventive Services

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### **Abstract:**

This report presents the results of a systematic review of the effectiveness of worksite nutrition and physical activity programs to promote healthy weight among employees. These results form the basis for the recommendation by the Task Force on Community Preventive Services on the use of these interventions. Weight-related outcomes, including weight in pounds or kilograms, BMI, and percentage body fat were used to assess effectiveness of these programs.

This review found that worksite nutrition and physical activity programs achieve modest improvements in employee weight status at the 6–12-month follow-up. A pooled effect estimate of  $-2.8$  pounds (95% CI =  $-4.6, -1.0$ ) was found based on nine RCTs, and a decrease in BMI of  $-0.5$  (95% CI =  $-0.8, -0.2$ ) was found based on six RCTs. The findings appear to be applicable to both male and female employees, across a range of worksite settings.

Most of the studies combined informational and behavioral strategies to influence diet and physical activity; fewer studies modified the work environment (e.g., cafeteria, exercise facilities) to promote healthy choices. Information about other effects, barriers to implementation, cost and cost effectiveness of interventions, and research gaps are also presented in this article. The findings of this systematic review can help inform decisions of employers, planners, researchers, and other public health decision makers.

(Am J Prev Med 2009;37(4):340–357) Published by Elsevier Inc. on behalf of American Journal of Preventive Medicine

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# CDC's LEAN Works! - A Workplace Obesity Prevention Program

## Step By Step

### ► Introduction

About CDC's LEAN Works!

Why

Plan

Build

Promote

Assess

### Additional Resources

Obesity Cost Calculator

Recommendations and Promising Practices

Tools Index

State Toolkits and Resources

Glossary

Site Map

References

Web Site Contributors

### Related Links

[Healthy Weight](#)

[Overweight and Obesity](#)

[Division of Nutrition, Physical Activity and Obesity](#)




LEADING EMPLOYEES TO ACTIVITY AND NUTRITION

In 2008, the annual healthcare cost of obesity in the US was estimated to be as high as 147 billion dollars a year.<sup>1</sup> The annual medical burden of obesity increased to 9.1 percent in 2006 compared to 6.5 percent in 1998.<sup>1</sup> Medical expenses for obese employees are estimated to be 42 percent higher than for a person with a healthy weight.<sup>1</sup> Workplace obesity prevention programs can be an effective way for employers to reduce obesity and lower their health care costs, lower absenteeism and increase employee productivity.

### What is the cost of obesity to your organization?

"CDC's LEAN Works! Leading Employees to Activity and Nutrition" is a **FREE** web-based resource that offers interactive tools and evidence-based resources to design effective worksite obesity prevention and control programs, including an obesity cost calculator to estimate how much obesity is costing your company and how much savings your company could reap with different workplace interventions.

Be the first to benefit! **Get started with CDC's LEAN Works! today by choosing one of the stages below.**

<a href="#">Why</a>	<a href="#">Plan</a>	<a href="#">Build</a>	<a href="#">Promote</a>	<a href="#">Assess</a>
 <p>Why should I create a program?</p>	 <p>Where should I begin?</p>	 <p>What program components and activities should I include?</p>	 <p>How do I maintain interest and motivation?</p>	 <p>Is my program working?</p>





# NICE Public Health Guidance

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- Resource type: Evidence-Based Guidelines
- Access (free):  
<http://www.nice.org.uk/Guidance/PHG/Published>
- Coverage:
  - Evidence-based recommendations to improve people's health and prevent illness and disease
  - Evidence of effectiveness and examples of best practice in relation to health and social care
  - Includes guidance documents, quick reference guides, and supporting materials
- Produced by:  
National Institute for Health and Clinical Excellence, UK

**NICE guidance by type**

- [Cancer service guidance](#)
- [Clinical guidelines](#)
- [Diagnostics guidance](#)
- [Interventional procedures](#)
- [Medical technologies guidance](#)
- ▶ [Public health guidance](#)
  - ▶ [Published public health guidance](#)
  - [Public health guidance in development](#)
  - [Stakeholder registration](#)

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[NICE guidance research recommendations](#)

[NICE guidance for patients](#)

[Patient safety solutions pilot](#)

[Quality standards](#)

## Published public health guidance

This table lists published NICE public health guidance. The list can be sorted by reference number, title (alphabetically), wave number, publication date and review date.

[More information on the published public health guidance list.](#)

[Other published NICE guidance with public health recommendations.](#)

### Published public health guidance

Results 1-20 of 32

1 2 ▶ [Show All](#)

Ref	Title	Wave	Date Issued
PH24	<a href="#">Alcohol-use disorders - preventing harmful drinking</a>		Jun 2010
PH6	<a href="#">Behaviour change</a>	11	Oct 2007
PH1	<a href="#">Brief interventions and referral for smoking cessation</a>	11	Mar 2006
PH9	<a href="#">Community engagement</a>	11	Feb 2008
PH2	<a href="#">Four commonly used methods to increase physical activity</a>	11	Mar 2006
PH15	<a href="#">Identifying and supporting people most at risk of dying prematurely</a>	12	Sep 2008
PH4	<a href="#">Interventions to reduce substance misuse among vulnerable young people</a>	11	Mar 2007
PH28	<a href="#">Looked-after children and young people</a>		Oct 2010
PH19	<a href="#">Management of long-term sickness and incapacity for work</a>	12	Mar 2009
PH11	<a href="#">Maternal and child nutrition</a>		Mar 2008
PH16	<a href="#">Mental wellbeing and older people</a>	12	Oct 2008
PH18	<a href="#">Needle and syringe programmes</a>	15	Feb 2009
PH8	<a href="#">Physical activity and the environment</a>	11	Jan 2008
PH14	<a href="#">Preventing the uptake of smoking by children and young people</a>	12	Jul 2008
PH30	<a href="#">Preventing unintentional injuries among under-15s in the home</a>		Nov 2010
PH31	<a href="#">Preventing unintentional road injuries among under-15s: road design</a>	18	Nov 2010


# **National Guideline Clearinghouse**

---

- Resource type: Database of Evidence-Based Guidelines
- Access (free): <http://www.guideline.gov/>
- Coverage:
  - Database of evidence-based practice guidelines from U.S. and international government agencies, professional societies, and private organizations
  - Structured, standardized abstracts
  - Guideline syntheses & expert commentaries
  - Links to full-text guidelines if available
- Produced by the Agency for Healthcare Research and Quality (AHRQ)



## Search

Results per page 20 

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- » [Treatment / Intervention](#)
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## Resources

- » [Annotated Bibliographies](#)
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- » [AHRQ Evidence Reports](#)

## Welcome!

You are connected to the National Guideline Clearinghouse™ (NGC), a public resource for evidence-based clinical practice guidelines. NGC is an initiative of the [Agency for Healthcare Research and Quality \(AHRQ\)](#), U.S. Department of Health and Human Services. NGC was originally created by AHRQ in partnership with the [American Medical Association](#) and the [American Association of Health Plans](#) (now America's Health Insurance Plans [AHIP]). Click on [About NGC](#) to learn more about us.

NGC offers [Syntheses](#) of selected guidelines that cover similar topic areas, and [Expert Commentary](#) on issues of interest and importance to the clinical guideline community.

Start your search by typing keywords into the search box on this page, or use the [NGC Browse](#) or [Detailed Search](#) features.



## NGC News

### What's New this Week

- **New Recommended Readings:** This [feature](#) provides users with brief annotations of relevant journal articles of interest to the measure and guideline communities.
- **New Expert Commentary:** [The Many Facets of Evidence: Commentary on the American Academy of Neurology's Evidence Classification Scheme.](#)



# Results – Breast cancer screening mammography

## Title

- [Breast cancer screening.](#) American College of Obstetricians and Gynecologists - Medical Specialty Society. 2003 Apr (reaffirmed 2006). 12 pages. NGC:003129

[Other Guidelines from this Developer](#)

- 
- [Management of breast cancer in women. A national clinical guideline.](#) Scottish Intercollegiate Guidelines Network - National Government Agency [Non-U.S.]. 1998 Oct (revised 2005 Dec). 50 pages. NGC:004745

[Other Guidelines from this Developer](#)

- 
- [1\) Screening for breast cancer: U.S. Preventive Services Task Force recommendation statement. 2\) December 2009 addendum.](#) U.S. Preventive Services Task Force - Independent Expert Panel. 1996 (revised 2009; addendum released 2009 Dec). 11 pages. NGC:007533

[Other Guidelines from this Developer](#)

- 
- [Screening mammography for women 40 to 49 years of age: a clinical practice guideline from the American College of Physicians.](#) American College of Physicians - Medical Specialty Society. 2007 Apr 3. 6 pages. NGC:005578

[Other Guidelines from this Developer](#)

- 
- [\(1\) ACS guidelines for breast cancer screening: update 2003. \(2\) American Cancer Society Guideline for breast screening with MRI as an adjunct to mammography \(2007\).](#) American Cancer Society - Disease Specific Society. 1997 (revised 2003; addendum released 2007 Mar). Original guideline: 29 pages; Addendum: 15 pages. NGC:006083

[Other Guidelines from this Developer](#)

# Health-Evidence.ca

- Resource type: Database of Systematic Reviews
- Access (free): <http://health-evidence.ca>
- Coverage:
  - Systematic reviews on the effectiveness of public health and health promotion interventions
  - Abstracts, summary statements, full-text if available
  - Tools for evidence-based practice
- Produced by:
  - Canadian Institutes of Health Research & McMaster University

# Systematic Reviews

Health-Evidence.ca

<http://health-evidence.ca>



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**Welcome!**

## New in Evidence-Informed Decision Making...

### Most accessed review this week

March 15, 2010

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



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-  [Camp](#)
-  [City/regional/provincial/state/national](#)
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## Population Characteristics

-  [Age Groups](#)
-  [Cultural Group](#)
-  [Family](#)
-  [First Nations and Inuit](#)
-  [Gender](#)
-  [General Public/All age groups](#)
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-  [Advocacy](#)
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**P:** children










**I:** school-based  
interventions

**C:** none

**O:** reduce or  
prevent obesity










Intervention Location





-  [Camp](#)
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Population Characteristics

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<a href="#"><u>The effectiveness of school-based interventions in promoting physical activity and fitness among children and youth: A systematic review (Report)</u></a>	Dobbins, M. et al.	2001	9 (strong)
<a href="#"><u>The effectiveness of school-based strategies for the primary prevention of obesity and for promoting physical activity and/or nutrition, the major modifiable risk factors for type 2 diabetes: A review of reviews (Report)</u></a>	Micucci, S. et al.	2002	9 (strong)

# School-based obesity prevention programs: An evidence-based review

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**Review Quality Rating: 10 (strong)** - [View Quality Assessment](#)

Publication Information						
Author(s)	Publication Date	Journal	Volume	Issue	Start Page	End Page
Kropski, J.A., Keckley, P.H., Jensen, G.L.	2008	Obesity	16	5	1009	1018

## Abstract:

**Objective:** This review seeks to examine the effectiveness of school-based programs for reducing childhood overweight or obesity. Methods and

**Procedures:** A systematic review of the research literature published since 1990 was conducted to identify experimental or quasi-experimental school-based curricular or environmental preventive interventions, with evaluation  $\geq 6$  months after baseline, which reported outcomes in terms of a measure of overweight.

**Results:** Fourteen studies were identified, including one involving a nutrition-only program, two physical activity promotion interventions and eleven studies combining nutrition and physical activity components. Most studies ( $n = 10$ ) offered weak (grade 2) quality evidence. One study offered strong (grade 4) evidence reducing the odds ratio for overweight in girls only, while four grade 2 studies reported significant improvements in BMI or at-risk-for overweight or overweight prevalence in boys, girls, or both. Twelve studies reported significant improvement in at least one measure of dietary intake, physical activity, and/or sedentary behavior.

**Discussion:** Our ability to draw strong conclusions as to the efficacy of school-based obesity prevention programs is limited by the small number of published studies and by methodological concerns. Qualitative analysis suggests programs grounded in social learning may be more appropriate for girls, while structural and environmental interventions enabling physical activity may be more effective for boys. High-quality evaluation protocols should be considered essential components of future programs.

**Address:** Vanderbilt Center for Evidence-based Medicine, Nashville, Tennessee, USA.

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## Behavior and Psychology

*Obesity* (2008) **16** 5, 1009–1018. doi:10.1038/oby.2008.29

### School-based Obesity Prevention Programs: An Evidence-based Review

Jonathan A. Kropski<sup>1</sup>, Paul H. Keckley<sup>1</sup> and Gordon L. Jensen<sup>2</sup>

<sup>1</sup>Vanderbilt Center for Evidence-based Medicine, Nashville, Tennessee, USA

<sup>2</sup>Department of Nutritional Sciences, Pennsylvania State University, University Park, Pennsylvania, USA

Correspondence: Gordon L. Jensen ([GLJ1@psu.edu](mailto:GLJ1@psu.edu))

Received 15 January 2007; Accepted 7 August 2007; Published online 28 February 2008.

#### Abstract

[Top](#)

**Objective:** This review seeks to examine the effectiveness of school-based programs for reducing childhood overweight or obesity.





**Methods and Procedures:** A systematic review of the research literature published since 1990 was conducted to identify experimental or quasi-experimental school-based curricular or environmental preventive interventions, with evaluation  $\geq 6$  months after baseline, which reported outcomes in terms of a measure of overweight.

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# Healthy People 2010 Information Access Project

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- Resource type: Pre-formulated PubMed searches
- Access (free): <http://phpartners.org/hp>
- Coverage:
  - Pre-formulated searches of PubMed on selected objectives of the 28 focus areas of Healthy People 2010
  - Links to relevant resources in MedlinePlus, the Guide to Community Preventive Services, and the Guide to Clinical Preventive Services.
- Produced by:
  - Partners in Information Access for the Public Health Workforce and the National Library of Medicine (NLM)



## Healthy People 2010 Information Access Project

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### Search by Focus Area

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



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- [Cancer](#)
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## Healthy People 2010 Information Access Project: Nutrition and Overweight

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### Nutrition and Overweight

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Reduce the proportion of adults who are obese. ([Objective 19-02](#))



Reduce the proportion of children and adolescents who are overweight or obese. ([Objective 19-03](#))



Increase the proportion of persons aged 2 years and older who consume at least two daily servings of fruit and 3 servings of vegetables. ([Objective 19-05](#)) ([Objective 19-06](#))



Increase the proportion of persons aged 2 years and older who consume less than 10 percent of calories from saturated fat. ([Objective 19-08](#))



Increase good dietary quality of meals and snacks at school. ([Objective 19-15](#))



Increase proportion of worksites offering nutrition/weight management classes or counseling. ([Objective 19-16](#))



Increase food security among U.S. Households. ([Objective 19-18](#))

### Related Resources

- [Counseling to Promote a Healthy Diet. Guide to Clinical Preventive Services, 3rd ed.](#)
- [Healthy People 2010 Midcourse Review: Nutrition and Overweight](#)
- [MedlinePlus - Child Nutrition](#) ( National Library of Medicine )

# Healthy People 2010 Chapter 19: Nutrition and Overweight

<http://phpartners.org/hp>

## 19-3. Reduce the proportion of children and adolescents who are overweight or obese.

### Target and baseline:

Objective	Reduction in Overweight or Obese Children and Adolescents*	1988–94 Baseline	2010 Target
		<i>Percent</i>	
<b>19-3a.</b>	Children aged 6 to 11 years	11	5
<b>19-3b.</b>	Adolescents aged 12 to 19 years	11	5
<b>19-3c.</b>	Children and adolescents aged 6 to 19 years	11	5

\*Defined as at or above the gender- and age-specific 95th percentile of BMI based on the revised CDC Growth Charts for the United States.

**Target setting method:** Better than the best.

**Data source:** National Health and Nutrition Examination Survey (NHANES), CDC, NCHS.

Children and Adolescents Aged 6 to 19 Years, 1988–94 (unless noted)	Overweight or Obese		
	19-3a. Children Aged 6 to 11 Years	19-3b. Adolescents Aged 12 to 19 Years	19-3c. Children and Adolescents Aged 6 to 19 Years
	Percent		
<b>TOTAL</b>	11	11	11

# Healthy People 2010 Information Access Project: Nutrition and Overweight

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## Nutrition and Overweight

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- [Healthy People 2010 Midcourse Review: Nutrition and Overweight](#)
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2. Schwartz RP.  
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3. Parks EP, Kumanyika S, Stettler N.  
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4. Razani N, Tester J.  
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- [Trends in prevalence of obesity and overweight among children enrolled in the New York State WIC program, 2002-2007.](#)  
5. Sekhobo JP, Edmunds LS, Reynolds DK, Dalenius K, Sharma A.  
Public Health Rep. 2010 Mar-Apr;125(2):218-24.  
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- ▶ Participant recruitment and retention in a pilot program to prevent we [BMC Public Health. 2009]
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```
((("obesity/prevention and control"[Mesh Terms] OR "body weight/prevention and control"[Mesh Terms] OR overweight[ti]) AND ("child"[MeSH Terms] OR "adolescent"[MeSH Terms]) AND ("health promotion"[MeSH Terms] OR "health education"[MeSH Terms] OR "health behavior"[MeSH Terms] OR "behavior therapy"[MeSH Terms])) OR (("obesity/diet therapy"[MAJR] OR "obesity/epidemiology"[MAJR]) AND ("diet, reducing"[MeSH Major Topic] OR "schools"[MeSH Major Topic]) AND ("health behavior"[MeSH Major Topic] OR practice guideline[pt]) AND ("child"[MeSH Terms] OR "adolescent"[MeSH Terms])) NOT ("asia"[MeSH
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Search

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### Result:

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### Translations:

Obesity/prevention and control[mh]	"obesity/prevention and control"[Mesh Terms]
Body weight/prevention and control[mh]	"body weight/prevention and control"[Mesh Terms]
Child[mh]	"child"[MeSH Terms]
Adolescent[mh]	"adolescent"[MeSH Terms]
Health Promotion[mh]	"health promotion"[MeSH Terms]
Health Education[mh]	"health education"[MeSH Terms]
Health Behavior[mh]	"health behavior"[MeSH Terms]
Behavior Therapy[mh]	"behavior therapy"[MeSH Terms]
Obesity/diet therapy[majr]	"obesity/diet therapy"[MAJR]
Obesity/epidemiology[majr]	"obesity/epidemiology"[MAJR]

# NACCHO Model Practice Database

- Resource type: Database of “best practices”
- Access (free):
  - <http://naccho.org/topics/modelpractices/database/>
- Coverage:
  - Database of model and promising practices for local public health practice
  - Areas covered include community health, chronic disease, emergency preparedness, environmental health, and infectious disease
- Produced by: National Association of County and City Health Officials (NACCHO)



# Model Practice Database

<http://naccho.org/topics/modelpractices/database/>

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2008	<a href="#">What about Mom?</a>	Pinellas County Health Department	FL	Model	<a href="#">Maternal and Child Health</a>
2008	<a href="#">WebEOC Utilization for Seasonal Influenza Reporting</a>	Dallas County Health and Human Services	TX	Promising	<a href="#">Emergency Preparedness</a>
2008	<a href="#">Using Games and Simulations for Preparedness and Response Training</a>	Chicago Department of Public Health	IL	Model	<a href="#">Emergency Preparedness</a>
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Saturday, April 24, 2010

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Evidence-based public health guidelines based on systematic reviews of the research literature.

#### Systematic Reviews

Systematic reviews and meta-analyses of the public health literature.

#### Pre-Formulated and Filtered Searches of Published Studies

Specialized searches of PubMed/MEDLINE on specific health topics or type of research study.

#### Best Practices

Public health programs, interventions, and policies used by others that have been evaluated and shown to be successful.

### Other Resources

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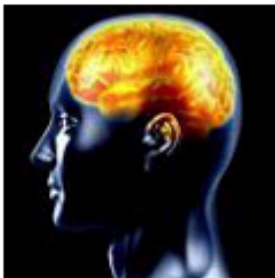
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**Volume 88, Number 4, April 2010, 241-320**

[Table of contents](#)

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- ▶ [Bioterrorism](#)
- ▶ [Dental Public Health](#)
- ▶ [Environmental Health](#)
- ▶ [HIV/AIDS](#)
- ▶ [How to Access Journal Articles](#)
- ▶ [Nutrition](#)
- ▶ [Public Health Genomics](#)
- ▶ [Veterinary Public Health](#)
- ▶ [Workforce Development](#)

### Main Topic Pages

- ▶ [Health Promotion and Health Education](#)
- ▶ [Literature and Guidelines](#)
- ▶ [Health Data Tools and Statistics](#)
- ▶ [Grants and Funding](#)
- ▶ [Education and Training](#)
- ▶ [Legislation and Policy](#)
- ▶ [Conferences and Meetings](#)

### Current Public Health News

[2010 Certified in Public Health \(CPH\) Study Guide Now Available](#) - 16-APR-2010

[CDC Report Shows Success in Fighting E. coli O157:H7](#) - 16-APR-2010

[This is Public Health Campaign Contest - Ideas Due by April 30](#) - 15-APR-2010

[National Healthy Schools Day - April 26](#) - 15-APR-2010

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### In the Spotlight

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# Partners in Information Access for the Public Health Workforce

- Agency for Healthcare Research and Quality (AHRQ) 
- American Public Health Association (APHA) 
- Association of Schools of Public Health (ASPH) 
- Association of State and Territorial Health Officials (ASTHO) 
- Centers for Disease Control and Prevention (CDC) 
- Health Resources and Services Administration (HRSA) 
- Medical Library Association (MLA) 
- National Agricultural Library (NAL) 
- National Association of County and City Health Officials (NACCHO) 
- National Library of Medicine (NLM) 
- National Network of Libraries of Medicine (NN/LM) 
- Public Health Foundation (PHF) 
- Society for Public Health Education (SOPHE) 



Search:  go

### Our Mission

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

### Public Health Topic Pages

- ▶ [Bioterrorism](#)
- ▶ [Dental Public Health](#)
- ▶ [Environmental Health](#)
- ▶ [HIV/AIDS](#)
- ▶ [How to Access Journal Articles](#)
- ▶ [Nutrition](#)
- ▶ [Public Health Genomics](#)
- ▶ [Veterinary Public Health](#)
- ▶ [Workforce Development](#)

### Main Topic Pages

- ▶ [Health Promotion and Health Education](#)
- ▶ [Literature and Guidelines](#)
- ▶ [Health Data Tools and Statistics](#)
- ▶ [Grants and Funding](#)
- ▶ [Education and Training](#)
- ▶ [Legislation and Policy](#)
- ▶ [Conferences and Meetings](#)

### Current Public Health News

[2010 Certified in Public Health \(CPH\) Study Guide Now Available](#) - 16-APR-2010

[CDC Report Shows Success in Fighting E. coli O157:H7](#) - 16-APR-2010

[This is Public Health Campaign Contest - Ideas Due by April 30](#) - 15-APR-2010

[National Healthy Schools Day - April 26](#) - 15-APR-2010

[Submit National Public Health Week Events to the Nation's Health - Submissions Due April 23](#) - 15-APR-2010

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### In the Spotlight

[National Environmental Public Health Tracking Network](#)

### What's New on PHPartners.org

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Difference in  
Global Health

[VISIT SITE](#)



## Our Mission

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

### Public Health Topic Pages

- ▶ [Bioterrorism](#)
- ▶ [Dental Public Health](#)
- ▶ [Environmental Health](#)
- ▶ [HIV/AIDS](#)
- ▶ [How to Access Journal Articles](#)
- ▶ [Nutrition](#)
- ▶ [Public Health Genomics](#)
- ▶ [Veterinary Public Health](#)
- ▶ [Workforce Development](#)

### Main Topic Pages

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

### Current Public Health News

[2010 Certified in Public Health \(CPH\) Study Guide Now Available](#) - 16-APR-2010

[CDC Report Shows Success in Fighting E. coli O157:H7](#) - 16-APR-2010

[This is Public Health Campaign Contest - Ideas Due by April 30](#) - 15-APR-2010

[National Healthy Schools Day - April 26](#) - 15-APR-2010

[Submit National Public Health Week Events to the Nation's Health - Submissions Due April 23](#) - 15-APR-2010

▶▶ [more news](#)

### In the Spotlight

[National Environmental Public Health Tracking Network](#)

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Difference in  
Global Health

[VISIT SITE](#)



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[Bioterrorism](#)

[Dental Public Health](#)

[Environmental Health](#)

[HIV/AIDS](#)

[How to Access Journal Articles](#)

[Nutrition](#)

[Public Health Genomics](#)

[Veterinary Public Health](#)

[Workforce Development](#)

Main Topic Pages

[Health Promotion and Health Education](#)

[Literature and Guidelines](#)

[Health Data Tools and Statistics](#)

[Grants and Funding](#)

[Education and Training](#)

[Legislation and Policy](#)

[Conferences and Meetings](#)

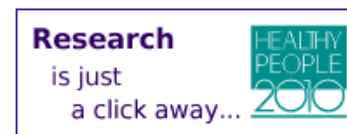
[Finding People](#)

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[Jobs and Careers](#)

## Literature and Guidelines

Resources to help you access the public health literature as well as links to titles from members of the Partners project.



**PHPartners: Literature and Guidelines**  
<http://phpartners.org/guide.html>

[Journal Article Databases](#) | [Individual Journal Titles](#) | [Newsletters](#) | [Reports and Other Publications](#) | [Guidelines](#) | [Public Health Libraries](#)

### Journal Article Databases

#### Canadian Institutes of Health Research

- [health-evidence.ca](#) - Searchable database of public health and health promotion literature.

#### Centers for Disease Control and Prevention

- [HuGE Literature Finder](#) - Searchable database of other human genome epidemiology literature.

#### Institute of Education Sciences, U.S. Department of Education

- [ERIC \(Education Resources Information Center\)](#) - Searchable database of education and information.

#### National Collaborating Centre for Methods and Tools (NCCMT)

- [Public Health +](#) - Searchable database of articles from over 140 medical and allied health academic journals that have been critically appraised to identify those that are methodologically sound. Articles that pass this process are rated by clinicians for relevance and newsworthiness.

#### National Library of Medicine (NLM) U.S.

- [MEDLINE/PubMed Search and Health Disparities & Minority Health Information Resources](#) - A collection of links to tools and resources on health disparities including a pre-formulated PubMed search on health disparities.
- [PubMed](#) - PubMed provides free access to MEDLINE, NLM's database of citations and abstracts in the fields of medicine, nursing, public health, dentistry, veterinary medicine, health services, and preclinical sciences.
- [PubMed Central](#) - PubMed Central (PMC) is the U.S. National Institutes of Health (NIH) free digital archive of biomedical and life sciences journal literature.
- [TOXLINE](#) - Bibliographic database for toxicology that provides information covering the biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals.

- Grey Literature
- Government reports & documents
- Research & technical reports
- Professional association publications
- Fact sheets & research briefs

# Literature: Reports and Other Publications



LIBRARY



Health, United States, 2009  
with Special Feature on Medical Technology

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- Library Home
- Employees
- Fellows
- Corporate
- Visitors

Library Quick Links

Home > Library > Grey Literature Report

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## Grey Literature Report

The Grey Literature of The New York Academy of Medicine provides readers with new grey literature services research in addition to this already indexed in our database.

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REPORTS

ACTIVITIES

Explore by Topic

Keyword Search

Browse History | Reports

Tools

Bookmark this Page

RSS

Text Size

Filter Reports

By Keyword

Keyword Search

Filter

By Type

- Consensus (425)
- Workshop Summary (176)

By Topic

- Public Health (227)
- Biomedical and Health Research (206)
- Diseases (164)
- Quality and Patient Safety (115)
- Health Services, Coverage, and Access (108)
- More Topics...

By Date

4/17/2010

4/17/2010

Filter

- This Week (4)

## About Reports

IOM reports provide objective and straightforward advice to decision makers and the public. This site includes IOM reports published after 1998. A complete list of IOM's publications, from its establishment in 1970 through July 1, 2009, is available as a PDF.

Reports Index

View by: Most Recent

Displaying: 1 to 10 of 601 Reports

1 | 2 | 3 | 4 | 5 | ... | 61



Student Mobility: Exploring the Impacts of Frequent Moves on Achievement

Released: April 16, 2010

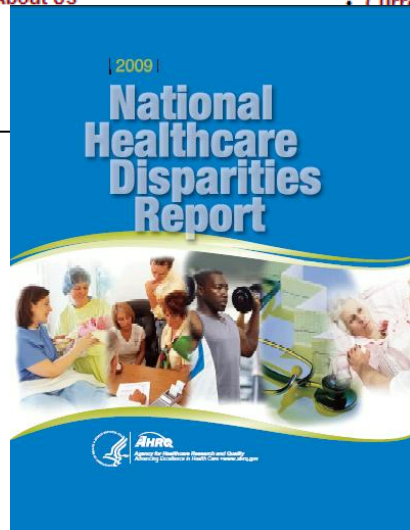
Many low-income families struggle with stable housing and frequently have to move due to foreclosures, rent increases, or other financial setbacks. Children in these families can experience lasting negative effects, especially those who are young and still developing basic learning and social skills. A joint National Research Council/IOM committee held a workshop in June 2009 to examine these issues, highlight patterns in current research, and discuss how to develop a support system for at-risk children.



A National Cancer Clinical Trials System for the 21st Century: Reinvigorating the NCI Cooperative Group Program

Released: April 15, 2010

The National Cancer Institute's (NCI) Clinical Trials Cooperative Group Program has played a key role in developing new and improved cancer therapies. However, the program is falling short of its potential, and the IOM recommends changes that aim to transform the Cooperative Group Program into a dynamic system that efficiently responds to emerging scientific knowledge; involves broad cooperation of stakeholders; and leverages evolving technologies to provide high-quality, practice-changing research.



## PHPartners: Health Statistics

[http://phpartners.org/health\\_stats.html#Health%20Statistics](http://phpartners.org/health_stats.html#Health%20Statistics)

### Health Statistics

- [America's Health Rankings](#) - (United Health Foundation) - America's Health Rankings is a yearly assessment of the relative healthiness of the nation, based upon analysis of comprehensive determining factors such as personal behaviors, the environment in which people live and work, the decisions made by public and elected officials and the quality of medical care delivered by health professionals.
- [Big Cities Health Inventory 2007: The Health of Urban USA](#) - (National Association of County and City Health Officials (NACCHO)) - Provides city-to-city comparisons of leading measures of health, presenting a broad overview of the health of the 54 largest metropolitan areas in the U.S.
- [Cancer Trends Progress Report](#) - (National Cancer Institute, NIH (NCI)) - Summarizes progress in the U.S. against cancer in relation to Healthy People 2010 targets set forth by the Department of Health and Human Services. The report includes key measures of progress along the cancer control continuum and uses national trend data to illustrate where advancements have been made.
- [CDC Data and Statistics](#) - (Centers for Disease Control and Prevention (CDC))
- [Data & Surveys](#) - (Agency for Healthcare Research and Quality (AHRQ))
- [Demographic, Social and Housing Statistics](#) - (United Nations)
- [European Health For All Database \(HFA-DB\)](#) - (World Health Organization (WHO)) - Contains data on about 600 health indicators for Member States of the WHO European Region, including basic demographic and socioeconomic indicators; lifestyle- and environment-related indicators; mortality, morbidity and disability; hospital discharges; and health care resources, utilization and expenditure . The database is a helpful tool for international comparison and for assessing the health situation and trends in any European country in an international context.
- [FASTATS A-Z](#) - (Centers for Disease Control and Prevention (CDC)) - Listing and quick links for basic public health statistical data.
- [Finding and Using Health Statistics: A Self-Study Course](#) - (National Library of Medicine, National Information Center on Health Services Research and Health Care Technology) - Slide Presentation, October 2000
- [GlobalHealthFacts.org](#) - (Henry J. Kaiser Family Foundation (KFF)) - Global data on HIV/AIDS, malaria, TB and other key health and socio-economic indicators. The data are displayed in tables, charts, and color-coded maps and can be downloaded for custom analyses.

# Health Data Tools and Statistics

## FastStats

[FastStats Homepage](#)

[State and Territorial Data](#)

**Related Links**

[Accessibility](#)

[NCHS Home](#)

## FastStats A to Z

The FastStats site provides quick access to statistics on top organized alphabetically. Links are provided to publications or sources of more data, and to related web pages.

[State and Territorial Data](#)

A

K

## National Center for Chronic Disease Prevention and Health Promotion Behavioral Risk Factor Surveillance System

[BRFSS Home](#) | [Contact Us](#)

# BRFSS

## Turning Information Into Health

The Behavioral Risk Factor Surveillance System (BRFSS) is the world's largest, on-going telephone health survey system, tracking health conditions and risk behaviors in the United States yearly since 1984.

Currently, data are collected monthly in all 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam. [Learn More >](#)

**SPOTLIGHT**

[Sign up for CDC email updates from BRFSS](#)



United Health Foundation

[About the Rankings](#) | [20th Anniversary Highlights](#) | [Get Informed](#) | [Take Action](#) | [Get Reports](#)

## Risky

## The Only 20-Year Scorecard of Our Nation's

After two decades of changes in **Risky Health Behaviors**, the greatest health activity are positioning **obesity** to become the U. S. health battle of the next 20 years. [more >>](#)

### Rankings by State

Select Your State

### Rankings by Measure

Select Measure

### New! State Obesity Calculator

As a nation, our excess pounds are creating excess costs. Find out what obesity is costing your state today, and if trends continue, what it may cost in the future.

### Get Informed



Create your own *America's Health Rankings™* experience with new interactive data applications.

Check out the new [e-Rankings](#) tool that lets you search and sort up to 20 years of data by state, health measure and more. And our popular [nation-at-a-glance](#) interactive map has been updated with 2009 rankings.

### Take Action



For the first time, the sentiment where our...

Our [Healthy...](#) everyone — difference no...



# Community Health Status Indicators CHSI

Our Mission: Provide Information for Improving Community Health

Select State

Select a State

Select County

Select a County

## Community Health Status Indicators Report

The goal of Community Health Status Indicators (CHSI) is to provide an overview of key health indicators for local communities and to encourage dialogue about actions that can be taken to improve a community's health. The CHSI report was designed not only for public health professionals but also for members of the community who are interested in the health of their community. The CHSI report contains over 200 measures for each of the 3,141 United States counties. Although CHSI presents indicators like deaths due to heart disease and cancer, it is imperative to understand that behavioral factors such as tobacco use, diet, physical activity, alcohol and drug use, sexual behavior and others substantially contribute to these deaths (see chart).

In addition to the web pages, community profiles can be displayed on maps or downloaded in a brochure format. The CHSI mapping capability allows users to visually compare similar counties (termed peer counties) as well as adjacent counties with their county. The downloaded CHSI report allows broad dissemination of information to audiences that may not have access to the internet.

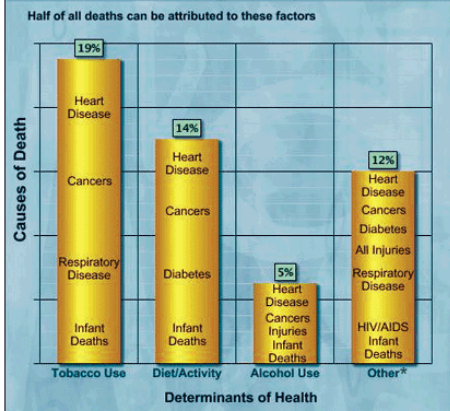


### Survey Data and Downloads

[BRFSS Annual Survey Data \(1984–2008\)](#)

[BRFSS GIS Maps Data](#)

## What's Really Killing Us?



Source: McGinnis, J.M & Foege, W.H. (1993). Actual causes of death in the United States. *JAMA*, 270(18), 2207-2212



### Public Health Topic Pages

[Bioterrorism](#)

[Dental Public Health](#)

[Environmental Health](#)

[HIV/AIDS](#)

[How to Access Journal Articles](#)

[Nutrition](#)

[Public Health Genomics](#)

[Veterinary Public Health](#)

[Workforce Development](#)

### Main Topic Pages

[Health Promotion and Health Education](#)

[Literature and Guidelines](#)

[Health Data Tools and Statistics](#)

[Grants and Funding](#)

[Education and Training](#)

[Legislation and Policy](#)

[Conferences and Meetings](#)

[Finding People](#)

[Discussion and E-mail Lists](#)

[Jobs and Careers](#)

## Legislation and Policy

Resources to support legislation and policy at the state and federal levels.

[National Legislation and Policy](#) | [State Legislation and Policy](#)

### National Legislation and Policy

- [ACPM Policy Compendium](#) - (American College of Preventive Medicine (ACPM)) - Practice policy statements, public policy statements, position statements, and patient education statements consistent with scientific principles of the discipline of preventive medicine.
- [AMCHP's Current Legislative Agenda](#) - (Association of Maternal and Child Health Programs (AMCHP)) - AMCHP works to strengthen national policy and increase resources for maternal and child health programs.
- [APHA Legislative Issues and Advocacy](#) - (American Public Health Association (APHA)) - APHA works to shape public policy to address ongoing public health concerns such as ensuring access to care, protecting funding for core public health programs and services, and eliminating health disparities.
- [ASPH Public Health Advocacy](#) - (Association of Schools of Public Health (ASPH)) - Information on ASPH advocacy efforts and links to sources of public health legislative information and resources.
- [Campaign for Children's Health Care](#) - The campaign is dedicated to making high-quality, comprehensive, affordable health insurance coverage for all of America's children a top national priority.
- [CDC/Washington](#) - (Centers for Disease Control and Prevention (CDC))
- [E-Health and the National Health Information Infrastructure Policy](#) - (IEEE (Institute of Electrical and Electronics Engineers)-USA) - IEEE-USA position statements, policy communications, and legislation related to improving the interoperability of health information systems and the capability for exchanging patient information.
- [The Federal Register](#) - (National Archives and Records Administration (NARA) U.S.) - The Office of the Federal Register (OFR) provides access to the official text of federal laws, presidential documents, and to administrative regulations and notices.
- [Health Education Advocate](#) - (Coalition of National Health Education Organizations (CNHEO)) - Advocating for health education and health promotion legislation.
- [Kaiser Daily Health Policy Report](#) - (Henry J. Kaiser Family Foundation (KFF)) - Daily online reports that provide summaries of news stories with links to original articles on health policy issues.



## Health

Health Highlights	Hot Topics: Health	Standing Committee	Health Staff Network	Health Newsletters	A-Z Issues & NCSL Contacts   Search
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### Health Reform is Public Law - April 15

Cindy Mann, Director for the Center for Medicaid and State Operations addresses Health Committee at Spring Forum. New CRS reports posted April 15, 2010. [More](#)

### Disparities in Health 2010 Introduced Legislation

Life expectancy have improved in recent years for most Americans, thanks in part to a better focus on preventive medicine and advances in medical technology. [More](#)

### High Risk Pools for State Health Coverage

35 states have implemented high-risk health insurance pools. Federal health reform of March 2010 adopts this structure for all states. [More](#)



Step outside the ring and into the winner's circle  
July 25-28 2010

**NCSL LEGISLATIVE SUMMIT KENTUCKY**



**NCSL State Budget Update** March 2010



**NCSL Policy Priorities**

### Health Resources and Research

NCSL Programs	Access	Cost & Quality	Diseases & Conditions	Health Insurance	Health IT	Long-Term Care & Aging	Medicaid, CHIP, Medicare & SSI
Mental Health & Substance Abuse	Pharmaceuticals	Providers & Facilities	Public Health & Prevention	Women, Children & Adolescents	Special Topics		

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## NCSL Health Programs

- Health
- News
- Overview

### State Legislation Challenging Health Reforms, April 2010

39 states are considering action to block mandated insurance or required payments in health reforms. Virginia, Utah and Idaho enacted the first laws in March 2010; nine others have failed to pass. Updated 4/12/2010 [More](#)

### Preventing Teen Suicide



Comprehensive plans in 48 states address suicide prevention, and some laws require the department of education to establish and teach a youth suicide prevention curriculum. [More](#)



**An Act**

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**Public Health Topic Pages**

[Bioterrorism](#)

[Dental Public Health](#)

[Environmental Health](#)

[HIV/AIDS](#)

[How to Access Journal Articles](#)

[Nutrition](#)

[Public Health Genomics](#)

[Veterinary Public Health](#)

[Workforce Development](#)

**Main Topic Pages**

[Health Promotion and Health Education](#)

[Literature and Guidelines](#)

[Health Data Tools and Statistics](#)

[Grants and Funding](#)

[Education and Training](#)

[Legislation and Policy](#)

**Conferences and Meetings**

[Finding People](#)

[Discussion and E-mail Lists](#)

[Jobs and Careers](#)

**Conferences and Meetings**

[Upcoming Meetings](#) | [Webcasts](#) | [Calendar of Events](#) | [Past Meeting Archives and Reports](#)

**Upcoming Meetings**

- [Population Association of America Annual Meeting](#) - (Population Association of America) - April 15-17, 2010, Dallas, TX
- [Unite For Sight Global Health & Innovation 2010 Conference](#) - (Unite for Sight) - April 17-18, 2010, New Haven, CT
- [2010 National Immunization Conference \(NIC\)](#) - (Centers for Disease Control and Prevention (CDC)) - April 19-22, 2010, Atlanta, GA. The conference will explore innovative strategies for developing programs, policy, and research to promote immunization coverage for all age groups.
- [Keeneland Public Health Systems & Services Research \(PHSSR\) 2010 Conference](#) - (University of Kentucky College of Public Health) - April 20-22, 2010, Lexington, KY.
- [Health Effects Institute \(HEI\) 2010 Annual Conference](#) - (Health Effects Institute (HEI)) - April 25-27, 2010, Alexandria, VA. The Health Effects Institute will bring together scientists from a wide range of disciplines to share results of research on topics including: New Technologies and Fuels; Short-Lived Air Pollutants, Climate Change, and Human Health; Multipollutant Science and Policy; and health impacts of actions to improve air quality.
- [2010 Annual Conference on Vaccine Research](#) - (National Foundation for Infectious Diseases (NFID)) - April 26-28, 2010, Bethesda, MD. Scientific forum devoted exclusively to the research and development of vaccines and related technologies for prevention and treatment of disease through immunization.
- [National Public Health Leadership Development Network Annual Conference](#) - (National Public Health Leadership Development Network) - April 27-30, 2010, Nebraska City, NE. The theme of the conference is Innovation 2010/Vision 2020: Creating the Future of Leadership Development.
- [Webinar Series: The Convergence Partnership's Healthy People Healthy Places](#) - (Convergence Partnership) - April - September, 2010. Monthly webinar series that addresses how to make environmental policy changes to improve health.
- [BioDefence 2010 Conference: Enhancing Security Against Pathogenic Terrorism](#) - (Homeland Security Outlook) - May 3-4, 2010, Washington, DC. The conference will evaluate the state of America's biodefense readiness.
- [6th Annual GIS & Public Health Conference](#) **PDF** - (University at Albany School of Public Health) - May 4, 2010, East Greenbush, NY. The theme of this year's program is Using GIS to Improve Public Health.



## Annual Meeting & Exposition

### In This Section

Overview

Annual Meeting Highlights

Schedule of Events

Scientific Sessions

Continuing Education at the APHA Annual Meeting

Public Health Exposition

Past & Future Annual Meetings

Accessibility

Frequently Asked Questions

Contact Information



APHA Home » Annual Meeting & Exposition » Past & Future Annual Meetings » Past Years Abstracts and Locations

### Past Years Abstracts and Locations

#### **2009 November 7-11, Philadelphia, PA (137th Meeting)**

*Water and Public Health: the 21st Century Challenge*

[2009 Program Abstracts](#)

[2009 Virtual Expo](#)

[2009 Annual Meeting Photographs](#)

[2009 E-ssential Learning](#)-Available for purchase

#### **2008 October 25-29, San Diego, CA (136th Meeting)**

*Public Health Without Borders*

[2008 Program Abstracts](#)

[2008 Virtual Expo](#)

[2008 Annual Meeting Photographs](#)

[2008 E-ssential Learning](#) - Available for Purchase

#### **2007 November 3-7, Washington, DC (135th Meeting)**

*Politics, Policy and Public Health*

[2007 Program Abstracts](#)

[2007 Virtual Expo](#)

[2007 E-ssential Learning](#) - Available for Purchase



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**Public Health Topic Pages**

- ▶ [Bioterrorism](#)
- ▶ [Dental Public Health](#)
- ▶ [Environmental Health](#)
- ▶ [HIV/AIDS](#)
- ▶ [How to Access Journal Articles](#)
- ▶ [Nutrition](#)
- ▶ [Public Health Genomics](#)
- ▶ [Veterinary Public Health](#)
- ▶ [Workforce Development](#)

**Main Topic Pages**

- ▶ [Health Promotion and Health Education](#)
- ▶ [Keeping up with what's new](#)
- ▶ [Education and Training](#)
- ▶ [Legislation and Policy](#)
- ▶ [Conferences and Meetings](#)

**Current Public Health News**

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

## Public Health Topic Pages

- ▶ [Bioterrorism](#)
- ▶ [Dental Public Health](#)
- ▶ [Environmental Health](#)
- ▶ [HIV/AIDS](#)
- ▶ [How to Access Journal Articles](#)
- ▶ [Nutrition](#)
- ▶ [Public Health Genomics](#)
- ▶ [Veterinary Public Health](#)
- ▶ [Workforce Development](#)

## Main Topic Pages

- ▶ [Health Promotion and Health Education](#)
- ▶ [Literature and Guidelines](#)
- ▶ [Health Data Tools and Statistics](#)
- ▶ [Grants and Funding](#)
- ▶ [Education and Training](#)
- ▶ [Legislation and Policy](#)
- ▶ [Conferences and Meetings](#)

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- [CDC Report Shows Success in Fighting E. coli O157:H7](#) - 16-APR-2010
- [This is Public Health Campaign Contest - Ideas Due by April 30](#) - 15-APR-2010
- [National Healthy Schools Day - April 26](#) - 15-APR-2010
- [Submit National Public Health Week Events to the Nation's Health - Submissions Due April 23](#) - 15-APR-2010

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## In the Spotlight

[National Environmental Public Health Tracking Network](#)

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## Featured Resources



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is just a click away...

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**Resource Guide**  
for Public Health Preparedness

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Making a Difference in Global Health

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# CASE STUDIES – PART II

- Consider your search cases again in light of these new resources
- Try out a few possibilities to add to your case solution
- We'll come together in a few minutes to hear reports back from all the groups
- Each group will have 3-5 minutes to share and get feedback from other participants.

# CRITICAL APPRAISAL II – FULL TEXT

Prochaska JD, Burdine JN, Bigsby K, Ory MG,  
Sharkey JR, McLeroy KR, et al.

**The impact of a communitywide smoke-free ordinance on smoking among older adults.**

Prev Chronic Dis 2009;6(1): .

[http://www.cdc.gov/pcd/issues/2009/jan/07\\_0264.htm](http://www.cdc.gov/pcd/issues/2009/jan/07_0264.htm)

# CRITICAL APPRAISAL - Validity

## I. Are the results of the study valid?

- Were there clearly identified comparison groups that were similar with respect to important determinants of outcome, other than the one of interest (exposure to smoke free legislation)?
- Were the outcomes and exposures measured in the same way in the groups being compared?
- Was follow-up sufficiently long and complete?



# CRITICAL APPRAISAL

## II. What are the results?

- How strong is the association between exposure and outcome (harm studies) OR between intervention and outcome?  
ODDS RATIO (Observational Studies)
- How precise is the estimate of the risk?  
CONFIDENCE INTERVALS

# CRITICAL APPRAISAL - ACTION

## **III. Will the results help to improve the health of my community?**

- Can the results be applied to caring for people in the community? Are the findings generalizable?
- What is the magnitude of the risk or benefit?

# Wrap-up & Evaluation

# Contact Information

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