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Evidence-Based Public Health: Findings from a Research Project and Resources for Practice

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Authors	Simpson, E. Hatheway
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Evidence-Based Public Health: Findings from a Research Project and Resources for Practice

Hathy Simpson, MPH
Public Health Coordinator

September 13, 2006

Preventive Medicine Residency/Fellowship Program
University of Massachusetts Medical School

Based on EBPPH Project at the University of Massachusetts Medical School Library
Past support from the Centers for Disease Control and Prevention and
the Association of Teachers of Preventive Medicine; Project #TS-0734
Current support from the National Network of Libraries of Medicine, New England Region



Outline

- ❖ Introduction to Evidence-Based Public Health (EBPH)
- ❖ Overview of Evidence-Based Practice for Public Health (EBPPH) Project & Findings
- ❖ Finding EBPH Information Resources

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.

Evidence-Based Public Health



Decisions for Public Health Practice

- Interventions
- Programs
- Policies

Evidence-Based Practice for Public Health Project

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

Dr. Elaine Martin, Principal Investigator

Hathy Simpson, Project Coordinator

Lamar Soutter Library

University of Massachusetts Medical School

Funded by the Centers for Disease Control and Prevention
and the Association of Teachers of Preventive Medicine

2002 - 2005



Project's Achievements

- ❖ Organization & classification of Public Health Knowledge
- ❖ Identification of PH journals, PH databases, & EBPH resources for practice
- ❖ Project Website to disseminate findings & links to identified resources
- ❖ Qualitative Research Study to determine the information needs of PH professionals
- ❖ Strategies to improve access to credible & relevant PH information

Evidence-Based Resources for Public Health Practice

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

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

Qualitative Study to Identify the Information Needs of Public Health Professionals

Nancy La Pelle, PhD

Roger L. Luckmann, MD, MPH

E. Hatheway Simpson, MPH

Elaine R. Martin, DA

Identifying Strategies to Improve Access to
Credible and Relevant Information for Public Health
Professionals: A Qualitative Study. *BMC Public
Health*. 2006 Apr 5;6(1):89

<http://www.biomedcentral.com/1471-2458/6/89>

Qualitative Study Methods

Study Sample:

19 Professionals at the Massachusetts
Department of Public Health

- 12 - Bureau of Communicable Disease Control
- 7 – Division of Community Health Promotion

Data Collection & Analysis

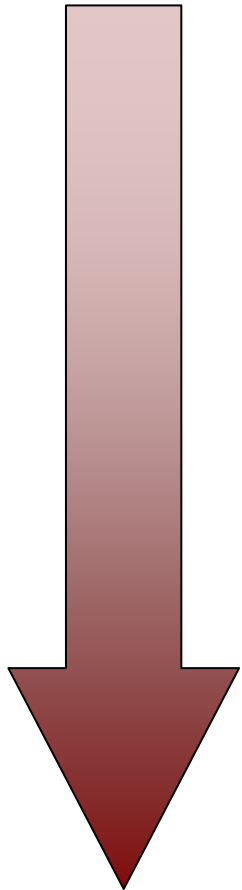
- Tape/transcribed key informant interviews & focus groups
- Thematic analysis of data; comparison across groups

Questions Asked

- ❖ Type of work tasks performed requiring access to information?
- ❖ Information sources currently used?
- ❖ Current limitations to information access?
- ❖ Preferred format and features for information access?
- ❖ Desired enhancements for access?

Information Sources Used by Participants

Different information sources for different needs



1. Early alerts & reports	➤ Email, news media
2. Emerging & promising practices	➤ Conferences, listservs, informal networks
3. Evaluated practices & interventions	➤ Reports, websites, conferences
4. Reference Information	➤ Books, websites
5. Published research & reviews	➤ PubMed, journals, article summaries
6. Evidence-based guidelines	➤ AHRQ, Institute of Medicine

Information Continuum

Research Support for Information

Minimum

Maximum

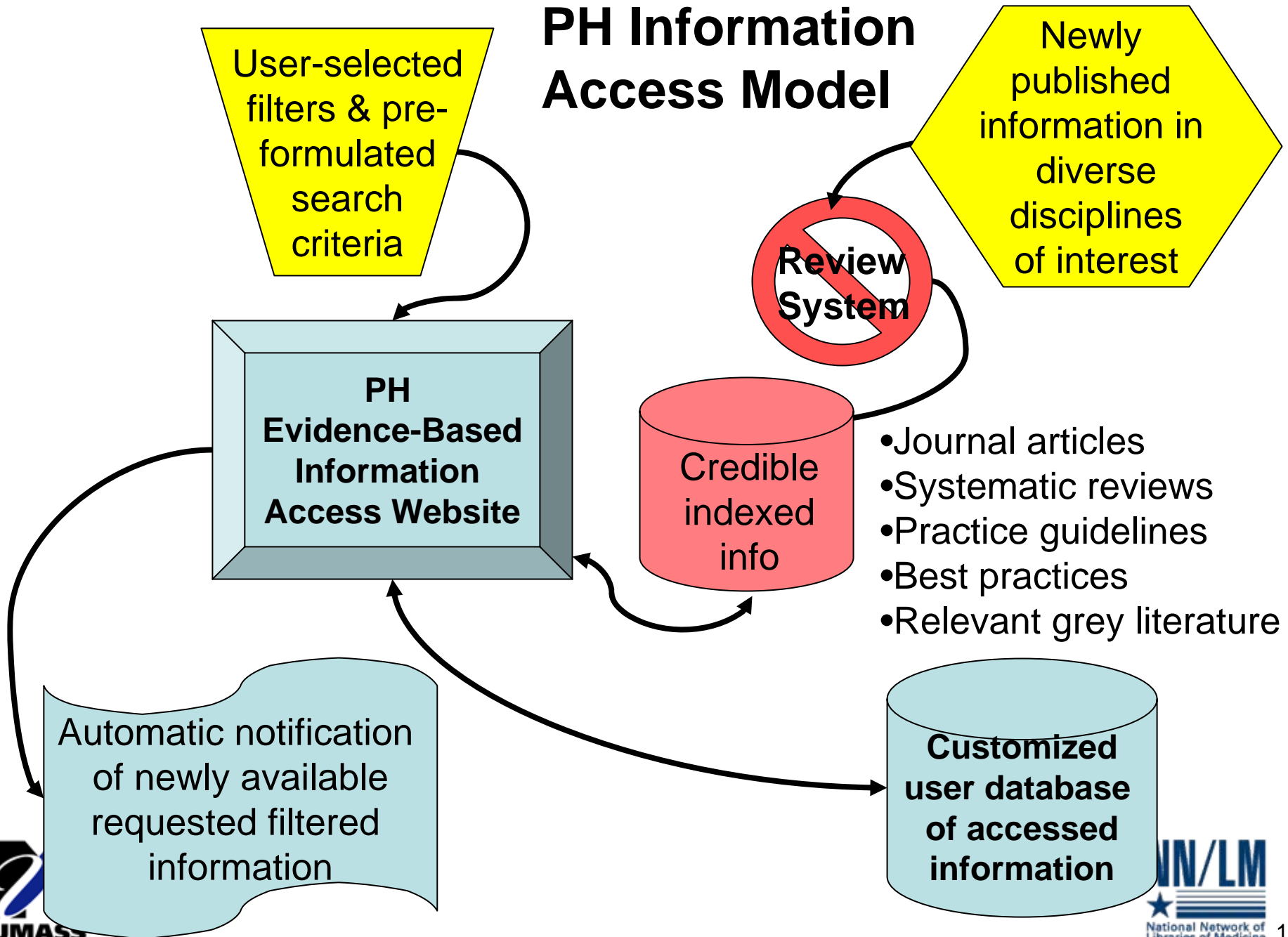


Need to access to all levels of the information continuum

Information Needs of Public Health Professionals

- ❖ Single portal access to PH information
- ❖ Automatic notification of new information
- ❖ Free access to EBPH resources
- ❖ Access to information from multiple disciplines, beyond biomedical field
- ❖ Access to grey literature & conference abstracts
- ❖ Access to credible summarized information – systematic reviews & evidence-based guidelines
- ❖ Training on how to access resources

PH Information Access Model



Meeting the Need to Access Credible Public Health Information

- ❖ **Evidence-Based Practice for Public Health Project**

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

- ❖ **Partners in Information Access for the Public Health Workforce Project**

<http://PHPartners.org>

Evidence-Based Practice for Public Health Project Web Site:

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



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University of Massachusetts Medical School

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Knowledge
Domains of
Public Health

Public Health
Journals

Public Health
Databases

Evidence-
Based
Resources

Partners in
Information
Access for the
Public Health
Workforce

Evidence-Based Practice for Public Health Project

Overview

There are numerous clinically based models for finding the "best evidence" for the diagnosis and treatment of disease. This process is called **Evidence-based Medicine** or **EBM**, which has been defined as "the conscientious, explicit, and judicious use of current best evidence in making decisions about the care of individual patients. The practice of evidence-based medicine means integrating individual clinical expertise with the best available external clinical evidence from systematic research" (Sackett DL, Rosenberg WMC, Gray JAM, Haynes RB, Richardson WS. Evidence based medicine: what it is and what is isn't. BMJ 1996; 312: 71-2). Within the EBM models, there is no or little attention paid to the "best practices" for population-based (public) health. The purpose of this project is to **examine the clinical EBM models and assess their effectiveness to the public health literature**. The project will also identify any existing evidence-based projects in public health and assess their effectiveness. The outcomes of the project will be:

1. An Evidence-based Public Health website;
2. An electronic publication or database based on the preferred models(s);
3. A training program for public health practitioners introducing them to evidence-based public health practice and literature retrieval methods.

Funding

The Evidence-Based Practice for Public Health Project is funded by an award from the [Association of Teachers of Preventive Medicine / Centers of Disease Control and Prevention](#) Cooperative Agreement to the [Lamar Soutter Library](#) at the University of Massachusetts Medical School.

Objectives

- Identify the knowledge domains of public health and their corresponding literature.
- Identify at least three models of evidence-based literature approaches to clinical medicine and review their applicability to the literature of public

EBPPH Project Web Site:

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

Evidence-Based Resources for Public Health Practice Available for Free Online Access

Evidence-based Guidelines

- United States
 - [CDC Recommends: The Prevention Guidelines System](#) (Centers for Disease Control and Prevention)
 - [Guide to Clinical Preventive Services](#) (U.S. Preventive Services Task Force)
 - [Guide to Community Preventive Services](#) (Task Force on Community Preventive Services)
 - [MMWR Recommendations and Reports](#) (Centers for Disease Control and Prevention)
 - [National Guideline Clearinghouse](#) (Agency for Healthcare Research and Quality)

Systematic Reviews

- United States
 - [PubMed Systematic Reviews](#) (National Library of Medicine)
 - [Healthy Aging Initiative - Evidence Reports](#) (Centers for Medicare & Medicaid Services)
- International
 - [Cochrane Database of Systematic Reviews, Abstracts](#) (Cochrane Collaboration)
 - [Cochrane Reviews of Relevance to Health Promotion and Public Health](#) (Cochrane Health Promotion and Public Health Field)
 - [DARE \(Database of Abstracts of Reviews of Effects\)](#) (Centre for Reviews and Dissemination, University of York, UK)
 - [The Effective Public Health Practice Project](#) (Ministry of Health and Long-Term Care and the City of Hamilton, Public Health and Community Services)
 - [EPPI \(Evidence for Practice and Policy Information\) Centre](#) (Social Science Research Unit, Institute of Education, University of London, UK)
 - [Evidence Based Health Promotion](#) (Victorian State Government, Department of Human Services, Australia)
 - [Health Development Agency Evidence Base](#) (Health Development Agency, UK)
 - [Health Evidence Bulletins Wales](#) (Duthie Library, University of Wales College of Medicine, Cardiff, UK)
 - [Health-Evidence.ca](#) (Canadian Institutes of Health Research)

Pre-formulated and Filtered Searches of Published Research Studies

- United States
 - [Healthy People 2010 Information Access Project](#) (National Library of Medicine and the Public Health Foundation)
 - [PubMed Clinical Queries](#) (National Library of Medicine)
 - [PubMed Health Services Research \(HSR\) Queries](#) (National Library of Medicine)

Best Practices (Experience-Based)

- United States

Evidence-based recommendations for programs and policies to promote population health.

Search The Community Guide

Topics

- | | | | |
|-----------------------------------|---------------------------|---------------------------------|------------------------------------|
| Alcohol | Cancer | Diabetes | Mental Health |
| Motor Vehicle | Nutrition | Obesity | Oral Health |
| Physical Activity | Pregnancy | Sexual Behavior | Social Environment |
| Substance Abuse | Tobacco | Vaccines | Violence |
| Worksite | | | |

News

- [15% discount](#)
The Guide to Community Preventive Services in book form
- [America's Health: State Rankings — 2005 Edition](#)

Users

- | | |
|---|--|
| Public Health Professionals
What works to promote health and what still needs more research | Providers of Health Care Services
Increase delivery of effective preventive services |
| Legislators and Policy Makers
Unbiased, evidence-based findings about legal and policy options | Researchers
What needs more research and ways to improve the quality of the research. |
| Community-based Organizations
Improve the health of your community. | Employers and Other Purchasers of Health Care Services
How to enhance employee health efficiently |

What is It?

- [About the Guide](#)
- [The Book](#)
- [Economics](#)
- [Methods](#)
- [Partners](#)

Calendar of Events

Next Task Force Meeting
October 18 – 19, 2006

Contact Info

Community Guide Branch
National Center for Health Marketing (NCHM)
Centers for Disease Control and Prevention
1600 Clifton Road NE

Guide to Community Preventive Services
<http://www.thecommunityguide.org>

[Home](#)

Topics

- > [Alcohol](#)
- > [Cancer](#)
- > [Diabetes](#)
- > [Mental Health](#)
- > [Motor Vehicle](#)
- > [Nutrition](#)
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- > [Oral Health](#)
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The systematic reviews by the *Guide to Community Preventive Services (Community Guide)* of the effectiveness of interventions to reduce or prevent tobacco use focused on three areas:

1. Preventing tobacco product use initiation
2. Increasing cessation
3. Reducing exposure to environmental tobacco smoke (ETS)

- > [Book Chapter](#)
- > [Summary of Findings](#)
- > [Economic Efficiency Findings](#)

Search The Community Guide

Tobacco Contents

- > [Interventions](#)
- > [Publications](#)
- > [Additional Resources](#)

Partners

[Cancer Control PLANET](#)

Contact Info

Community Guide Branch
 National Center for Health Marketing (NCHM)
 Centers for Disease Control and Prevention
 1600 Clifton Road NE
 Mailstop K-95
 Atlanta, GA 30333

E-mail:
communityguide@cdc.gov

Interventions

Legend: Task Force Findings Recommended Insufficient Evidence Recommend Against

Program Legend: **RTIPS** Sample Evidence-Based Program(s). This symbol represents a link to example programs representing the type of intervention reviewed.

Reducing Tobacco Use Initiation

[Increasing the unit price for tobacco](#)

[Mass media education campaigns when combined with other interventions](#)

Restricting minors' access to tobacco products:

Community mobilization when combined with additional interventions (stronger local laws directed at retailers, active enforcement of retailer sales laws)

Guide to Community Preventive Services

Summary of Findings: Tobacco Use Prevention and Control

Intervention	Recommendation
Strategies to Reduce Exposure to Environmental Tobacco Smoke (ETS)	
Smoking bans and restrictions	Recommended (Strong Evidence)
Community education to reduce ETS exposure in the home environment	Insufficient Evidence to determine effectiveness
Strategies to Reduce Tobacco Use Initiation by Children, Adolescents, and Young Adults	
Increasing the unit price for tobacco products	Recommended (Strong Evidence)
Mass media education (campaigns) when combined with other interventions	Recommended (Strong Evidence)
Strategies to Increase Tobacco Cessation	
Increasing the unit price for tobacco products	Recommended (Strong Evidence)
Mass media education	
Campaigns when combined with other interventions	Recommended (Strong Evidence)
Smoking cessation series	Insufficient Evidence to determine effectiveness
Smoking cessation contests	Insufficient Evidence to determine effectiveness
Interventions appropriate for health care systems	
Provider reminder systems (alone)	Recommended (Sufficient evidence)
Provider education programs (alone)	Insufficient Evidence to determine effectiveness
Provider reminder + Provider education (with or without patient education)	Recommended (Strong Evidence)
Provider feedback system	Insufficient Evidence to determine effectiveness
Reducing patient out-of-pocket costs for effective treatments for tobacco use and dependence	Recommended (Sufficient evidence)
Patient telephone support (quit lines) when combined with other interventions	Recommended (Strong Evidence)



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- ▶ Compare
- ▶ Resources

Search

100 Results

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- Resources**
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 - ▶ [Bioterrorism](#)
 - ▶ [Discussion List](#)
 - ▶ [EPC Reports](#)
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 - ▶ [Guideline Index](#)
 - ▶ [Guidelines In Progress](#)
 - ▶ [Guideline Archive](#)

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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.

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/updated [AAFP, CDC, IDSA, RAO, UMHS, and Work Loss Data Inst guidelines](#).
- The [Annotated Bibliographies](#) database has been updated for the 13th time.
- The CDC has recently released [comprehensive immunization strategy to eliminate transmission of hepatitis B](#) and [guidelines for preventing the transmission of Mycobacterium tuberculosis in health-care settings](#). See also NGC's [Guidelines in Progress](#) page.

Recent U.S. Food and Drug Administration (FDA) Advisories

- **January 5, 2006:** [Avandia \(rosiglitazone maleate\) and Avandamet \(rosiglitazone maleate/metformin HCl\)](#). Post-marketing reports of new onset and worsening diabetic macular edema.
- **December 19, 2005:** [NeuroSpec \(Technetium \[99m Tc\] fanolesomab\)](#). Immediate voluntary market suspension due to serious safety concerns.

Visit NGC's Sister Sites

- The **2005 National Healthcare Quality Report (NHQR)** and **2005 National Healthcare Disparities Report (NHDR)** are now accessible from the [QualityTools Web site](#).
- [National Quality Measures Clearinghouse \(NQMC\)](#)
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Brief Summary

GUIDELINE TITLE

Screening for prostate cancer: recommendations and rationale.

BIBLIOGRAPHIC SOURCE(S)

Berg AO. **Screening** for **prostate cancer**: recommendations and rationale. Am J Nurs 2003 Mar;103(3):107-10. [PubMed](#)

Screening for **prostate cancer**: recommendations and rationale. Ann Intern Med 2002 Dec 3;137(11):915-6. [8 references] [PubMed](#)

GUIDELINE STATUS

This is the current release of the guideline.

This release updates a previously published guideline: U.S. Preventive Services Task Force. **Screening** for **prostate cancer**. In: Guide to clinical preventive services. 2nd ed. Baltimore (MD): Williams & Wilkins; 1996.

BRIEF SUMMARY CONTENT

- [RECOMMENDATIONS](#)
- [EVIDENCE SUPPORTING THE RECOMMENDATIONS](#)
- [IDENTIFYING INFORMATION AND AVAILABILITY](#)
- [DISCLAIMER](#)

[Go to the Complete Summary](#)

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

The U.S. Preventive Services Task Force (USPSTF) grades its recommendations (A, B, C, D, or I) and the quality of the overall evidence for a service (good, fair, poor). The definitions of these grades can be found at the end of the "Major Recommendations" field.

- The U.S. Preventive Services Task Force (USPSTF) concludes that the evidence is insufficient to recommend for or against routine **screening** for **prostate cancer** using **prostate** specific antigen (PSA) testing or digital rectal examination (DRE). **I recommendation.**

*The USPSTF found good evidence that PSA **screening** can detect early-stage **prostate cancer** but mixed and inconclusive evidence that early detection improves health outcomes. **Screening** is associated with important harms, including frequent false-positive results and unnecessary anxiety, biopsies, and potential complications of treatment of some **cancers** that may never have affected a patient's health. The USPSTF concludes that evidence is insufficient to determine whether benefits outweigh harms for a screened population.*



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- [injury prevention & safety](#)
- [mental health](#)
- [nutrition](#)
- [parenting/infants & children](#)

▶ Most Popular References...


- ▶ [Q15783 - Day care for pre-school children](#) modified: 6/2/
- ▶ [Q15782 - The health and welfare effects of day-care: A systematic review of randomized controlled trials](#) modified: 6/2/
- ▶ [Q15329 - Interventions for preventing obesity in children](#) modified: 6/2/
- ▶ [Q15345 - Effectiveness of community-based interventions to increase fruit and vegetable consumption](#) modified: 6/2/
- ▶ [Q16121 - Effectiveness of physical activity enhancement and obesity prevention programs in children and youth](#) modified: 6/2/

▶ Latest Additions...

















- ▶ [Q16153 - Intervention programs for arthritis and other rheumatic diseases](#) modified: 8/24/
- ▶ [Q15457 - The efficacy of influenza vaccine in elderly persons: A meta-analysis and review of the literature](#) modified: 8/24/
- ▶ [Q15513 - Is dental health education effective? A systematic](#) modified: 8/24/

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health-evidence.ca search tool

Display... 10 results per page

Search... Full Reference Reference Title Only Reference ID

Maximum Age... Any Age

User Rating... select from list

Reference Rating... weak moderate strong

Focus of Review:

- Addiction/Drug Use
- Adolescent Health
- Adult Health
- Child Health
- Chronic Diseases
- Communicable Disease/Infection
- Community Health
- Dental Health
- Elderly Health
- Environmental Health
- Food Safety & Inspection
- Infant Health
- Injury Prevention/Safety
- Mental Health
- Nutrition
- Parenting, Infants and Children
- Physical Activity
- Pregnancy
- Sex Education
- STDs
- Women's Health

Re
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- Parenting, Infants and Children
 - airbags and child
 - allergies and child
 - attention deficit disorder
 - autism
 - child abuse
 - child behaviour disorders
 - child development
 - child obesity
 - child protection
 - childhood illness
 - developmental delay
 - ear ache
 - ear infection
 - family functioning
 - family support
 - fever
 - growth and development
 - hearing screening
 - high risk children
 - high risk infants
 - infant mortality

Age Groups
(e.g. rural/remote
5-12)
populations

health-evidence.ca search tool

Reference Characteristics...

Intervention Location:

- Camp
- City/Regional/Provincial/State/National
- Clinic
- Commercial Site
- Community
- Community Centre
- Correctional Institution
- Day Care Centre
- Dentist
- Family Centre
- Farm
- Health Departments
- Highways
- Home
- Hospice
- Hospital
- Internet
- Mail
- Nursing Home/Long-Term Care Facility
- Physician
- Public Places (e.g. Skating Rink)
- Religious Institution
- Residential Centre
- Restaurant
- School
- Telephone
- Worksite

Intervention Strategies

- Advocacy
- Behaviour Modification
- Counselling
- Education/Awareness
- Environmental Modification
- Environmental Safety
- Immunization
- Provision of care
- Regulation
- Screening
- Social Initiatives
- Social Support/Support Group

Title: Day care for pre-school children

Authors: Zoritch,B., Roberts,I., Oakley,A.,

Publication Date: 2002

Journal Name: The Cochrane Library

Volume:

Issue: 2

Start Page:

End Page:

BACKGROUND:

The debate about how, where and by whom young children should be looked after is one which has occupied much social policy and media attention in recent years. Mothers undertake most of the care of young children. Internationally, out-of-home day-care provision ranges widely. These different levels of provision are not simply a response to different levels of demand for day-care, but reflect cultural and economic interests concerning the welfare of children, the need to promote mothers' participation in paid work, and the importance of socializing children into society's values. At a time when a decline in family values is held responsible for a range of social problems, the day-care debate has a special prominence.

OBJECTIVES:

To quantify the effects of out-of-home day-care for preschool children on educational, health and welfare outcomes for children and their families.

SEARCH STRATEGY:

Randomised controlled trials of day-care for pre-school children were identified using electronic databases, hand searches of relevant literature, and contact with authors.

SELECTION CRITERIA:

Studies were included in the review if the intervention involved the provision of non-parental day care for children under 5 years of age, and the evaluation design was that of a

Healthy People 2010 Information Access Project

<http://phpartners.org/hp>

HP2010 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.

- [Access to Quality Health Services](#)
- [Arthritis, Osteoporosis, and Chronic Back Conditions](#)
- [Cancer](#)
- [Chronic Kidney Disease](#)
- [Diabetes](#)
- [Disability and Secondary Conditions](#)
- [Educational and Community-Based Programs](#)
- [Environmental Health](#)
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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>	
19-3a.	Children aged 6 to 11 years	11	5
19-3b.	Adolescents aged 12 to 19 years	11	5
19-3c.	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.

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

All Databases

PubMed

Nucleotide

Protein

Genome

Structure

OMIM

PMC

Journals

Books

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Limits Preview/Index History Clipboard **Details**

Limits: added to PubMed in the last 5 years

Display Summary Show 20 Sort by Send to

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- 1:** [Davison KK, Marshall SJ, Birch LL.](#) Related Articles, Links
 Cross-sectional and longitudinal associations between TV viewing and girls' body mass index, overweight status, and percentage of body fat.
J Pediatr. 2006 Jul;149(1):32-7.
 PMID: 16860123 [PubMed - indexed for MEDLINE]
- 2:** [Newman BY.](#) Related Articles, Links
 The new food pyramid has a lot to offer--but it takes a little digging to find its hidden treasure.
Optometry. 2006 Jul;77(7):321-2. No abstract available.
 PMID: 16858892 [PubMed - indexed for MEDLINE]
- 3:** [Nelson MC, Gordon-Larsen P, Song Y, Popkin BM.](#) Related Articles, Links
 Built and social environments associations with adolescent overweight and activity.
Am J Prev Med. 2006 Aug;31(2):109-17.
 PMID: 16829327 [PubMed - indexed for MEDLINE]
- 4:** [Spanier PA, Marshall SJ, Faulkner GE.](#) Related Articles, Links
 Tackling the obesity pandemic: a call for sedentary behaviour research.
Can J Public Health. 2006 May-Jun;97(3):255-7. Review.
 PMID: 16827420 [PubMed - indexed for MEDLINE]
- 5:** [Goldfield GS, Mallory R, Parker T, Cunningham T, Legg C, Lumb A, Parker K, Prud'homme D, Gaboury I, Adamo KB.](#) Related Articles, Links
 Effects of open-loop feedback on physical activity and television viewing in overweight and obese children: a randomized, controlled trial.
Pediatrics. 2006 Jul;118(1):e157-66.
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Query Translation:

```
((("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 guidelines"[MeSH Terms]) AND ("child"[MeSH Terms])
```

Search URL

Result:

[341](#)

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]

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- 1:** [Davison KK, Marshall SJ, Birch LL.](#) [Related Articles, Links](#)
 Cross-sectional and longitudinal associations between TV viewing and girls' body mass index, overweight status, and percentage of body fat.
J Pediatr. 2006 Jul;149(1):32-7.
 PMID: 16860123 [PubMed - indexed for MEDLINE]
- 2:** [Newman BY.](#) [Related Articles, Links](#)
 The new food pyramid has a lot to offer--but it takes a little digging to find its hidden treasure.
Optometry. 2006 Jul;77(7):321-2. No abstract available.
 PMID: 16858892 [PubMed - indexed for MEDLINE]
- 3:** [Nelson MC, Gordon-Larsen P, Song Y, Popkin BM.](#) [Related Articles, Links](#)
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 Tackling the obesity pandemic: a call for sedentary behaviour research.
Can J Public Health. 2006 May-Jun;97(3):255-7. Review.
 PMID: 16827420 [PubMed - indexed for MEDLINE]
- 5:** [Goldfield GS, Mallory R, Parker T, Cunningham T, Legg C, Lumb A, Parker K, Prud'homme D, Gaboury I, Adamo KB.](#) [Related Articles, Links](#)
 Effects of open-loop feedback on physical activity and television viewing in overweight and obese children: a randomized, controlled trial.
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- 1:** [Nelson MC. Gordon-Larsen P. Song Y. Popkin BM.](#) Related Articles, Links
 Built and social environments associations with adolescent overweight and activity.
Am J Prev Med. 2006 Aug;31(2):109-17.
PMID: 16829327 [PubMed - indexed for MEDLINE]
- 2:** [Gordon-Larsen P. Nelson MC. Page P. Popkin BM.](#) Related Articles, Links
 Inequality in the built environment underlies key health disparities in physical activity and obesity.
Pediatrics. 2006 Feb;117(2):417-24.
PMID: 16452361 [PubMed - indexed for MEDLINE]
- 3:** [Nelson MC. Gordon-Larsen P.](#) Related Articles, Links
 Physical activity and sedentary behavior patterns are associated with selected adolescent health risk behaviors.
Pediatrics. 2006 Apr;117(4):1281-90.
PMID: 16585325 [PubMed - indexed for MEDLINE]
- 4:** [Gordon-Larsen P. McMurray RG. Popkin BM.](#) Related Articles, Links
 Determinants of adolescent physical activity and inactivity patterns.
Pediatrics. 2000 Jun;105(6):E83.
PMID: 10835096 [PubMed - indexed for MEDLINE]
- 5:** [Patrick K. Norman GJ. Calfas KJ. Sallis JF. Zabinski MF. Rupp J. Cella J.](#) Related Articles, Links
 Diet, physical activity, and sedentary behaviors as risk factors for overweight in adolescence.
Arch Pediatr Adolesc Med. 2004 Apr;158(4):385-90.
PMID: 15066880 [PubMed - indexed for MEDLINE]

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- 1: [Sant'Anna MJ, Catunda JK, Carvalho KA, Coates V, Omar HA.](#)** Related Articles, Links
 Pregnant teenager involvement in sexual activity and the social context.
 ScientificWorldJournal. 2006 Aug 25;6:998-1007.
 PMID: 16937006 [PubMed - in process]
- 2: [Rosengard C, Pollock L, Weitzen S, Meers A, Phipps MG.](#)** Related Articles, Links
 Concepts of the advantages and disadvantages of teenage childbearing among pregnant adolescents: a qualitative analysis.
 Pediatrics. 2006 Aug;118(2):503-10.
 PMID: 16882801 [PubMed - in process]
- 3: [Meldrum J, Pringle A.](#)** Related Articles, Links
 Sex, lives and videotape.
 J R Soc Health. 2006 Jul;126(4):172-7.
 PMID: 16875057 [PubMed - indexed for MEDLINE]
- 4: [Ricketts SA, Guemsey BP.](#)** Related Articles, Links
 School-based health centers and the decline in black teen fertility during the 1990s in Denver, Colorado.
 Am J Public Health. 2006 Sep;96(9):1588-92. Epub 2006 Jul 27.
 PMID: 16873755 [PubMed - indexed for MEDLINE]
- 5: [Sember R, Kropf A, di Mauro D.](#)** Related Articles, Links
 Images against teen pregnancy.
 Am J Public Health. 2006 Sep;96(9):1561. Epub 2006 Jul 27. No abstract available.
 PMID: 16873733 [PubMed - indexed for MEDLINE]
- 6: [Stephens SD.](#)** Related Articles, Links
 Faith-based social work in reducing adolescent pregnancy.
 Soc Work. 2006 Apr;51(2):190-1. No abstract available.
 PMID: 16858929 [PubMed - indexed for MEDLINE]
- 7: [Truong HH, Kellogg T, McFarland W, Kang MS, Drev EA.](#)** Related Articles, Links

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BMJ. 2002 Jun 15;324(7351):1426. Review.
PMID: 12065267 [PubMed - indexed for MEDLINE]

Interventions to reduce unintended pregnancies among adolescents: systematic review of randomised controlled trials

Alba DiCenso, Gordon Guyatt, A Willan, L Griffith

School of Nursing,
McMaster
University, 1200
Main Street West,
Hamilton, Ontario,
Canada L8N 3Z5
Alba DiCenso
professor

Departments of
Clinical
Epidemiology and
Biostatistics,
McMaster
University, 1200
Main Street West,
Hamilton, Ontario
Gordon Guyatt
professor

Department of
Clinical
Epidemiology and
Biostatistics,
McMaster
University, 105
Main Street East,
Level P1, Hamilton,
Ontario, Canada
L8N 1G6
A Willan
professor

Department of
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Abstract

Objective To review the effectiveness of primary prevention strategies aimed at delaying sexual intercourse, improving use of birth control, and reducing incidence of unintended pregnancy in adolescents.

Data sources 12 electronic bibliographic databases, 10 key journals, citations of relevant articles, and contact with authors.

Study selection 26 trials described in 22 published and unpublished reports that randomised adolescents to an intervention or a control group (alternate intervention or nothing).

Data extraction Two independent reviewers assessed methodological quality and abstracted data.

Data synthesis The interventions did not delay initiation of sexual intercourse in young women (pooled odds ratio 1.12; 95% confidence interval 0.96 to 1.30) or young men (0.99; 0.84 to 1.16); did not improve use of birth control by young women at every intercourse (0.95; 0.69 to 1.30) or at last intercourse (1.05; 0.50 to 2.19) or by young men at every intercourse (0.90; 0.70 to 1.16) or at last intercourse (1.25; 0.99 to 1.59); and did not reduce pregnancy rates in young women (1.04; 0.78 to 1.40). Four abstinence programmes and one school based sex education programme were associated with an

for the individual, family, and community.¹ There are negative associations between early childbearing and numerous economic, social, and health outcomes.²⁻³ For society, unintended early childbearing has tremendous social and financial costs.^{6,7} In response, communities have implemented various pregnancy prevention strategies for adolescents, several of which have been evaluated. Discrepant results of these evaluations have left the effectiveness of such strategies in doubt.

We undertook a systematic review that included non-published studies to avoid publication bias,^{8,9} excluded non-randomised studies that tend to inflate treatment effects,¹⁰ and provided a summary measure to facilitate interpretation.

Methods

Eligibility criteria

We included published and unpublished randomised controlled trials of adolescents (aged 11 to 18 years) that evaluated pregnancy prevention programmes including sex education classes, school based clinics, family planning clinics, and community based programmes. We included studies that evaluated delay in initiation of sexual intercourse, consistent use of birth control, or avoidance of unintended pregnancy. All studies took place in North America, Australia, New Zealand, or Europe (excluding Eastern Europe), and

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- 1: [Marx JD, Hopper F.](#) Related Articles, Links


 Faith-based versus fact-based social policy: the case of teenage pregnancy prevention. Soc Work. 2005 Jul;50(3):280-2. No abstract available. PMID: 16152750 [PubMed - indexed for MEDLINE]
- 2: [Wilson KL, Goodson P, Pruitt BE, Buhi E, Davis-Gunnels E.](#) **Related Articles, Links**

 A review of 21 curricula for abstinence-only-until-marriage programs. J Sch Health. 2005 Mar;75(3):90-8. PMID: 15966551 [PubMed - indexed for MEDLINE]
- 3: [Bennett SE, Assefi NP.](#) Related Articles, Links

 School-based teenage pregnancy prevention programs: a systematic review of randomized controlled trials. J Adolesc Health. 2005 Jan;36(1):72-81. PMID: 15661604 [PubMed - in process]
- 4: [Yoo S, Johnson CC, Rice J, Manuel P.](#) Related Articles, Links

 A qualitative evaluation of the Students of Service (SOS) program for sexual abstinence in Louisiana. J Sch Health. 2004 Oct;74(8):329-34. PMID: 15554119 [PubMed - indexed for MEDLINE]
- 5: [Ledeman RP, Chan W, Roberts-Gray C.](#) Related Articles, Links

 Sexual risk attitudes and intentions of youth aged 12-14 years: survey comparisons of parent-teen prevention and control groups. Behav Med. 2004 Winter;29(4):155-63. PMID: 15369196 [PubMed - indexed for MEDLINE]
- 6: [Perin KK, DeJoy SB.](#) Related Articles, Links

 Abstinence-only education: how we got here and where we're going. J Public Health Policy. 2003;24(3-4):445-59. PMID: 15015874 [PubMed - indexed for MEDLINE]
- 7: [Landry DJ, Darroch JE, Singh S, Higgins J.](#) Related Articles, Links

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- Search History will be lost after eight hours of inactivity.
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- Click on query # to add to strategy

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Search	Most Recent Queries	Time	Result
#3	teen pregnancy prevention abstinence	20:52:53	<u>85</u>
#2	teen pregnancy prevention Field: All Fields, Limits: Meta-Analysis	20:43:12	<u>1</u>
#1	teen pregnancy prevention	20:03:36	<u>1197</u>

A context menu is open over the "#3" search entry, showing options: AND, OR, NOT, Delete, Go, Details, and Save in My NCBI. The "#3" entry is circled in red.

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 J Sch Health. 2005 Mar;75(3):90-8.
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- 3: [Bennett SE, Assefi NP.](#) Related Articles, Links
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Public Health Information and Data Tutorial provides instruction for members of the public health workforce on issues related to information access and management. This tutorial is based on [Public Health Information and Data: A Training Manual](#). There are no copyright restrictions on the contents of this tutorial or the training manual, and users are free to adapt or duplicate any portion.

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

Learning objectives:

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



Suggestions for improving this tutorial are encouraged. Please share your suggestions [here](#).

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Hathy Simpson, MPH
Public Health Coordinator
National Network of Libraries of Medicine
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