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Healthy People 2020 Structured Evidence Queries for PubMed: Practice Informed by Research



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Introduction

Healthy People 2020 (HP2020), from the U.S. Department of Health and Human Services (HHS), provides national objectives to guide health promotion and disease prevention efforts in the United States.

The objectives provide a framework to monitor and measure improvements in health status of the American population over the decade from 2010 to 2020.

Public health professionals and policy makers may lack experience and have limited time to identify relevant research evidence to develop interventions to improve health outcomes.

Purpose

The purpose of the HP2020 Structured Evidence Queries (SEQs) is to reduce the time and increase the precision of finding and accessing research literature to support the development of evidence-based actions to achieve HP2020 objectives.

The National Library of Medicine collaborated with the HHS Office of Disease Prevention and Health Promotion to develop structured evidence queries (pre-formulated search strategies) of PubMed to retrieve citations to published research evidence relevant to Healthy People objectives.

Methods

The structured queries were developed by librarians, working in consultation with subject matter experts in public health. The librarians selected Medical Subject Headings (MeSH) and text words to develop optimal search strategies to retrieve articles on achieving specific Healthy People objectives.

Subject matter experts from the Healthy People Workgroup reviewed each search query. The expert reviewers worked with librarians to refine the search strategies to retrieve relevant articles and exclude unrelated articles.

Development of the search queries was an iterative process that often required several revisions of a specific strategy to find the optimal balance of including as many relevant citations as possible while minimizing the number of irrelevant citations. Searches were often limited by date to provide the most current information and to return a manageable number of citations.

Healthy People 2020 Structured Evidence Queries



<http://phpartners.org/hp2020>

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

Healthy People 2020 Structured Evidence Queries

Practice Informed by Research

This resource provides pre-formulated PubMed search strategies to find published literature to support achieving Health People 2020 objectives.

Search by Topic Area

- [Access to Health Services](#)
- [Adolescent Health](#)
- [Arthritis, Osteoporosis, and Chronic Back Conditions](#)
- [Blood Disorders and Blood Safety - beta](#)
- [Chronic Kidney Disease](#)
- [Dementias, Including Alzheimer's Disease](#)
- [Diabetes](#)
- [Early and Middle Childhood](#)
- [Environmental Health - beta](#)
- [Family Planning](#)
- [Food Safety](#)
- [Genomics](#)
- [Health Communication and Health IT](#)
- [Healthcare-Associated Infections](#)
- [Heart Disease and Stroke - beta](#)
- [HIV - beta](#)
- [Maternal, Infant, and Child Health](#)
- [Medical Product Safety](#)
- [Mental Health and Mental Disorders](#)
- [Nutrition and Weight Status](#)
- [Occupational Safety and Health - beta](#)
- [Oral Health](#)
- [Physical Activity](#)
- [Preparedness](#)
- [Respiratory Diseases - beta](#)
- [Sexually Transmitted Diseases -beta](#)
- [Sleep Health](#)
- [Substance Abuse](#)
- [Tobacco Use](#)
- [Vision](#)

Beta search queries have not yet been reviewed by subject experts.

Structured Evidence Queries Under Development

- [Cancer](#)
- [Disability and Health](#)
- [Educational and Community-Based Programs](#)
- [Global Health](#)
- [Health-Related Quality of Life and Well-Being](#)
- [Hearing and Other Sensory or Communication Disorders](#)
- [Immunization and Infectious Diseases](#)
- [Injury and Violence Prevention](#)
- [Lesbian, Gay, Bisexual, and Transgender Health](#)
- [Older Adults](#)
- [Public Health Infrastructure](#)
- [Social Determinants of Health](#)

Outcomes

The Healthy People 2020 Structured Evidence Queries site is organized by HP2020 topic areas. At the current time, structured evidence queries for 289 health objectives in 23 topic areas have been formulated by librarians and reviewed by subject experts. 116 additional SEQs in 7 topic areas are undergoing expert review and available in beta version.

The site also provides search queries for the Healthy People 2020 Leading Health Indicators, a subset of high-priority health issues that represent significant threats to the public's health.

The SEQs are integrated with the HealthyPeople.gov website. Users retrieve the most recent research articles indexed for MEDLINE on Healthy People objectives each time a SEQ is selected and run in PubMed.

The search strategies can be modified in PubMed to address particular practice and research needs. Information on how to modify and save searches, obtain copies of articles, and receive assistance from the National Network of Libraries of Medicine is provided in the FAQ section of the website.

Additional resources on public health topics are available from the Partners in Information Access for the Public Health Workforce website, <http://PHPartners.org>.

Nutrition and Weight Status Objective NWS-10.4

<http://healthypeople.gov>

NWS-10.4	Reduce the proportion of children and adolescents aged 2 to 19 years who are considered obese	Close Details
Baseline:	16.1 percent of children and adolescents aged 2 to 19 years were considered obese in 2005-08	
Target:	14.5 percent	
Target-Setting Method:	10 percent improvement	
Data Source:	National Health and Nutrition Examination Survey (NHANES), CDC/NCHS	
More Information:	Data for this objective The HP2010 objective with the same definition was 19-03c. View on DATA2010	



PubMed Search Results

The screenshot shows the PubMed search results page. The search query is "Obesity/prevention and control[MAJR] AND United States[MeSH] AND human". The results are sorted by relevance, showing 1 to 20 of 173 results. The first result is "A community-based family intervention program to improve obesity in Hispanic families" by Ziebarth D, Healy-Haney N, Gnaedl B, Cronin L, Jones B, Jensen E, Viscuso M. The second result is "Parents of obese children and charges of child abuse: what is our response?" by Lang KR. The third result is "Reducing calories and added sugars by improving children's beverage choices" by Briefel RR, Wilson A, Cabili C, Hedley Dodd A. The fourth result is "Promoting the healthy life" by Kiser K. The fifth result is "Spirit of Excellence award for community-honorable mention, Education first, OSF St. Anthony focuses on childhood obesity" by Mod Healthc. The search details box is open, showing the search query and filters.

Use the PubMed filters sidebar to modify search results

- Narrow by:
- Article type
 - Full text
 - Publication date
 - Language
 - Sex
 - Ages

Find citations related to an article of interest

Register for a My NCBI account to save searches, customize search results, and receive automatic email updates of searches

Use the Search details box to view and change the search query

Conclusion

The HP2020 SEQs provide peer-reviewed research evidence to support national objectives for improving the health of all Americans. The search queries will be periodically updated and refined and will ultimately be available for all Healthy People 2020 objectives.

The resource is the outcome of an effective partnership between librarians, public health professionals, and subject experts.