

EQUAL ACCESS INITIATIVE:

HIV/AIDS Information Resources from the National Library of Medicine

United States Conference on AIDS
October 28, 2009





EQUAL ACCESS INITIATIVE:
HIV/AIDS Information Resources
from the National Library of Medicine

**A Training Course developed for the
Grant Recipients of the National Minority AIDS Council
2009 Equal Access Initiative Computer Grants**

**Presented at
United States Conference on AIDS
San Francisco, California
October 28, 2009**

Disclaimer

Every effort has been made to ensure that the screen graphics and the exercises in this document are up-to-date and accurate. However, due to the frequency of Web updates, they may have changed.

This document was prepared for the National Library of Medicine by the Oak Ridge Institute for Science and Education (ORISE) through an interagency agreement with the U.S. Department of Energy (DOE). ORISE is managed by Oak Ridge Associated Universities under DOE contract number DE-AC05-06OR23100.



The Oak Ridge Institute for Science and Education (ORISE) is a U.S. Department of Energy institute focusing on scientific initiatives to research health risks from occupational hazards, assess environmental cleanup, respond to radiation medical emergencies, support national security and emergency preparedness, and educate the next generation of scientists. ORISE is managed by Oak Ridge Associated Universities.

Preface

As the treatment and management of HIV/AIDS continues to evolve with new scientific breakthroughs, treatment discoveries, and management challenges, it is difficult for people living with HIV/AIDS and those who care for them to keep up with the latest information on HIV/AIDS prevention, treatment, and research. The National Library of Medicine, of the National Institutes of Health, has a wealth of health information resources freely available on the Internet to address these needs.

The *Equal Access Initiative: HIV/AIDS Information Resources from the National Library of Medicine* training is designed specifically for the **National Minority AIDS Council 2009 Equal Access Initiative (EAI) Computer Grants Program** awardees to provide valuable health information resources from the National Library of Medicine and other reliable sources to increase awareness of the wealth of treatment information and educational materials that are available on the Internet and to improve prevention and treatment education for their clients. These resources will also meet the needs of community-based organizations and AIDS service organizations that need the most accurate and up-to-date information about the management of HIV and AIDS, including clinical trials, HIV/AIDS drugs, treatment guidelines, and medical literature.

The workbook provided contains a brief summary of each NLM resource covered in the class followed by search exercises using realistic scenarios. Additional resources, selected for their quality and relevant content, are also included for your reference.

The EAI training is sponsored by the National Library of Medicine/National Institutes of Health, the National Minority AIDS Council, and the Office of AIDS Research, National Institutes of Health.



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

The National Library of Medicine (NLM), a part of the National Institutes of Health, is the world's largest medical library with a mission to collect and disseminate trustworthy, reliable health information to health care professionals, researchers, patients, and the public.



<http://www.nmac.org>

The National Minority AIDS Council (NMAC) is the premier national organization dedicated to developing leadership within communities of color to address the challenges of HIV/AIDS.



<http://www.oar.nih.gov>

The Office of AIDS Research (OAR) is located within the National Institutes of Health Office of the Director. OAR is responsible for the planning, coordination, evaluation, and funding of all NIH AIDS research and promotes collaborative research activities.

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Introduction

The screenshot shows the homepage of the National Library of Medicine (NLM). The header features the NLM logo and the text "United States National Library of Medicine National Institutes of Health" and "The World's Largest Medical Library". A navigation menu on the left lists various services and resources. The main content area includes a search bar, a "List of NLM Databases and Resources" link, and several featured articles and news items. A prominent "FLU.GOV" banner is displayed in the center, with a "VISIT FLU.GOV" button and a "SHARE THIS WINDOW" link. The right sidebar contains links to "PubMed", "MedlinePlus", "Household Products Database", and "Genetics Home Reference".

United States National Library of Medicine
National Institutes of Health

The World's Largest Medical Library

Contact NLM | Site Map | FAQs

Search NLM Web Site

Especially for:

- The Public
- Health Care Professionals
- Researchers
- Librarians
- Publishers

Current Health News

[Eating in America Still Unhealthy](#) (09/30/09)

[Obese Middle-Aged Women Face Unhealthy Future](#) (09/30/09)

[Social Status As a Teen Predicts Health As an Adult](#) (09/30/09)

[More Health News](#)

NLM News and Press Releases

[NLM Presents Eminent Experts at Darwin Symposium, October 1st](#) (09/30/09)

[NLM Salutes National Center for Health Statistics on 50th Anniversary of National Health and Nutrition Examination Survey \(NHANES\)](#) (09/29/09)

[Participants in Leadership Fellows Program Announced](#) (09/16/09)

[New Web Site Promotes Interoperable Newborn Screening Data](#) (09/16/09)

[More NLM News](#)

FLU.GOV
Know what to do about the flu.

[Related Links: view a list of links for more information about 2009 H1N1 Flu](#)

Free Film Series 2009

Darwin Year: Free Film Series
Wednesdays, noon* & 6pm
September 16 - October 28
*1pm & 6pm on 9/16 only

On Exhibit at NLM

Against the Odds
Against the Odds: Making a Difference in Global Health

Director's Comments

Listen to what's new in consumer health on [MedlinePlus](#)

List of NLM Databases and Resources

PubMed®
Biomedical journal literature from MEDLINE/PubMed

MedlinePlus®
Health and drug information for patients, family and friends

Images from the History of Medicine
View prints, photographs, posters and other images

Household Products Database
Health and safety information on household products

Genetics Home Reference
Genetic conditions in everyday language

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

Introduction

Purpose

The purpose of this training is to familiarize participants with reliable online health information from the National Library of Medicine (NLM) and other reputable resources that address HIV/AIDS and related medical conditions. Skills and knowledge acquired in this training class will enable representatives of community organizations to effectively access treatment and prevention information to better serve their clients, colleagues, and communities.

Objectives

After completing this course, participants will be able to:

- ▶ Identify and evaluate quality, accurate, and authoritative online resources pertaining to HIV/AIDS and related medical conditions
- ▶ Demonstrate the ability to perform strategic search techniques in order to find HIV/AIDS treatment and prevention, treatment and research information
- ▶ Apply the skills and knowledge obtained in this course to their organization's health information needs

NLM Online Resources Covered in this Workbook

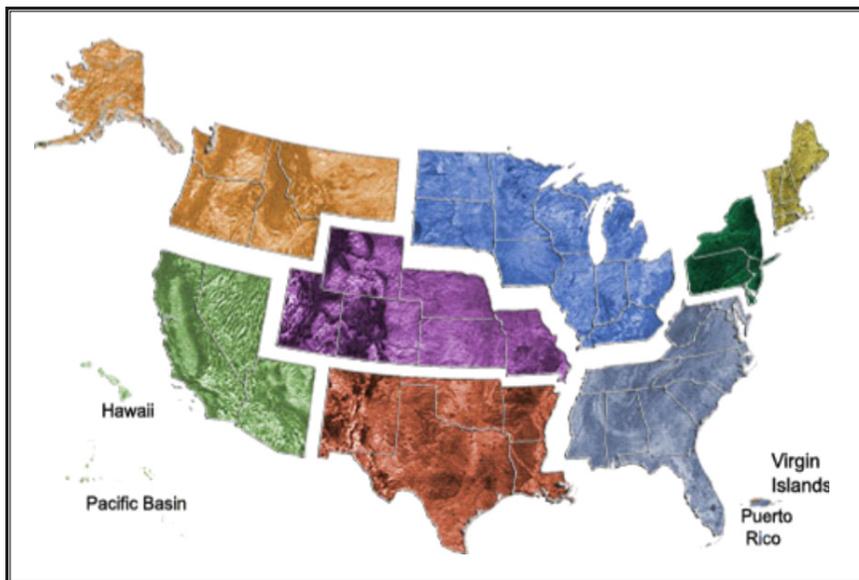
The following key medical information resources are covered in depth with search exercises and suggested solutions that can be used for hands-on practice:

- ▶ **AIDSinfo**—a Department of Health and Human Services Web site that provides the latest federally approved treatment guidelines for health care professionals as well as additional information on treatment, prevention and research for both health care providers and consumers
- ▶ **ClinicalTrials.gov**—regularly updated information about federally and privately supported clinical research for a wide range of diseases and conditions, including locations and phone numbers for more details
- ▶ **MEDLINE/PubMed**—access to more than 19 million references to journal articles published in 5,200 journals in the fields of medicine and the life sciences
- ▶ **MedlinePlus**—a consumer health information resource, including full-text documents on over 800 medical topics, information on drugs, a medical encyclopedia, medical dictionaries, and directories of libraries, hospitals, and health care professionals

- ▶ **NLM Gateway**—a Web-based search interface that allows users to search simultaneously in multiple NLM retrieval systems, providing “one-stop searching” for many of NLM’s information resources and databases
- ▶ **DIRLINE**—an online directory of more than 8,500 health-related organizations offering information and referral for many diseases and conditions

NLM Database Assistance

Please refer to the inside back cover of this workbook for valuable information on NLM database assistance from the NLM online, by phone, and by e-mail as well as information on contacting your National Network of Libraries of Medicine (NN/LM) Regional Medical Library. The regional libraries work closely with NLM to provide equal access to biomedical information. The map to the right illustrates the eight regions of the NN/LM.



NN/LM Regions

Basic Internet Skills

The screenshot shows the homepage of the National Library of Medicine (NLM). The header features the NLM logo and the text "United States National Library of Medicine National Institutes of Health" and "The World's Largest Medical Library". A navigation menu on the left lists various categories such as "Health Information", "Library Catalog & Services", "History of Medicine", "Online Exhibitions & Digital Projects", "Human Genome Resources", "Biomedical Research & Informatics", "Environmental Health & Toxicology", "Health Services Research & Public Health", "Health Information Technology", "About the National Library of Medicine", "Grants & Funding", "Training & Outreach", and "Network of Medical Libraries". The main content area includes a search bar, a "List of NLM Databases and Resources" section with links to PubMed, MedlinePlus, Images from the History of Medicine, Household Products Database, and Genetics Home Reference, and a "Current Health News" section with articles like "Eating in America Still Unhealthy" and "Obese Middle-Aged Women Face Unhealthy Future". A prominent "FLU.GOV" banner is displayed in the center, with a "VISIT FLU.GOV" button and a "SHARE THIS WEBSITE" link. The footer contains a "Director's Comments" section with a photo of a man and the text "Listen to what's new in consumer health on MedlinePlus".

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

Basic Internet Skills

What is the Internet? . . . the World Wide Web?

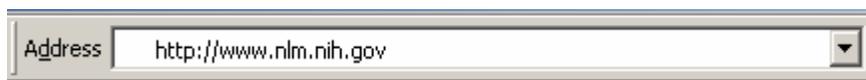
The Internet and the World Wide Web (Web) are not the same thing. The Internet is a worldwide network of computer networks that can all “talk” to each other using languages called “protocols.” The Web is only one portion of the Internet, the best known part, and is viewed with a graphical interface software called a “browser.”

Two commonly used browsers are Microsoft Explorer and Mozilla Firefox. Before you can use the Internet, you must find and contract with an Internet Service Provider (ISP). An ISP provides access to the Internet over a telephone line, a digital subscriber line (DSL), or cable.

See the **Additional Resources** section for links to Web sites with more detailed information on these topics.

Basic Navigation

Every Web site has a unique address, called a “Uniform Resource Locator” or URL. If you know the URL, you can type it directly into the address field of your browser. For example:



Let’s look more closely at the URL. The basic components of a URL are:

- ▶ the protocol name (**http://**),
- ▶ the server name (**nlm.nih.**), and
- ▶ the domain name (**gov**).

This basic URL will get you to a Web site’s home page. Note that not all URLs begin with “www.” For example, the URL for NLM’s MedlinePlus Web site is **http://medlineplus.gov**.

If you are going to a sub-page or a document on a Web site’s server, there will be additional components, as in the URL shown below: a directory name (**portals**) and/or a filename: (**public.html**).



Every Web browser has a navigation toolbar at the top of the page with buttons and menus that you can use to perform commands. The toolbar can be customized to make the buttons large or small and to add, remove, or change the order of the buttons. Microsoft Explorer’s navigation toolbar looks like this:

Domain Names

.com	commercial
.edu	educational
.gov	government
.net	network host
.org	non-profit organization

A state within the U.S.:

.tn.us	Tennessee
--------	-----------

Some International domain names:

.au	Australia
.de	Germany
.it	Italy



- Click... **Back**...to return to the last page you viewed
Forward...to return to a page you viewed before clicking the **Back** button
Stop...to cancel opening a new page
Refresh...to re-open (reload) the page
Home...to go to your starting page (can be customized)
Search...to find another Web page to view
Favorites...to go to pages you have “bookmarked”
History...to view pages you have visited recently
Print...to print the page you are viewing
Mail...to e-mail the page to someone

In addition to the buttons on the toolbar, there are menus that can be used to perform many more functions. The buttons are actually shortcuts to some of the menu commands.



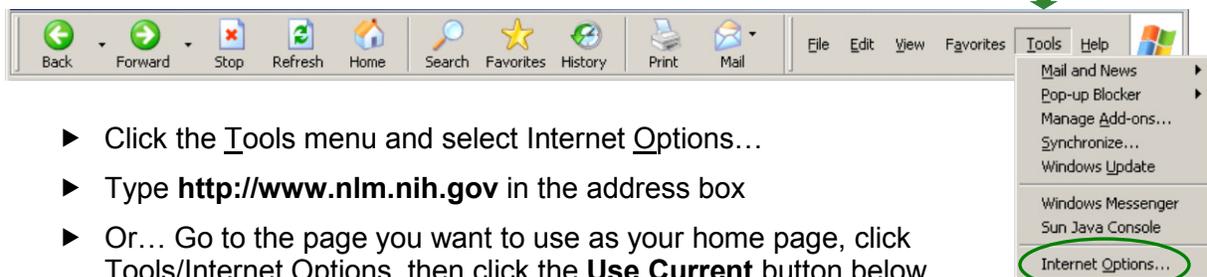
- Click... **E**dit, and then **F**ind (on This Page)...to find key words on the page you are viewing
View, and then **T**ext **S**ize...to increase or decrease the text size on the page
Favorites...to bookmark a Web page or to organize your bookmarks
Tools, and then **I**nternet **O**ptions...to customize your browser
Help...for help in how to use the Internet with your Web browser

Example: Bookmarking the National Library of Medicine Web site using the Favorites menu.

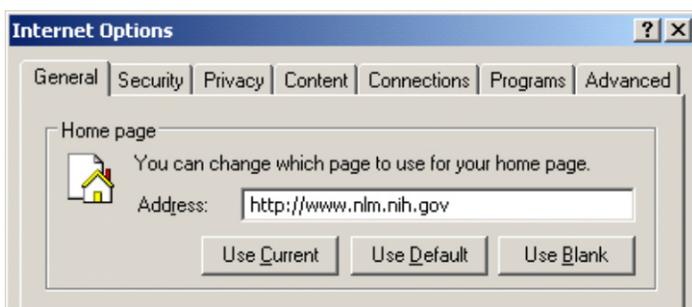


- ▶ Go to **http://www.nlm.nih.gov**
- ▶ Click the **F**avorites menu and select **A**dd to Favorites

Example: Changing your browser's home page to the National Library of Medicine.



- ▶ Click the Tools menu and select Internet Options...
- ▶ Type **http://www.nlm.nih.gov** in the address box
- ▶ Or... Go to the page you want to use as your home page, click Tools/Internet Options, then click the **Use Current** button below the address box



Printing Web Pages

To print the Web page you are on, you may click the print button on the navigation toolbar or click the File menu and select Print... but be aware that the page may not print as it appears on screen. For this reason, it is best to print via the file menu, which will open your print dialog box and allow you to set preferences, whereas using the print button will send the page directly to your default printer using its default settings.

Tips for Printing Web Pages:

- 1) One Web page can be many printed pages.
- 2) Use Print Preview (from the File menu) to see how many pages will print
- 3) The Web page may have “frames.” Click your cursor in the frame you wish to print before printing.

About Adobe PDF and Adobe Reader

Adobe Portable Document Format (PDF) is a universal file format that has become an international standard for electronic document distribution. Created by Adobe Systems, Inc., PDF allows users to print files as they appear on screen, keeping page numbering and graphics intact. Adobe offers the

free Adobe Reader® program so that anyone can view and print PDF files. To install Adobe Reader, go to <http://www.adobe.com/downloads> and click the **Get ADOBE® READER®** icon.



Tip: Click [System requirements](#) to review the system requirements before downloading and installing the program. To continue, click the [Download Now](#) link below Next Steps, and follow the online instructions.

Adobe Reader has its own toolbar with buttons that allow you to print, save, e-mail, go to the next or previous page, select text and graphics for copying, zoom, sign, and find a word or phrase in the document. The page indicator is also in the toolbar.



Additional buttons on the left allow you to navigate the document, view attachments, and view/reply to any comments left by the person who sent the document to you.

Tip: Use the buttons on the Adobe Reader toolbar (not your Web browser's toolbar) to **Print** and **Save** PDF files.

World Wide Web Search Tools

The primary tools for finding information on the Web are search directories, search engines, and metasearch engines. For a specific list of selected World Wide Web search tools, see page ___.

- ▶ **Search Directory:** Organized by subject and generally smaller than search engines because they are edited by people.
- ▶ **Search Engine:** A software program that indexes documents based on search requests by users. To be included, sites must be submitted by their owners.
- ▶ **Metasearch Engine:** A search engine that queries other search engines and combines the results into one list.

YOUR SEARCH STRATEGY

PLAN!

- ▶ What are you looking for?
- ▶ Is the Web the best place to find the information?

ACT!

- ▶ Know which search tools to use.

REVIEW!

- ▶ Did the information you find answer your question?
- ▶ Do you need to redefine, narrow, or expand your topic?

How to Construct a Search

Before executing a search, you should first formulate your search question. For example, you could ask:

- ▶ What information is available about treatment options for children with HIV?

Next, identify the important concepts within the question:

- ▶ children, hiv, treatment

Then, identify the search terms to describe those concepts:

- ▶ children, hiv, treatment

Consider synonyms and variations of those terms:

- ▶ children, childhood, juvenile, youth, child, adolescent

In most cases, you want your search results to contain all terms, and the default for most databases is to retrieve records that contain all terms. When entering your chosen terms in the search box, separate them by one space as in the following example:



Boolean Searching

In Boolean logic, the commands “AND,” “OR,” and “NOT” are used to include or exclude search terms. In the matrix below, each search term is represented by a circle to illustrate the concepts.

<p>hiv AND aids</p> <ul style="list-style-type: none"> ▶ Retrieves only those records common to the selected sets 	
<p>hiv OR aids</p> <ul style="list-style-type: none"> ▶ Retrieves sets of records that may, but need not, have elements in common 	
<p>hiv NOT aids</p> <ul style="list-style-type: none"> ▶ Retrieves a set of records from which one or more elements have been excluded 	
<p>(hiv OR aids) AND flu</p> <ul style="list-style-type: none"> ▶ Use nested parentheses when using more than one Boolean operator 	

Narrowing a Search

To narrow a search on apples:

- ▶ Add more words: apples macintosh
- ▶ Search as a phrase: “apples macintosh”
- ▶ Exclude words: apples NOT macintosh

Broadening a Search

To broaden a search on macintosh apples:

- ▶ Use a broader term: apples
- ▶ Use fewer words
- ▶ Do not search as a phrase
- ▶ Do not exclude words

Additional Resources

For further information, we recommend these additional resources:

- ▶ The List:
<http://www.thelist.com>
- ▶ Browsers (c|net Download.com):
<http://www.download.com/2001-2137-0.html>
- ▶ Internet Navigator Glossary:
<http://www-navigator.utah.edu/library/glossary.htm>
- ▶ Sink or Swim: Internet Search Tools and Techniques:
<http://www.langara.bc.ca/libtech/sinkorswim/search.htm>
- ▶ Web Junction:
<http://www.webjunction.org>

Selected World Wide Web Search Tools

Major Search Directories and Search Engines

- ' AllTheWeb.com <http://www.alltheweb.com>
- ' AltaVista.com <http://altavista.com>
- ' Ask.com <http://ask.com>
- ' Bing.com <http://www.bing.com>
- ' Google <http://www.google.com>
- ' HotBot <http://www.hotbot.com>
- ' MSN Search <http://search.msn.com>
- ' Yahoo! <http://www.yahoo.com>

Meta Search Engines

- ' Dogpile <http://www.dogpile.com>
- ' InfoGrid <http://www.infogrid.com>
- ' Infonetware RealTerm Search <http://www.infonetware.com>
- ' Ixquick <http://www.ixquick.com>
- ' KartOO <http://www.kartoo.com>
- ' Mamma <http://www.mamma.com>
- ' Query Server <http://www.queryserver.com>
- ' SurfWax <http://www.surfwax.com>
- ' Vivisimo <http://vivisimo.com>

Miscellaneous

- ' Search Engine Watch – Information for Web Designers
<http://www.searchenginewatch.com>
- ' CataList – Reference Site for LISTSERV® lists
<http://www.lsoft.com/lists/listref.html>

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Finding Quality Health Information on the Internet

United States
National Library of Medicine
National Institutes of Health

The World's Largest Medical Library

Contact NLM | Site Map | FAQs

Search NLM Web Site

List of NLM Databases and Resources

PubMed®
Biomedical journal literature from MEDLINE/PubMed
[VISIT SITE](#)

MedlinePlus®
Health and drug information for patients, family and friends
[VISIT SITE](#) [ESPAÑOL](#)

Images from the History of Medicine
View prints, photographs, posters and other images
[VISIT SITE](#)

Household Products Database
Health and safety information on household products
[VISIT SITE](#)

Genetics Home Reference
Genetic conditions in everyday language
[VISIT SITE](#)

Epecially for:

- The Public
- Health Care Professionals
- Researchers
- Librarians
- Publishers

Current Health News

[Eating in America Still Unhealthy](#) (09/30/09)
[Obese Middle-Aged Women Face Unhealthy Future](#) (09/30/09)
[Social Status As a Teen Predicts Health As an Adult](#) (09/30/09)
[More Health News](#)

NLM News and Press Releases

[NLM Presents Eminent Experts at Darwin Symposium, October 1st](#) (09/30/09)
[NLM Salutes National Center for Health Statistics on 50th Anniversary of National Health and Nutrition Examination Survey \(NHANES\)](#) (09/29/09)
[Participants in Leadership Fellows Program Announced](#) (09/16/09)
[New Web Site Promotes Interoperable Newborn Screening Data](#) (09/16/09)
[More NLM News](#)

FLU.gov
Know what to do about the flu.
[VISIT FLU.GOV](#)
USDEPARTMENTOFHEALTH

[Related Links: view a list of links for more information about 2009 H1N1 Flu](#)

NLM and the Recovery Act

Free Film Series 2009

Darwin Year: Free Film Series
Wednesdays, noon* & 6pm
September 16 - October 28
*1pm & 6pm on 9/16 only

On Exhibit at NLM

Against the Odds:
Making a Difference in Global Health

Director's Comments

Listen to what's new in consumer health on MedlinePlus

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

Finding Quality Health Information on the Internet

The World Wide Web contains an abundance of free health information, available 24 hours per day. Finding health information online is easy, but how do we know that the information we find is reliable and trustworthy?



Link to
List of NLM's
Databases
& Resources

Evaluating Internet Resources

The **National Library of Medicine (NLM)** is a good place to start to find trustworthy, up-to-date health information. Beyond that, there are some important questions you can ask yourself to determine if a site is trustworthy. Briefly, the categories you should consider are the following:

- ▶ **Authority and Accuracy**
- ▶ **Coverage**
- ▶ **Currentness**
- ▶ **Objectivity**
- ▶ **Design Features**

“Savvy Health Surfing,” developed by the National Library of Medicine, contains a complete list of the questions that should be asked in each category. You will find this pull-out reference sheet in the back of this workbook.

Additional Resources

For further information, we recommend these additional resources:

- ▶ HON Code of Conduct for Medical and Health Web Sites
<http://www.hon.ch/HONcode>
- ▶ Evaluating Internet Health Information: A Tutorial from the National Library of Medicine
<http://www.nlm.nih.gov/medlineplus/webeval/webeval.html>
- ▶ MedlinePlus—Evaluating Health Information
<http://www.nlm.nih.gov/medlineplus/evaluatinghealthinformation.html>
- ▶ National Network of Libraries of Medicine—Is this health information good for me?
<http://nnlm.gov/pnr/hip/criteria.html>
(en Español: <http://nnlm.gov/pnr/hip/informacion.html>)
- ▶ Quackwatch
<http://www.quackwatch.com>



Savvy Health Surfing Exercises

Review the following Web sites and determine if each is reliable according to the Savvy Health Surfing criteria discussed in class.

	Authority/ Accuracy	Coverage	Currentness	Objectivity	Design
1: http://www.thinktwice.com					
2: http://www.hivpositive.com					
3: http://www.healthfree.com					
4: http://www.malepregnancy.com					
5: http://www.drkoop.com					
6: http://www.drugs.com					
7: http://www.thebody.com					
8: http://nisa-sids.org					
9: http://www.uoaa.org					
10: http://www.webmd.com					
11: http://www.drclark.net					
12: http://www.aaem.com					
13: http://www.medicalacupuncture.org					
14: http://www.amaasportsmed.org					
15: http://www.bonetumor.org					
16: http://www.biausa.org					
17: http://www.connectforkids.org					

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AIDSinfo

AIDSinfo and SIDA
A Service of the U.S. Department of Health and Human Services

Offering information on HIV/AIDS Treatment, Prevention, and Research

Live Help | Subscribe to Listserv | Español | Site Tour

Search: **Go**

E-mail: 1-800-HIV-0440 (1-800-445-0440)

[Guidelines](#) | [Drugs](#) | [Clinical Trials](#) | [Vaccines](#) | [Health Topics](#) | [More AIDSInfo](#)

GUIDELINES
Guidelines for the treatment of HIV/AIDS, reviewed and updated by experts in the field:
• Treatment / Prevention Guidelines
• Download / Order
• PDA Tools

DRUGS
Fact sheets on HIV/AIDS-related drugs:
• Search the Drug Database
• FDA-Approved Drugs
• Investigational Drugs

CLINICAL TRIALS
Find research studies on drugs, vaccines, and other new or existing treatments for HIV/AIDS:
• Search for Clinical Trials
• New HIV/AIDS Trials

VACCINES
Information on preventative and therapeutic HIV vaccine research:
• Preventive HIV Vaccines
• Therapeutic HIV Vaccines
• Search for Vaccine Trials

HEALTH TOPICS
Find resources on HIV/AIDS-related topics:
• Resources
• Fact Sheets
• Microbicides: Drug Info and resources

MORE AIDSINFO
More useful AIDSInfo features:
• RSS Feeds
• Live Help
• Order Publications
• PDA Tools
• HIV/AIDS Glossary
• Translation Tool

What's New on AIDSInfo

Highlights

- Statement by Dr. Howard Koh, Assistant Secretary of Health, HHS on National Gay Men's HIV/AIDS Awareness Day - September 27, 2009
- HIV Vaccine Regimen Demonstrates Modest Preventive Effect in Thailand Clinical Study - September 24, 2009
- Statement by NIAID Director Fauci, NIA Director Hodes, and OAR Director Whitescarver on National HIV/AIDS and Aging Awareness Day - September 19, 2009
- More...

Features

- Live Help
- Add AIDSInfo to Your WebSite
- Homework Help

Receive updates, HIV/AIDS news, and treatment guidelines updates
Subscribe to Listserv

<http://aidsinfo.nih.gov>

AIDSinfo

AIDSinfo is a Department of Health and Human Services Web site that provides the latest federally approved treatment guidelines for health care professionals as well as additional information on treatment, prevention, and research for health care providers and consumers. A comprehensive Spanish version (*infoSIDA*) is also available.

The screenshot shows the AIDSinfo website interface. Key features are annotated with red lines and boxes:

- Live Help:** Located in the top right corner of the website header.
- Navigation Tabs:** A horizontal menu containing 'Guidelines', 'Drugs', 'Clinical Trials', 'Vaccines', 'Health Topics', and 'More AIDSinfo'.
- Search Categories:** A vertical list on the left side of the main content area, including 'GUIDELINES', 'DRUGS', 'CLINICAL TRIALS', 'VACCINES', 'HEALTH TOPICS', and 'MORE AIDSINFO'.
- Subscribe to Listserv:** A button located in the bottom right corner of the website.

<http://aidsinfo.nih.gov>

Organization and Features

AIDSinfo is organized around six main categories:

- ▶ **Guidelines**—federally approved HIV treatment and prevention guidelines for HIV infection and AIDS-related illnesses, including the prevention of HIV transmission from occupational exposure, mother-to-child transmission during pregnancy, and prevention and treatment of HIV-related opportunistic infections
- ▶ **Drugs**—records for FDA-approved and investigational HIV/AIDS-related drugs: Patient, Health Professional, and Spanish versions
- ▶ **Clinical Trials**—information on federally and privately funded clinical trials evaluating experimental drugs and other therapies for adults and children at all stages of HIV infection

- ▶ **Vaccines**—information on preventive and therapeutic HIV/AIDS vaccine research
- ▶ **Health Topics**—resources for both patients and health care providers on HIV/AIDS-related topics

Additional features offered under **More AIDSinfo** include:

- ▶ **RSS Feeds**—updates from the weekly *AIDSinfo* newsletter and the drug database
- ▶ **Publications**—print, electronic, and PDF versions of *AIDSinfo* publications (single copies of print publications are free)
- ▶ **At-a-Glance Newsletter Archives**—database of back issues of *AIDSinfo*'s electronic newsletter.
- ▶ **Live Help**—confidential one-on-one assistance via the Internet from health information specialists
- ▶ **Homework Help**—resources and references for learning and writing papers about HIV and AIDS for school projects
- ▶ **HIV/AIDS Glossary**—definitions of HIV/AIDS-related terms in English and Spanish
- ▶ **PDA Tools**—Treatment Guidelines for Pocket PC (MS-Windows-based) and Palm PDAs
- ▶ **Translation Tool**—English and Spanish translations of HIV-related terms

Searching AIDSinfo

To search *AIDSinfo*, you can type your search term in the search box at the top of any *AIDSinfo* page or search directly for the type of information you want by clicking the appropriate navigation tab:



[AIDSinfo Drugs Database](#)

Search on drug name, drug class, or approval status, or search alphabetically.

[AIDSinfo Clinical Trials Database](#)

Search on words, conditions, drugs, or locations, or browse by trial category.

Additional Resources

For further information, we recommend these additional resources:

- ▶ *AIDSinfo* Brochure
http://aidsinfo.nih.gov/contentfiles/ai_brochure.pdf
- ▶ *AIDSinfo* Workbook
http://nml.gov/training/consumer/nlm_databases/chdatabases_aids.doc
- ▶ *AIDSinfo* Glossary
http://aidsinfo.nih.gov/ContentFiles/GlossaryHIV-relatedTerms_FifthEdition_en.pdf
- ▶ *AIDSinfo* Glossary Spanish version (Glosario del VIH/SIDA)
http://www.aidsinfo.nih.gov/ContentFiles/SpanishGlossary_sp.pdf
- ▶ *infoSIDA* (Spanish *AIDSinfo* Web site)
<http://aidsinfo.nih.gov/infosida>



AIDSinfo Search Exercises

Search Example: Locate the latest guidance on HIV testing, counseling, and referral.

Suggested Solution:

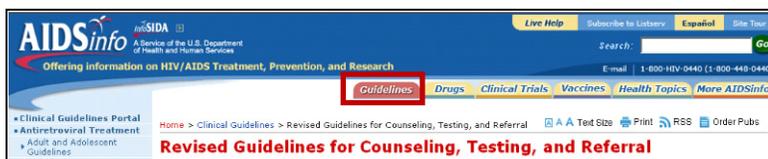
- ▶ Go to <http://aidsinfo.nih.gov>
- ▶ Click **GUIDELINES**

- ▶ Click Revised Guidelines for Counseling, Testing, and Referral under **Testing** in the menu bar to the left

- ▶ Click the link "HTML Version (1 KB)" to open and review the document

- ▶ Review the document and close the CDC window

- ▶ Click the Guidelines tab to return to the Clinical Guidelines Portal



Search Exercises: Guidelines

Exercise 1: Locate treatment guidelines for pregnant women exposed to Novel Influenza A (H1N1).

Suggested Solution:

- Click [Perinatal Guidelines](#) under “**Maternal-Child Transmission**” in the menu bar to the left
- Click [PDF Version \(100 KB\)](#) under CDC guidelines for Pregnant Women and Novel Influenza A (H1N1): Considerations for Clinicians
- Review the document and close the pop-up window
- Click the **Guidelines** tab to return to the Clinical Guidelines Portal

Exercise 2: Review the most recent Guidelines News topic. Next, subscribe to the AIDSinfo Listserv (optional).

Suggested Solution:

- Click the first topic in the **Guidelines News** box at the top right of the page
- Review the information
- Click your browser’s **Back** button to return to the **Clinical Guidelines Portal** or close the pop-up window
- Click [Subscribe to Listserv](#) at the top right of the page
- Follow the directions for subscribing to the Listserv
- Click the **Guidelines** tab to return to the **Clinical Guidelines Portal**

Exercise 3: Conduct a keyword search for Antiretroviral naive of the Adult and Adolescent guidelines. Review the “Considerations for Antiretroviral Use in Special Patient Populations” section of the guidelines.

Suggested Solution

- Click [Adult and Adolescent Guidelines](#) under Antiretroviral Treatment in the menu bar to the left
- Click [Search](#) under Guidelines for the Use of Antiretroviral Agents in HIV-1-Infected Adults and Adolescents - January 29, 2008

Type	“ ant ” in the search box  You will get a drop-down menu populated with keywords that contain the same root letters
Select	<u>Antiretroviral naive</u> from the list
Click	Go
Click	Considerations for Antiretroviral Use in Special Patient Populations
Review	the guidelines and close the pop-up window
Click	the Guidelines tab to return to the Clinical Guidelines Portal

Exercise 4: Perform a Guidelines search of your choice. Return to the AIDSinfo home page by clicking the AIDSinfo logo in the top left corner of the page.

Search Exercises: Drugs

Exercise 5: What class of HIV/AIDS drug is FTC? Are there any other names for it? Compare the patient version of the record to the health professional version.

Suggested Solution:

Click	the Drugs tab at the top of the page
Type	FTC in the “Drug Name” search box under Search the Drug Database
Click	the Search button
Click	<u>FTC (Emtriva)</u> under FDA-approved Drugs  The page defaults to the Patient Version
Review	the information in the Patient Version
Click	Health Professional Version and review the information  Note the difference in the detail of information given in the health professional version versus that given in the patient version.
Click	the Drugs tab to return to the AIDSinfo Drug Database

Exercise 6: Should *Tenofvir DF* be taken with food? Use the alphabetical search feature.

Suggested Solution:

Click	<u>T</u> under Alphabetical Search
Click	<u>Tenofvir disoproxil fumarate</u>
Click	Health Professional Version  Detailed Information is provided only in the health professional version.

Scroll to the Drug and Food Interactions section and review the information
 Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

Exercise 7: The FDA recently approved *Maraviroc*, an antiretroviral drug. What are the most common side effects associated with *Maraviroc*?

Suggested Solution:

Type **maraviroc** in the **Drug Name** search box
 Click the **Search** button
 Click **Maraviroc (Selzentry)**
 Review the information in the **Possible Side Effects** section
 Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

Exercise 8: Using the alphabetical search feature, review the Spanish patient record for *Darunavir*.

Suggested Solution:

Click D under Alphabetical Search
 Click Darunavir
 Click **Spanish Version**
 Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

Exercise 9: View the list of FDA-approved and investigational entry and fusion inhibitors. Review the clinical trial status of one of the investigational drugs.

Suggested Solution #1:

Click Entry and Fusion Inhibitors from the **Drug Class** pull-down menu
 Click the **Search** button
 Review the list of drugs retrieved
 Click the investigational drug of your choice
 Scroll to the **Clinical Trials** section and click “here” to search ClinicalTrials.gov for trials that use the selected drug
 Review the clinical trial record(s) and close the ClinicalTrials.gov window
 Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

Suggested Solution #2:

Click Entry and Fusion Inhibitors under “**FDA-approved Drugs**” in the menu bar to the left

-  Note the drug names that appear below the link in the menu bar
- Click [Entry and Fusion Inhibitors](#) under “**Investigational Drugs**”
- Click the investigational drug of your choice
- Scroll to the **Clinical Trials** section and click “here” to search ClinicalTrials.gov for trials that use the selected drug
- Review the clinical trial record(s) and close the ClinicalTrials.gov window
- Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

Exercise 10: What is the maximum recommended daily dose of Nevirapine for children? Review both the patient and health professional versions of the record for this drug.

Suggested Solution:

- Type **nevirapine** in the **Drug Name** search box
- Click the **Search** button
- Click [Nevirapine \(Viramune\)](#)
- Review the Recommended Daily Dosage section in the patient record
- Click [Health Professional Version](#) and review the dosing information

Search Exercises: Clinical Trials

Exercise 11: Find all HIV/AIDS trials in your home state.

Suggested Solution:

- Click the **Clinical Trials** tab at the top of the page
- Select your home state from the pull-down menu under **Create your own Search**
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser’s **Back** button or close the pop-up window to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

Exercise 12: Are there any studies investigating kidney complications of HIV/AIDS?

Suggested Solution:

- Type **kidney disease** in the “Contain the word(s)” search box under **Create your own Search**
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice

- Click your browser's **Back** button or close the pop-up window to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

Exercise 13: Are there any clinical trials studying pregnancy and transmission of HIV?

Suggested Solution:

- Type **pregnancy AND transmission** in the "Contain the word(s)" search box under **Create your own Search**
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser's **Back** button or close the pop-up window to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

Exercise 14: Are there any clinical trials studying Kaposi's sarcoma's response to Haart?

Suggested Solution:

- Type **kaposi's sarcoma** in the "Contain the word(s)" search box under **Create your own Search**
- Type **haart** in the "use the drug" search box
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser's **Back** button or close the pop-up window to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

Exercise 15: Browse the listing of studies investigating the use of alternative and complementary medicine.

Suggested Solution:

- Click [Alternative/Complementary medicine](#) to the left of the page under **Browse Trial by Category**
- Review a study or studies of your choice

This page is intentionally blank.

ClinicalTrials.gov

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

[Home](#) [Search](#) [Study Topics](#) [Glossary](#)

ClinicalTrials.gov is a registry of federally and privately supported clinical trials conducted in the United States and around the world. ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details. This information should be used in conjunction with advice from health care professionals. [Read more...](#)

- ▶ **Search for Clinical Trials**
Find trials for a specific medical condition or other criteria in the ClinicalTrials.gov registry. ClinicalTrials.gov currently has **79,387** trials with locations in **171** countries.
- ▶ **Investigator Instructions**
Get instructions for clinical trial investigators/sponsors about how to register trials in ClinicalTrials.gov. Learn about mandatory registration and results reporting requirements and US Public Law 110-85 (FDAAA).
- ▶ **Background Information**
Learn about clinical trials and how to use ClinicalTrials.gov, or access other consumer health information from the US National Institutes of Health.

Resources:

- [Understanding Clinical Trials](#)
- [What's New](#)
- [Glossary](#)

Study Topics:

- [List studies by Condition](#)
- [List studies by Drug Intervention](#)
- [List studies by Sponsor](#)
- [List studies by Location](#)



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[USA.gov](#) [Copyright](#) [Privacy](#) [Accessibility](#) [Freedom of Information Act](#)





<http://clinicaltrials.gov>

ClinicalTrials.gov

ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers, including the trial's purpose, who may participate, locations where trials are held, contact information, and whether or not the trial is currently recruiting participants. The database currently contains information on more than 79,000 trials with locations in 171 countries.



Searching ClinicalTrials.gov

Click [Search for Clinical Trials](#) on the home page to access the search page. The system defaults to the Basic Search screen (see below). Type your search term(s) in the search box provided and click the **Search** button.



Basic Search Screen

Click the **Advanced Search** tab, or the [Advanced Search](#) link below the search box, to search using more specific search criteria. For example, you can limit your search to disease or condition, outcome measures, sponsor, state or country of the trial, study type, age group of the participants, and much more. From the List Results screen, you can refine your search by adding more search terms, or click [Display Options](#) to select fields to display within your search results.

Advanced Search Screen

List Results Screen

List Results Screen with Display Options

You may also browse ClinicalTrials.gov by condition (or disease), drug intervention, trial sponsor, and trial location.

Additional Resources

For further information, we recommend these additional resources:

- ▶ NLM Training: NLM Gateway and ClinicalTrials.gov
<http://www.nlm.nih.gov/pubs/manuals/gwclintrials.pdf>
- ▶ Prescription for Success: Consumer Health Information on the Internet
<http://nnlm.gov/training/consumer/prescription/>
- ▶ NLM's Consumer Health Databases (National Network of Libraries of Medicine)
http://nnlm.gov/training/consumer/nlm_databases/
- ▶ ClinicalTrials.gov Background Information and Other Consumer Health Information
<http://clinicaltrials.gov/ct2/info>



ClinicalTrials.gov Search Exercises

Search Example: Has *Nelfinavir*, a protease inhibitor used to treat HIV infection, been studied as a treatment for a certain cancer?

Suggested Solution:

- ▶ Go to <http://clinicaltrials.gov>
- ▶ Click **Search for Clinical Trials**

The screenshot shows the ClinicalTrials.gov homepage. At the top, there are navigation links: Home, Search, Study Topics, and Glossary. Below the header, there is a search bar with a 'Search' button. The main content area includes a description of the site, a 'Resources' section with links like 'Understanding Clinical Trials' and 'What's New', and a 'Study Topics' section. The 'Search for Clinical Trials' link is highlighted with a red box.

- ▶ Type **nelfinavir cancer** in the search box
- ▶ Click the **Search** button

The screenshot shows the search interface on ClinicalTrials.gov. There are tabs for 'Basic Search', 'Advanced Search', 'Studies by Topic', and 'Studies on Map'. Below the tabs, there is a text input field with the example text 'Example: Heart Attack AND Los Angeles'. The search box contains 'nelfinavir cancer' and the 'Search' button is highlighted with a red box.

- ▶ Review record(s) of your choice

The screenshot shows the search results page for 'nelfinavir cancer'. It displays 'Found 19 studies with search of: nelfinavir cancer'. There are tabs for 'List Results', 'Refine Search', 'Results by Topic', 'Results on Map', and 'Search Details'. The first result is highlighted with a red box:

Rank	Status	Study
1	Recruiting	Nelfinavir, a Phase I/Phase II Rectal Cancer Study Conditions: Colorectal Cancer, Colorectal Carcinoma, Colorectal Tumors; Neoplasms, Colorectal Intervention: Drug: nelfinavir
2	Recruiting	Nelfinavir in Treating Patients With Metastatic, Refractory, or Recurrent Solid Tumors Conditions: Colorectal Cancer, Gastrointestinal Carcinoid Tumor, Head and Neck Cancer, Islet Cell Tumor, Lung Cancer, Metastatic Cancer, Neuroendocrine Carcinoma of the Skin, Ovarian Cancer, Pheochromocytoma, Sarcoma, Unspecified Adult Solid Tumor, Protocol Specific Interventions: Drug: midazolam hydrochloride, Drug: nelfinavir mesylate, Genetic: gene expression analysis, Genetic: polymerase chain reaction, Genetic: protein expression analysis, Other: immunoenzyme technique, Other: immunologic technique, Other: laboratory biomarker analysis, Other: mass spectrometry, Other: pharmacological study

- ▶ Click the **Search** link at the top of the page to prepare for the next search

The screenshot shows the search results page for 'nelfinavir cancer'. At the top, there are navigation links: Home, Search, Study Topics, and Glossary. The 'Search' link is highlighted with a red box. Below the header, there is a search bar with a 'Search' button. The main content area includes a description of the site, a 'Resources' section with links like 'Understanding Clinical Trials' and 'What's New', and a 'Study Topics' section.

Search Exercises

Exercise 1: Do any clinical trials focus on diabetes among minorities?

Suggested Solution:

- Click **Search for Clinical Trials**
- Click the **Advanced Search** tab
- Type **minorities** in the Search Terms box
- Type **diabetes** in the Conditions box
- Click the **Search** button and review record(s) of your choice
- Click **Search** in the header bar to prepare for the next search

Exercise 2: Has the use of *Acyclovir* to prevent HIV infection in people with genital herpes been studied?

Suggested Solution:

- Click the **Advanced Search** tab
- Type **hiv prevention** in the Search Terms box
- Type **genital herpes** in the Conditions box
- Type **acyclovir** in the Interventions box
- Click the **Search** button and review record(s) of your choice
- Click **Search** in the header bar to prepare for the next search

Exercise 3: Find all clinical trials studying tuberculosis. Next, limit the results to studies of multi drug-resistant tuberculosis.

Suggested Solution:

- Click the **Advanced Search** tab
- Type **tuberculosis** in the Conditions box
- Click the **Search** button
- Click the **Refine Search** tab
- Type **multi drug resistant** in the Search Terms box
- Click the **Search** button and review record(s) of your choice
- Click **Search** in the header bar to prepare for the next search

Exercise 4: Using the Studies by Topic feature, retrieve records for clinical trials studying Leukoplakia.

Suggested Solution:

- Click the **Studies by Topic** tab
- Click Alphabetic (A-Z) under **Conditions**
- Click L
- Click **Leukoplakia**
- Review record(s) of your choice
- Click **Search** in the header bar to prepare for the next search

Exercise 5: Find Phase III clinical trials for breast cancer for women living in your state.

Suggested Solution:

- Click the **Advanced Search** tab
- Type **women** in the Search Terms box
- Type **breast cancer** in the Conditions box
- Select your state from the State pull-down menu
- Click the box beside “Phase III” to the right of “Phase:” under **Additional Criteria** at the bottom of the page
-  Note: click “**Phase:**” for the Study Phase definition
- Click the **Search** button and review record(s) of your choice
- Click **Search** in the header bar to prepare for the next search

Exercise 6: Find all HIV/AIDS clinical trials located in California. Next, map the locations of all HIV/AIDS clinical trials in the United States.

Suggested Solution:

- Click the **Advanced Search** tab
- Type **hiv aids** in the Conditions box
- Select United States, California from the State pull-down menu
- Click the **Search** button and review record(s) of your choice
- Click the **Return to Search Results** button
- Click the **Results on Map** tab
- Click the United States on the map
- Click **Home** in the header bar to prepare for the next search

Exercise 7: What should people consider before participating in a Clinical Trial? Next, review the definition of a double-blind study.

Suggested Solution:

- Click **Understanding Clinical Trials** on the right side of the page
- Scroll to **What should people consider before participating in a trial?**
- Review the information
- Click **Glossary** at the top of the page
- Scroll to double-blind study and view the definition

MEDLINE/PubMed

The screenshot shows the PubMed website homepage. At the top, there is a navigation bar with "NCBI Resources" and "How To" links. The main header features the "PubMed.gov" logo and a search bar with "PubMed" entered. Below the search bar, a "Welcome to PubMed" banner states: "PubMed comprises more than 19 million citations for biomedical articles from MEDLINE and life science journals. Citations may include links to full-text articles from PubMed Central or publisher web sites." The page is organized into three columns of links: "Using PubMed" (Quick Start, New and Noteworthy, Tutorials, Full Text Articles, FAQs), "PubMed Tools" (Single Citation Matcher, Batch Citation Matcher, Clinical Queries, Topic-Specific Queries), and "More Resources" (MeSH Database, Journals Database, Clinical Trials, E-Utilities). At the bottom, there is a section for "NLM/NCBI H1N1 Flu Resources" with a "FLU.GOV" button and a list of links including H1N1 sequences, GenBank submissions, PubMed citations, MedlinePlus, and Enviro-Health links.

<http://pubmed.gov>

MEDLINE/PubMed

PubMed is a database developed by the National Center for Biotechnology Information (NCBI) at the National Library of Medicine and is available free on the Web. Since 1996, free access to MEDLINE has been available to the public online via PubMed.

The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus, and a 'My NCBI | Sign In' link. Below this is the 'PubMed.gov' logo and a search bar containing 'PubMed'. A 'Welcome to PubMed' banner states: 'PubMed comprises more than 19 million citations for biomedical articles from MEDLINE and life science journals. Citations may include links to full-text articles from PubMed Central or publisher web sites.' The main content area is divided into three columns: 'Using PubMed' (with links like 'PubMed Quick Start', 'New and Noteworthy', 'PubMed Tutorials', 'Full Text Articles', 'PubMed FAQs'), 'PubMed Tools' (with links like 'Single Citation Matcher', 'Batch Citation Matcher', 'Clinical Queries', 'Topic-Specific Queries'), and 'More Resources' (with links like 'MeSH Database', 'Journals Database', 'Clinical Trials', 'E-Utilities'). A central widget titled 'NLM/NCBI H1N1 Flu Resources:' features a 'FLU.GOV' logo and links to 'Newest H1N1 influenza sequences', 'Submit flu sequences to GenBank', 'Latest H1N1 citations in PubMed', 'MedlinePlus (consumer health information)', and 'Enviro-Health links'. The footer includes a breadcrumb trail 'You are here: NCBI > Literature > PubMed', a 'Help Desk' link, and five columns of navigation links: 'GETTING STARTED' (Site Map, NCBI Help Manual, NCBI Handbook), 'RESOURCES' (Literature, DNA & RNA, Proteins), 'POPULAR' (PubMed, PubMed Central, Bookshelf), 'FEATURED' (GenBank, Reference Sequences, Map Viewer), and 'NCBI INFORMATION' (About NCBI, Research at NCBI, NCBI Newsletter).

<http://pubmed.gov>

About MEDLINE

PubMed provides access to MEDLINE, NLM's premier bibliographic database containing citations and author abstracts from approximately 5,200 biomedical journals published in the United States and worldwide. PubMed also provides access to citations for selected articles in life science journals not included in MEDLINE and additional relevant Websites and links to molecular biology resources.

Content

The scope of MEDLINE includes such diverse topics as microbiology, delivery of health care, nutrition, pharmacology and environmental health. Categories covered in MEDLINE include everything from anatomy, organisms, diseases, psychiatry, and psychology to the physical sciences. Coverage extends back to 1948.

PubMed Home Page

The NCBI Header includes an NCBI Resources pull-down menu categorized by topic, a How to Menu, and the sign-in for My NCBI. The search bar has the database selection menu and includes a link to Advanced Search and help.

Access to popular tools and resources may be found under PubMed Tools (e.g., Single Citation Matcher and Clinical Queries) and More Resources (e.g., MeSH Database, PubMed Tutorials, and Journals Database).

The screenshot shows the PubMed Home Page with several key areas highlighted by red boxes and labels:

- Search Box:** Located at the top left, containing a search bar with "PubMed" entered, a dropdown menu, and "Advanced search" and "Help" links.
- My NCBI:** Located at the top right, containing a "My NCBI" link and a "Sign In" button.
- Using PubMed:** A central box containing links for "PubMed Quick Start", "New and Noteworthy", "PubMed Tutorials", "Full Text Articles", and "PubMed FAQs".
- PubMed Tools:** A central box containing links for "Single Citation Matcher", "Batch Citation Matcher", "Clinical Queries", and "Topic-Specific Queries".
- More Resources:** A central box containing links for "MeSH Database", "Journals Database", "Clinical Trials", and "E-Utilities".
- FLU.GOV:** A prominent banner for "NLM/NCBI H1N1 Flu Resources" with a "VISIT FLU.GOV" button.
- Footer:** A bottom section with multiple columns of links under categories: "GETTING STARTED", "RESOURCES", "POPULAR", "FEATURED", and "NCBI INFORMATION".

Searching PubMed

Enter your search term(s) into the search box and click the Search button for basic searching. To find an author, enter the author's last name, then first and second initials (e.g., smith ja). Other search options include the following:

- To search for a journal, use the Journals Database—allows searching by topic, journal title/abbreviation, ISSN, or browsing by subject terms.
- To build a search strategy with MeSH terms, use the MeSH Database—NLM's controlled Medical Subject Heading (MeSH) vocabulary provides a consistent way to retrieve information that may use different terminology for the same concepts.
- To search for specific types of references, use either Clinical Queries or Topic-Specific Queries.

Click the Advanced Search to limit your search by full text or free full text, and abstracts; dates published or added to PubMed; humans or animals (studies); gender; languages; publication types; age group; and more.

NCBI Resources How To My NCBI | Sign In

PubMed.gov U.S. National Library of Medicine National Institutes of Health

Search: PubMed [Advanced search](#) [Help](#)

hurricane katrina **Search** Clear

Advanced Search

[+ Search History](#)

Search by Author, Journal, Publication Date, and more

Fill in any or all of the fields below, as needed.

All of these (AND) Any of these (OR)

Author [Index](#)

Journal [Index](#)

Publication Date to present [Index](#)
(yyyy/mm/dd - month and day are optional)

[Add More Search Fields](#)

[Clear All](#) [Search](#)

Limit by Topics, Languages, and Journal Groups

Full Text, Free Full Text, and Abstracts [CLEAR](#)

Links to full text Links to free full text Abstracts

Humans or Animals [CLEAR](#)

Humans Animals

Gender [CLEAR](#)

Male Female

Type of Article [CLEAR](#)

Clinical Trial
 Editorial
 Letter
 Meta-Analysis
 Practice Guideline

Languages [CLEAR](#)

English
 French
 German
 Italian
 Japanese

Subsets [CLEAR](#)

Journal Groups

Core clinical journals
 Dental journals
 Nursing journals
 Toxicology

Ages [CLEAR](#)

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

Search Results

Search results initially display in a summary format in the order they were entered in PubMed as last in, first out. By default, the system displays 20 citations per page. Search results include:

- Links to related articles for all citations—click the [Related Articles](#) link below the citation
- Links to free full text articles, if available,—click [Free article](#) below the citation
- Links to free full text journal articles at Web sites of participating publishers—click Free Full Text under Filter your results
- Links to other NLM resources for additional information—see on the right side of your Search Results page, Titles with your search terms, Free Full-text articles in PubMed Central, Find Related Data and other related information

To display the abstract for a journal article, click the title link. Some citations do not have abstracts and will include the note “No abstract available.”

My NCBI

My NCBI is an easy way to SAVE and UPDATE searches on topics of continuing interest. You can choose filters that group your search results. Search updates will automatically be e-mailed to you if selected. To use My NCBI, you must first register and your browser will need to allow pop-ups from the NCBI Web page. Click My NCBI on the right side of the NCBI header.

Ordering Documents

Loansome Doc is an automated document ordering program that allows you to order the full text of an article from a Loansome Doc participating library. To access this feature, click **Send to:** on your Search Results page. Under Choose Destination select Order then click on Order articles. Users must register to use this service.

Additional Resources

For further information, we recommend these additional resources:

- PubMed Help (an online Help book)
<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.chapter.pubmedhelp>
- PubMed Quick Tour: Simple Subject Search
<http://www.nlm.nih.gov/bsd/viewlet/search/subject/subject.html>
- PubMed Quick Tour: Search for an Author
<http://www.nlm.nih.gov/bsd/viewlet/search/author/author.html>
- CAM (Complementary and Alternative Medicine) on PubMed
<http://nmlm.gov/training/consumer/cam/cam-pubmed.pdf>
- Getting Started with LinkOut (National Network of Libraries of Medicine)
<http://nmlm.gov/training/linkout/>

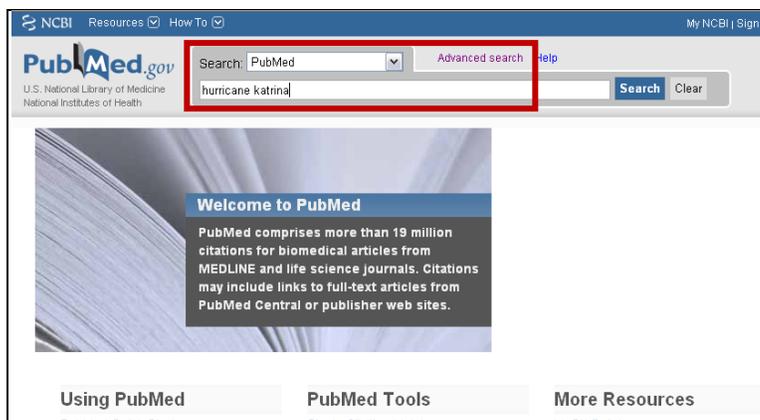


MEDLINE/PubMed Search Exercises

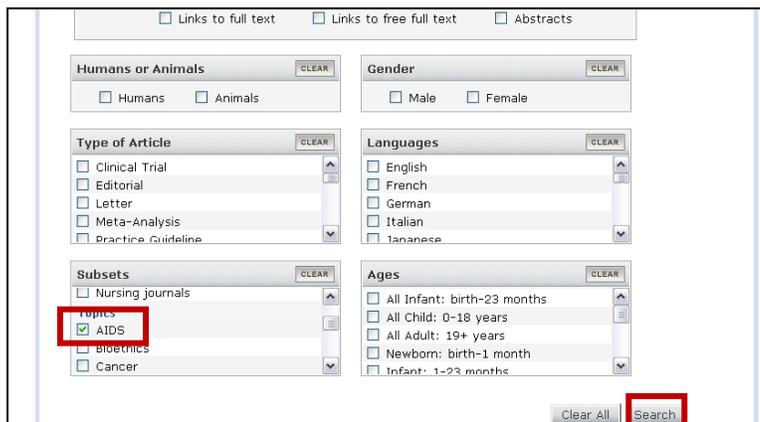
Search Example: What information has been written about the effects of hurricane Katrina on people living with HIV/AIDS?

Suggested Solution:

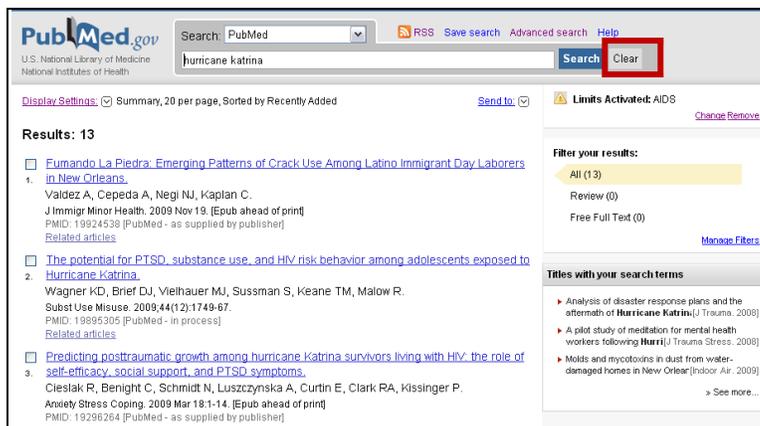
- ▶ Go to <http://pubmed.gov>
- ▶ Type **hurricane katrina** in the search box
- ▶ Click **Advanced Search**



- ▶ Click the checkbox for the AIDS topic in the **Subsets** limits box
- ▶ Click Search



- ▶ Review the citation(s) retrieved
- ▶ Click the **Clear** button to the right of the search box to prepare for the next search



Search Exercises

Exercise 1: Is H1N1 (Swine Flu) an issue for people living with HIV?

Suggested Solution:

Type	h1n1 hiv in the search box
Click	Advanced Search
Click	the checkbox for the AIDS topic in the Subsets limit box
Click	the Search button
Review	the citation(s) retrieved
	 When limits are selected a Limits Activated portlet will display on the results page. To turn off limits click remove.

Exercise 2: Locate articles that discuss the use of *Entecavir* in the treatment of people coinfecting with HIV and Hepatitis B.

Suggested Solution:

Type	entecavir coinfecting hepatitis b in the search box
	 Note that the Limits Activated portlet is still displayed. You are still searching the AIDS subset of PubMed.
Click	the Search button
Review	the citation(s) retrieved

Exercise 3: Locate articles that discuss HIV/AIDS drug treatments that adversely react with *St. John's Wort*. Review related articles.

Suggested Solution:

Type	st john's wort drug interactions in the search box
Click	the Search button
Review	the citation(s) retrieved

Exercise 4: Find articles that discuss pain management in patients with HIV infection who have a history of substance abuse. Sort by publication date.

Suggested Solution:

Type	pain management substance abuse in the search box
Click	the Search button
Click	Display Settings and select <u>Pub Date</u> under Sort By

Click the **Apply** button

Review the citation(s)

Exercise 5: Locate articles that discuss taking *Zidovudine* for the prevention of mother-to-child HIV transmission. Limit retrieval to articles written in English and published in the past five years.

Suggested Solution:

Type **zidovudine mother child transmission** in the search box

Click **Advanced Search**

Type **2004** in the search box next to the Publication Date pull-down menu

Select English in the **Languages** box

Click the **Search** button

Review the citation(s) retrieved

Exercise 6: Cytomegalovirus retinitis is common among people infected with HIV. What has been written about the use of *Foscarnet* and *Ganciclovir* in treating this disease in children?

Suggested Solution:

Type **cytomegalovirus retinitis foscarnet ganciclovir** in the search box

Click **Advanced Search**



Note that the **Limits Activated** portlet is still displayed. You must clear the limits you do not want for this search. You do not have to clear the Publication Dates.

Clear English in the **Languages** box

Select All Child: 0-18 years in the **Ages** box

Click the **Search** button

Review the citation(s)

Exercise 7: Locate an article written by L.M. Bogart titled “HIV-Related Stigma among People with HIV and their families: A Qualitative Analysis.”

Suggested Solution:

Type **stigma** in the search box

Click **Advanced Search**

Type **bogart lm** in the **Author** search box



Note that all the limits previously selected remain selected. You must clear the limits you do not want for this search. You do not need to clear the Limits for **Search by Author**.

- Clear All Child: 0-18 years in the Ages box
- Click the **Search** button
- Review the Citation(s)

Exercise 8: Locate articles on the impact of cultural competency in HIV/AIDS care and prevention. Next, e-mail an abstract to yourself in text form.

Suggested Solution:

- Type **cultural competency** in the search box
- Click the **Search** button
- Click the checkbox to the left of a record of your choice
- Select E-mail from the "Send to" pull-down menu
- Select Abstract (text) from the "Format" pull-down menu
- Type your e-mail address in the e-mail box
- Click the **E-mail** button
- Review the e-mail confirmation message highlighted in Green above the abstracts

Exercise 9: Using PubMed Central, locate free full-text articles that discuss improved adherence to HAART.

Suggested Solution:

- Select PMC from the Search pull-down menu above the search box
- Type **improved adherence haart** in the search box
- Click the **Search** button
- Review the citation(s)

Suggested Solution #2:

- Click PubMed Central at the bottom of the page under **Popular**
- Type **improved adherence haart** in the search box
- Click the **Find Articles** button
- Review the citation(s)
- Click PubMed in the list of databases above the search box to return to the PubMed home page.

Exercise 10: Set up a My NCBI user account and conduct a search for journal articles discussing structured antiretroviral therapy interruption.

Suggested Solution:

- Click [My NCBI](#) at the top right of the page
- Click [Register for an account](#)
- Follow the directions for setting up a username and password
 -  Clicking the “Keep me signed in” checkbox will create a permanent cookie so that My NCBI will be indefinitely available on your computer without signing in again.
- Click PubMed in the list of databases at the top of the page
- Type **structured antiretroviral therapy interruption** in the search box
- Click the **Search** button
- Click [Save Search](#) at the top of the screen above the search box
- Click the **Save** button
- Click the scheduling settings of your choice (optional)
- Click [Save](#)
 -  Your search (structured antiretroviral therapy interruption) will be listed.

Saving and Printing Records in PubMed

The **Send to:** button is available on screens with search results. You can save the entire results of a specific search or selected citations. If you don't select specific citations before clicking on the **Send to:** button, you will create a file on your computer that will contain the entire search results, up to a maximum of 5,000 items.

You can also save records collected from multiple searches by using the **Send to:** [Clipboard](#) feature. The Clipboard holds a maximum of 500 items. When you save a file, your browser will prompt you where this file should be placed on your computer, and also give you the opportunity to rename the file.

Saving Entire Search Results

- ▶ Click **Send to:** [File](#) to select your formatting and sorting preferences.
 The default for the File feature is to save the entire retrieval—up to 5,000 items—unless you specifically select citations. For example, if you use the **Send to:** [File](#) feature on a screen displaying 1-20 items of 2,356, your saved file will contain all 2,356 citations.
- ▶ Click [Create File](#)

Saving Selected Citations from a Single Search

- ▶ Click the check box next to each citation you want to save.
 You can move to other pages within the search results to make more selections.
- ▶ Click **Send to:** [File](#) to select your formatting and sorting preferences.
 Saving a large retrieval may take several minutes. To save citations in html format, use the Save As function of your browser, and change the file extension to html. This will save only the citations displayed on the screen, so you may wish to consider changing the number of items per page from the Display Settings.
- ▶ Click [Create File](#)

Using the Clipboard

- ▶ Click the check box next to each citation you want to send to the Clipboard, select [Clipboard](#) from the **Send to:** pull-down menu. Click Add to Clipboard and those items selected will automatically be saved to the clipboard.
 Once you have added a citation to the Clipboard, the item will display a note, "Item in Clipboard" in green beneath the selected citation.

-  If you use the Clipboard feature without selecting citations using the check box(es), PubMed will add all of your search results—up to 500 citations—to the Clipboard. The Clipboard will be lost after eight hours of inactivity.
-  PubMed uses cookies to add your selections to the clipboard. In order for you to use this feature, your Web browser must be set to accept cookies.
-  Citations in the clipboard are represented by the search number “#0,” and may be used in Boolean search statements. For example, to limit the citations you have collected in the Clipboard to English language citations, use the following search:

#0 AND english [la]

- This does not affect or replace the Clipboard contents.

E-mailing Citations

- ▶ Select E-mail from the **Send to:** menu
- ▶ Select your formatting and sorting preferences
- ▶ Select the number to send (if sending more than the first 20 records)
- ▶ Enter an e-mail address
 -  Only one is permitted, to prevent spam
- ▶ Add additional text if you wish
- ▶ Click E-mail

Ordering Full-text Articles

The **Order Documents** function allows you to order the full-text copy of an article from a medical library. Prior to using this feature, you must establish an agreement with a Loansome Doc participating library. During the registration process, you will have the opportunity to search for a Loansome Doc provider in your area (U.S. and International). Local fees may apply. To register, click Order from the **Send to:** menu, then Order articles to get to the **Loansome Doc Screen**, then **Sign up!** from the Loansome Doc screen.

After you have registered with a Loansome Doc participating library, you can order citations by clicking the check box to the left of each citation you want to order. When you have finished marking your selections (you may move to other pages within your results), select Order from the **Send to:** pull-down menu.

-  You may use the Clipboard to collect items from multiple searches before ordering.
-  For some journals, full-text articles are available via a PubMed link to the publisher's Web site. Publisher links for the full-text of the article are displayed on the Abstract or

Citation display. LinkOut is a PubMed feature that links to outside sources for the full text of the article (e.g., a publisher's Web site), as well as other resources such as biological databases and sequencing centers. User registration, a subscription fee, or some other type of fee may be required to access full-text articles in some journals.

Exporting Citations into a Reference Manager Program

To export your search results into a reference manager program, select File from the **Send to:** pull-down menu. Select the MEDLINE format to download records for use with reference management software.



Consider changing the .fcgi extension to .txt if you wish to open the file in a text editor, word processor, or reference manager program.

Printing Your Search Results

To print your search results, use the print function of your Web browser. Before printing, consider using the **Display Settings** feature to increase the number of documents per page so that the total number of documents is displayed on one page (maximum: 200 per page). You can print only the citations from the displayed page.



To print selected items from one or more searches on a single page, use the Clipboard feature first to collect them.

MedlinePlus

MedlinePlus®
Trusted Health Information for You

A service of the U.S. NATIONAL LIBRARY OF MEDICINE
and the NATIONAL INSTITUTES OF HEALTH

Search MedlinePlus

About MedlinePlus | Site Map | FAQs | Contact Us

español

Health Topics
Start here with 800 topics on conditions, diseases and wellness

Drugs & Supplements
About your prescription and over-the-counter medicines, herbs and supplements

Medical Encyclopedia
Includes pictures and diagrams

Dictionary
Spellings and definitions of medical words

News
Current health news and press announcements

Directories
Find doctors, dentists and hospitals

Go Local
A service for finding local resources for health-related issues

Other Resources
Local health services, libraries, organizations, international sites and more

Multiple Languages
Health information in over 40 languages

Current Health News

- ▶ [Obesity, Alcohol, Depression Interlinked for Women](#)
- ▶ [Firm Parents Keep Teen Drivers Safe](#)
- ▶ [Studies Find PSA Screening Unreliable](#)
- ▶ [More news](#)

Featured Site

September is **National Prostate Cancer Awareness Month**. [Learn more](#)

In the Spotlight

September is **National Alcohol and Drug Addiction Recovery Month**.
Learn more about:

- ▶ [The Science of Addiction](#)
- ▶ [Drug Abuse](#)
- ▶ [Alcoholism](#)

Interactive Tutorials
Over 165 slideshows with sound and pictures

ClinicalTrials.gov
Studies for new drugs and treatments

NIH Senior Health
Health information for older adults

Surgery Videos
Videos of surgical procedures

NEW [What's New](#)

[Director's Comments](#)

[NIH MedlinePlus Magazine](#)

[E-mail Updates and RSS](#)

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<http://medlineplus.gov>

MedlinePlus

MedlinePlus is the National Library of Medicine's answer to consumer-friendly, authoritative health information. It contains a wealth of information from trusted sources, lists of hospitals and physicians, extensive information on prescription and non-prescription drugs, interactive tutorials on many health conditions, links to articles on the latest health news, health information in more than forty languages, and much more.

The screenshot shows the MedlinePlus website interface. A red box on the left highlights the 'Health Topics' section, which includes links for 'Health Topics', 'Drugs & Supplements', 'Medical Encyclopedia', 'Dictionary', 'News', 'Directories', 'Go Local', 'Other Resources', and 'Multiple Languages'. A red box on the top right highlights the 'español' language link. A red box on the bottom right highlights the 'NIH MedlinePlus Magazine' link. A red box on the bottom center highlights the URL 'http://medlineplus.gov'. Callout text on the left reads 'MedlinePlus Resources' and on the right reads 'MedlinePlus en español' and 'Subscribe to MedlinePlus Magazine'.

Features

Features offered by MedlinePlus include:

- ▶ Easy-to-read language
- ▶ Easy-to-navigate pages
- ▶ New links added daily
- ▶ No advertising or endorsements
- ▶ Spanish version: <http://medlineplus.gov/spanish>
- ▶ Multiple Language health topics

Searching MedlinePlus

To search MedlinePlus, simply type your search term in the search box at the top of any MedlinePlus page:



Browsing MedlinePlus

Click Health Topics on the home page (top left) to explore MedlinePlus alphabetically or by topic categories. From this page, you can also access Frequently Requested Topics, Interactive Health Tutorials, Easy to Read, Health Check Tools, and For Low Vision Users.

Navigational tabs at the top of the page allow you to go Home or to Drugs & Supplements, Encyclopedia, Dictionary, News, Directories, and Other Resources.

Search

Health Topics

Find your topic by first letter:
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [XYZ](#) [List of All Topics](#)

Browse by Categories

- Body Location/Systems**
 - Blood, Heart and Circulation
 - Bones, Joints and Muscles
 - Brain and Nerves
 - Digestive System
 - Ear, Nose and Throat
 - Endocrine System
 - Eyes and Vision
 - Immune System
 - Kidneys and Urinary System
 - Lungs and Breathing
 - Mouth and Teeth
 - Skin, Hair and Nails
 - Female Reproductive System
 - Male Reproductive System
- Disorders and Conditions**
 - Cancers
 - Genetics/Birth Defects
 - Infections
 - Injuries and Wounds
 - Mental Health and Behavior
 - Metabolic Problems
 - Poisoning, Toxicology, Environmental Health
 - Pregnancy and Reproduction
 - Substance Abuse Problems
- Diagnosis and Therapy**
 - Complementary and Alternative Therapies
 - Diagnostic Tests
 - Drug Therapy
 - Surgery and Rehabilitation
 - Symptoms
 - Transplantation and Donation
- Demographic Groups**
 - Children and Teenagers
 - Men
 - Population Groups
 - Seniors
 - Women
- Health and Wellness**
 - Disasters
 - Fitness and Exercise
 - Food and Nutrition
 - Health System
 - Personal Health Issues
 - Safety Issues
 - Sexual Health Issues
 - Social/Family Issues
 - Wellness and Lifestyle

Browse Alphabetically

Frequently Requested Topics

Health Check Tools

MedlinePlus Health Check Tools

Quizzes, calculators, self-assessments, and decision guides to check your knowledge and health status. Click the link on the Health Topics page (see above).

Additional Links on the Home Page

Look for these icons on the bottom right of the home page to access the following information.



Director's Comment

Listen to a weekly update from Donald A.B. Lindberg, M.D., Director of the National Library of Medicine. Updates are distributed as free podcasts. A podcast is a digital audio broadcast for direct listening on a computer or by subscription via a download to a personal audio player.



NIH MedlinePlus Magazine

Subscribe to this free quarterly guide for patients and their families. Current and back issues are available on the Web site for downloading.



E-mail Updates and RSS

E-mail announcements contain links to new topics and sites containing consumer health information. RSS (Really Simple Syndication) helps you to keep up to date with MedlinePlus press announcements and HealthDay news stories without cluttering your e-mail inbox.



Search Cloud

A new feature that shows the 100 most frequently searched terms (in both English and Spanish versions)

Additional Resources

For further information, we recommend these additional resources:

- ▶ MedlinePlus Frequently Asked Questions
<http://www.nlm.nih.gov/medlineplus/spanish/faq/faq.html>
- ▶ Animated, 8-minute tour of MedlinePlus
<http://www.nlm.nih.gov/medlineplus/spanish/faq/faq.html>
- ▶ Guide to Healthy Web Surfing
<http://www.nlm.nih.gov/medlineplus/spanish/healthywebsurfing.html>
- ▶ MedlinePlus Tutorial
<http://www.nlm.nih.gov/medlineplus/spanish/tutorial.html>
- ▶ Prescription for Success: Consumer Health Information on the Internet (NN/LM)
<http://nnlm.gov/training/consumer/prescription>

MEDLINE and MedlinePlus: What is the Difference?

MEDLINE is the National Library of Medicine’s (NLM) premier bibliographic database. This web-based research tool covers the fields of medicine, nursing, dentistry, veterinary medicine, the health care system, and the preclinical sciences. It contains more than 19 million citations and abstracts. Most of the articles found in MEDLINE are very technical and written for health care professionals. MEDLINE is available free through NLM’s PubMed search system.

While MEDLINE is a source of medical research literature for health professionals, **MedlinePlus** provides health information especially written for consumers and patients by the National Institutes of Health and other reliable sources. MedlinePlus provides information on over 800 health topics. Additionally, consumers can search for information in the online medical encyclopedia or medical dictionary, get information on prescription and over-the-counter medication, and obtain information on local physicians and dentists. MedlinePlus is not a database for references to journal articles.

Use this Decision Tree to choose the correct database:

MEDLINE/PubMed	MedlinePlus
Database	Directory
Journal citations	Health topics
Published medical literature	Multiple sources
Health professionals	Consumers and patients
Clinical terminology	Easy to understand language
Search only	Browse and search
Value added: <ul style="list-style-type: none"> • Links to publishers • Selected full text articles • Selected consumer health journals • Links to MedlinePlus 	Value added: <ul style="list-style-type: none"> • Drug information • Medical encyclopedia • Links to other Web resources • Link to MEDLINE searches • Spanish version • Surgery videos • Multiple languages



MedlinePlus Search Exercises

Search Example: Review the MedlinePlus AIDS page and locate general information about HIV/AIDS.

Suggested Solution:

- ▶ Go to <http://medlineplus.gov>

The screenshot shows the MedlinePlus homepage. The 'Health Topics' link is highlighted with a red box. Other visible elements include the search bar, navigation links like 'About MedlinePlus', 'Site Map', 'FAQs', and 'Contact Us', and a sidebar with 'Interactive Tutorials' and 'ClinicalTrials.gov'.

- ▶ Click **Health Topics**

- ▶ Click **A**

The screenshot shows the 'Health Topics' page. The alphabetical list of topics is visible, with the letter 'A' highlighted in a red box. The page includes a search bar and navigation links.

- ▶ Click AIDS from the alphabetical list of topics

The screenshot shows the alphabetical list of topics. The link for 'AIDS' is highlighted with a red box. Other links include 'Ageusia see Taste and Smell Disorders', 'Aging see Seniors' Health', 'Alopecia see Skin Spots', and 'AIDS and Pregnancy'.

- ▶ Click Overviews under **Basics**

The screenshot shows the 'AIDS' page. Under the 'Basics' section, the 'Overviews' link is highlighted with a red box. The page contains detailed text about AIDS, including its definition, transmission, and symptoms. There is also a red ribbon graphic and a 'Go Local' section.

- ▶ Click AIDS/HIV NIH (National Institute of Allergy and Infectious Diseases)

The screenshot shows the 'AIDS' page. The link for 'AIDS/HIV NIH (National Institute of Allergy and Infectious Diseases)' is highlighted with a red box. The page also includes a 'Start Here' section with various links and a 'Go Local' section.

- ▶ Review the information and close the NIH window



- ▶ Click the **Home** tab at the top of the page to prepare for the next search



Search Exercises

Exercise 1: Using the MedlinePlus search box, identify some of the complications associated with diabetes.

Suggested Solution:

- | | |
|--------|--|
| Type | diabetes complications in the search box |
| Click | the Search MedlinePlus button |
| Click | a topic of interest to you |
| Review | the information retrieved and return to the MedlinePlus results page |
| |  If the link opened a pop-up window, close it. If you clicked the link for the Interactive Tutorial, click your browser's Back button. |

Exercise 2: Using the Health Topics search feature, locate information on Swine Flu (H1N1 Flu). Review the health check tools.

Suggested Solution:

- | | |
|--------|--|
| Click | the Health Topics tab |
| Click | S |
| Click | <u>H1N1</u> (Swine flu) from the alphabetical list |
| Click | <u>Health Check Tools</u> under Multimedia and Cool Tools |
| Click | a topic of interest to you |
| Review | the information retrieved and close the pop-up window |

Exercise 3: Using the Health Topics search feature, locate information on factors to consider before using an alternative medicine therapy.

Suggested Solution:

- Click the **Health Topics** tab
- Click **A**
- Click Alternative Medicine from the alphabetical list
- Click Are You Considering Using Complementary and Alternative Medicine (CAM)? under **Start Here**
- Review the information retrieved and close the pop-up window
- Review the additional information on the MedlinePlus page

Exercise 4: Find information about HIV/AIDS and children. Next, use the Go Local feature to locate AIDS services and resources in your community.

Suggested Solution:

- Click the **Health Topics** tab
- Click **A**
- Click **AIDS** from the alphabetical list
- Click Children under **For You** to the right
- Click Children and HIV (New Mexico AIDS Education and Training Center) under **Children**
- Review the information
- Close the AIDS InfoNet window and return to the MedlinePlus page
- Scroll to **Go Local** near the top right of the page
- Select Your state from the State pull-down menu and click **Go**
-  Currently there are twenty-three states. The remaining states will be added in the future.
- Type your zip code in the search box and click **Go**
- Review the information retrieved and close the pop-up window

Exercise 5: Find health information for diverse population groups.

Suggested Solution:

- Click the **Health Topics** tab
- Click Population Groups under **Demographic Groups**

- Click the population group of your choice from the alphabetical list
- Review the information retrieved

Exercise 6: I read that *Buprenorphine* is showing promise as an effective drug addiction treatment for HIV-positive patients. What is *Buprenorphine* and why is it used for drug addiction treatment?

Suggested Solution:

- Click the **Drugs & Supplements** tab
- Click **B** under Drug Information
- Click Buprenorphine Sublingual and Buprenorphine and Naloxone Sublingual in the alphabetical list
- Click Why is this medicine prescribed?
- Review the information retrieved

Exercise 7: According to a recent survey conducted by researchers in Cleveland, Ohio, people living with HIV/AIDS commonly use the following herbs: Echinacea, Ginseng, Ginko, St. Johns Wort, and Yohimbe. Can these supplements interfere with prescribed medications? What is the scientific evidence for use of these drugs?

Suggested Solution:

- Click the **Drugs & Supplements** tab
- Click **E** under **Herbs and Supplements**
- Click Echinacea in the alphabetical list
- Click Interactions under **Contents of this page** and review the information retrieved
- Click Evidence under **Contents of this page** and review the information retrieved
-  Repeat these steps for: Ginseng, Ginko, St. Johns Wort, and Yohimbe

Exercise 8: Find the MedlinePlus Hepatitis C page and view the interactive tutorial.

Suggested Solution:

- Click the **Health Topics** tab
- Click **H**
- Click Hepatitis C from the alphabetical list
- Click Hepatitis C Interactive Tutorial under **Start Here**
- Click the **Start Interactive Tutorial** button and follow the instructions
- Close the tutorial window and return to the **Hepatitis C** health topic page

Exercise 9: Using the Medical Encyclopedia, locate an illustration depicting Kaposi's sarcoma.

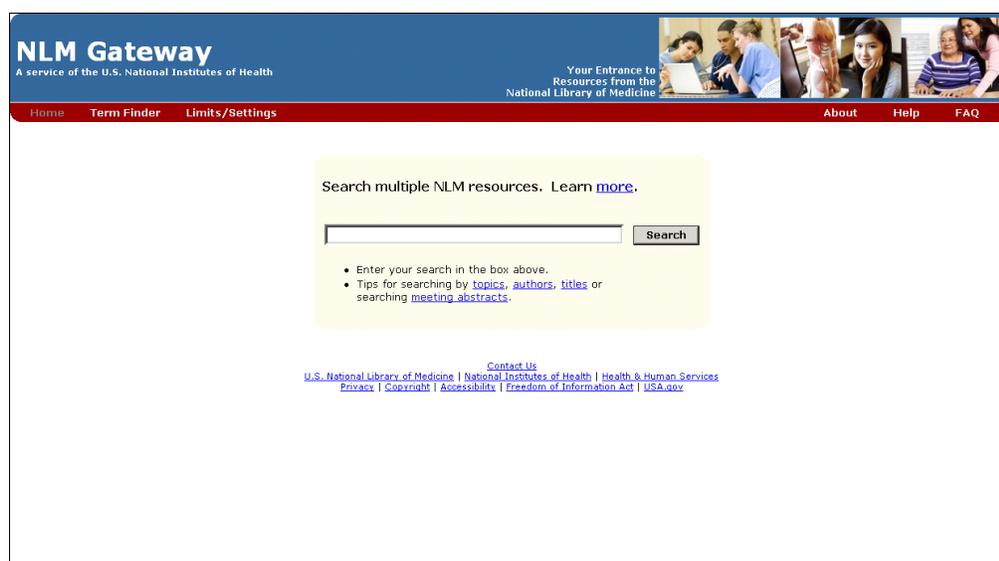
Suggested Solution:

- Click the **Encyclopedia** tab
- Click **K**
- Click Kaposi's sarcoma from the alphabetical list
- Click the graphic of your choice under **Illustrations**
- Review the information retrieved

Exercise 10: Locate health information on a topic of your choice.

This page is intentionally blank.

The NLM Gateway



The screenshot shows the NLM Gateway website. At the top left, it says "NLM Gateway" and "A service of the U.S. National Institutes of Health". To the right, there is a banner image of people working at computers and the text "Your Entrance to Resources from the National Library of Medicine". Below this is a navigation bar with links: "Home", "Term Finder", "Limits/Settings", "About", "Help", and "FAQ". The main content area features a search box with a "Search" button. Below the search box, there are two bullet points: "Enter your search in the box above." and "Tips for searching by [topics](#), [authors](#), [titles](#) or searching [meeting abstracts](#)." At the bottom, there are links for "Contact Us", "U.S. National Library of Medicine", "National Institutes of Health", "Health & Human Services", "Privacy", "Copyright", "Accessibility", "Freedom of Information Act", and "USA.gov".

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

NLM Gateway

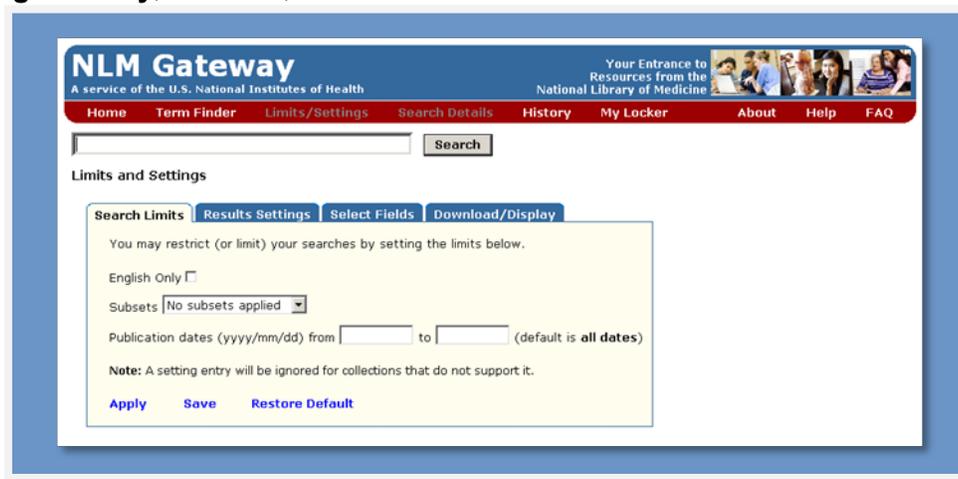
NLM Gateway is a Web-based system that lets users search simultaneously in multiple retrieval systems at the National Library of Medicine, including PubMed and MedlinePlus. The Gateway also provides a search interface for meeting abstracts.



Searching NLM Gateway

For a quick search, type your search term or phrase into the search box on the home page. Gateway processes search terms through a spell checker and offers suggested corrections.

To apply search limits and settings for results, downloading, and display, click **Limits/Settings** on the home page. Type your search term(s) into the search box and apply limits. Available search limits are **English Only**, **Subsets**, and **Publication dates**.



The list of collections that Gateway searches is arranged in three categories.

- ▶ **Bibliographic Resources** include MEDLINE/PubMed, Meeting Abstracts Developmental and Reproductive Toxicology (DART®), TOXLINE® subset, NLM Catalog, and the Bookshelf.
- ▶ **Consumer Health Resources** include MedlinePlus, ClinicalTrials.gov, DIRLINE, Genetics Home Reference, and Household Products Database
- ▶ **Other NLM Resources** include Health Services Research Project (HSRProj,) Hazardous Substances Data Bank (HSDB®), Chemical Carcinogenesis Research Information System (CCRIS), Genetic Toxicology Data Bank (GENE-TOX), Integrated Risk Information System (IRIS), International Toxicity Estimates for Risk (ITER), Online Mendelian Inheritance in Man, and Profiles in Science

Search Results

When the search is completed, NLM Gateway displays a Results Summary page with the number of records found in each of the databases, listed by category. To explore the results category, click the desired database link.

The screenshot shows the NLM Gateway search results page for the query 'hiv aids'. The page displays a search bar with the query and a 'Search' button. Below the search bar, it shows 'Results Summary: 169739 records found' and a link to 'Bookmark this Search'. The results are organized into three columns: Bibliographic Resources, Consumer Health Resources, and Other Information Resources. Each column lists various databases and the number of records found in each.

Bibliographic Resources	Consumer Health Resources	Other Information Resources
90165 MEDLINE/PubMed - journal citations, abstracts	35 MedlinePlus - Health Topics	353 Images from the History of Medicine
6830 NLM Catalog - books, AVs, serials	95 MedlinePlus - Drug Information	255 HSRProj - Health Services Research Projects
2035 Bookshelf - full text biomedical books	49 MedlinePlus - Medical Encyclopedia	50 OMIM - Online Mendelian Inheritance in Man
5127 TOXLINE Subset - toxicology citations	33 MedlinePlus - Current Health News	56 HSDB - Hazardous Substances Data Bank
122 DART - Developmental and Reproductive Toxicology	40 MedlinePlus - Other Resources	0 IRIS - Integrated Risk Information System
59971 Meeting Abstracts	3992 ClinicalTrials.gov	0 ITER - International Toxicity Estimates for Risk
	367 DIRLINE - Directory of Health Organizations	
	27 Genetics Home Reference	

My Locker

“My Locker” is a permanent place to store selected search items for printing, downloading, or ordering. A maximum of 500 items may be stored in the Locker. You must register and create a user ID and password to use the Locker. Registration is free.

Additional Resources

- ▶ For further information, we recommend these additional resources:
- ▶ NLM Gateway Brochure
<http://nml.gov/training/resources/gwtri.pdf>
- ▶ NLM Gateway Training Manual
<http://www.nlm.nih.gov/pubs/manuals/gwclintrials.doc>



NLM Gateway Search Exercises

Search Example: Locate information on HIV/AIDS treatment.

Suggested Solution:

- ▶ Go to <http://gateway.nlm.nih.gov>
- ▶ Type **hiv aids treatment** in the search box
- ▶ Click the **Search** button

The screenshot shows the NLM Gateway search interface. At the top, it says 'NLM Gateway' and 'Your Entrance to Resources from the National Library of Medicine'. Below the navigation bar, there is a search box containing the text 'hiv aids treatment' and a 'Search' button. A red box highlights the search box and the 'Search' button. Below the search box, there are instructions: 'Enter your search in the box above.' and 'Tips for searching by topics, authors, titles or searching meeting abstracts.'

- ▶ Results will be displayed in three categories:

- **Bibliographic Resources**
- **Consumer Health Resources**
- **Other Information Resources**

- ▶ Click **HSRProj – Health Services Research Projects** under **Other Information Resources**

The screenshot shows the search results page for 'hiv aids treatment'. The results are summarized as 80872 records found. The results are organized into three columns: Bibliographic Resources (51591 items), Consumer Health Resources (22 items), and Other Information Resources (257 items). Under the 'Other Information Resources' column, the link '173 HSRProj - Health Services Research Projects' is highlighted with a red box. Other links in this column include '20 OMIM - Online Mendelian Inheritance in Man', '56 HSDB - Hazardous Substances Data Bank', '0 IRIS - Integrated Risk Information System', '0 ITER - International Toxicity Estimates for Risk', '0 GENE-TOX - Genetic Toxicology (Mutagenicity)', '0 CCRIS - Chemical Carcinogenesis Research Information System', and '5 Profiles in Science'.

- ▶ Review record(s) of your choice

- ▶ Click **Results** in the left sidebar to return to the search results page

The screenshot shows the 'HSRProj Results' page for 'hiv aids treatment'. The search box contains 'hiv aids treatment'. The results are displayed in a list format. The left sidebar has a 'Results' link highlighted with a red box. The main content area shows a list of 5 results, each with a checkbox and a title. The first result is '1 [] Pentecostalism and utilization of HIV/AIDS treatment services in central Mozambique' by Pfeiffer, James T. The second is '2 [] The impact of the BRIDGE program upon treatment engagement among HIV+ adults' by McKay, Mary M. The third is '3 [] Preventing HIV/AIDS in treatment-resistant drug-abusing youth' by Waldron, Holly Barrett. The fourth is '4 [] Seek and treat for optimal outcomes and prevention in HIV & AIDS in IDU' by Montaner, Julio Sergio. The fifth is '5 [] Fostering an AIDS research and training center infrastructure in Russia' by Amirkhanian, Yuri A.

Search Exercises

Exercise 1: Is there any evidence that the flu vaccine can cause an increase in viral loads? Limit the search to the AIDS subset. Review the MEDLINE/PubMed and ClinicalTrials.gov records.

Suggested Solution:

Type	flu vaccine viral loads in the search box
Click	the Limits/Setting button
Select	<u>AIDS</u> from the subset pull-down menu and click “ Apply ”
Click	the Search button
Click	<u>MEDLINE/PubMed – journal citations, abstracts</u> under Bibliographic Resources
Review	citation(s) of your choice
Click	the Results button to the left of the page to return to the results summary page
Click	<u>ClinicalTrials.gov</u> under Consumer Health Resources
Review	record(s) of your choice and close the ClinicalTrials.gov window

Exercise 2: Locate information on *crystal methamphetamine*. Limit the search to the AIDS subset.

Suggested Solution:

Type	crystal methamphetamine in the search box
	 Note that the Limits tab still contains a checkmark. You are still searching the AIDS subset of the NLM Gateway
Click	the Search button
Review	record(s) of your choice

Exercise 3: Set up a Locker user account and conduct a search for information on structured antiretroviral therapy interruption. Store a meeting abstract record in your Locker.

Suggested Solution:

Click	the My Locker button at the top of the page
Click	<u>Create one now</u> under “Sign-in”
Follow	the on-screen directions for setting up a user name and password
Type	structured antiretroviral therapy interruption in the search box

- Click the **Search** button
- Click Meeting Abstracts under **Bibliographic Resources**
- Click box next to the record of your choice
- Click **Put in locker** at the top of the page

Exercise 4: Perform a search on a health topic of your choice.

This page is intentionally blank.

DIRLINE

Directory of Health Organizations
SIS Specialized Information Services

[DIRLINE PDA Access](#) | [SIS Home](#) | [About Us](#) | [Site Map & Search](#) | [Contact Us](#)

[SIS Home >](#)

Search DIRLINE

Search
Clear

(e.g. aging chronic diseases, scleroderma)

Search: all of the words any of the words exact phrase

Fields: (if none checked, all fields will be searched.)

Organization name or acronym

MeSH Headings/Keywords

Select records containing:

Only organizations with toll-free numbers

Only organizations with services for the hearing impaired

Search
Browse the Index

Health Hotlines

Toll-free numbers for
over 300 organizations

Other NLM Resources

[MedlinePlus®](#)
[PubMed](#)
[NLM Gateway](#)
[LocatorPlus](#)

Support Pages

[Help](#)
[Fact Sheet](#)
[Disclaimer](#)
[A to Z List of Health Organizations](#)

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

DIRLINE

DIRLINE is the National Library of Medicine's online database containing location and descriptive information about a wide variety of information resources including organizations, research resources, projects, and databases concerned with health and biomedicine. This information may not be readily available in bibliographic databases. Each record may contain information on the publications, holdings, and services provided.

The screenshot shows the DIRLINE website interface. At the top, there is a search bar for the NLM Web Site and navigation links like 'NLM Home', 'Contact NLM', 'Site Map', and 'FAQs'. Below this is the 'Directory of Health Organizations' header with 'SIS Specialized Information Services'. A search bar for DIRLINE is present, with a search button and a clear button. Below the search bar, there are options for search criteria (all of the words, any of the words, exact phrase) and fields to search (Organization name or acronym, MeSH Headings/Keywords). There are also checkboxes for selecting records containing toll-free numbers or services for the hearing impaired. On the right side, there are sections for 'Health Hotlines' (with a call icon and text 'Toll-free numbers for over 300 organizations'), 'Other NLM Resources' (listing MedlinePlus, PubMed, NLM Gateway, LocatorPlus), and 'Support Pages' (listing Help, Fact Sheet, and A to Z List of Health Organizations). Red boxes and arrows highlight the 'Health Hotlines' and 'A-Z List of Health Organizations' sections, with callout text on the right: 'Health Hotlines: Search or print toll-free numbers for over 300 organizations' and 'A-Z List of Health Organizations'.

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

DIRLINE contains more than 8,500 records and focuses primarily on health and biomedicine, although it provides limited coverage of some other special interests. Topics include HIV/AIDS, maternal and child health, most diseases and conditions including genetic and other rare diseases, health services research, and technology assessment. The information resources fall into many categories, including:

- ▶ Federal, state, and local government agencies
- ▶ Information and referral centers
- ▶ Professional societies
- ▶ Self-help groups and voluntary associations
- ▶ Academic and research institutions and their programs
- ▶ Information systems and research facilities

Searching DIRLINE

Search DIRLINE using subject words (such as the name of a disease or condition, or the name or location of a resource). Keep the search simple to maximize retrieval. Refine your search by including Medical Subject Headings (MeSH®). MeSH consists of sets of specific terms developed by the NLM to enhance searching.

Click [A-Z List of Health Organizations](#) on the home page to browse for a health organization:



Additional Resources

For further information, we recommend these additional resources:

- ▶ DIRLINE Fact Sheet
<http://www.nlm.nih.gov/pubs/factsheets/dirlinfs.html>
- ▶ Prescription for Success: Consumer Health Information on the Internet (National Network of Libraries of Medicine)
<http://nnlm.gov/training/consumer/prescription>
- ▶ Medical Subject Headings (MeSH)
<http://www.nlm.nih.gov/mesh/meshhome.html>



DIRLINE Search Exercises

Search Example: Find HIV/AIDS-related resources. Review several resources of interest to you.

Suggested Solution:

- ▶ Go to <http://dirline.nlm.nih.gov>
- ▶ Type **hiv aids** in the search box
- ▶ Click the **Search** button

Directory of Health Organizations
SIS Specialized Information Services

DIRLINE PDA Access SIS Home | About Us | Site Map & Search | Contact Us

[SIS Home >](#)

Search DIRLINE

 Search Clear

(e.g. aging chronic diseases, stroke/dementia)

Search: all of the words any of the words exact phrase

Fields: (if none checked, all fields will be searched.)

Health Hotlines
Toll-free numbers for over 300 organizations

Other NLM Resources
MedlinePlus®

- ▶ Review record(s) of your choice by clicking the organization name

Directory of Health Organizations
SIS Specialized Information Services

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DIRLINE Search Results [SIS Home](#) [DIRLINE](#)

 Search Clear

Items 1 through 20 of 367 Page 1 of 19. Go to page ▶

Organization Names are sorted in *relevancy ranked* order.

Select Record	Organization Name
1 <input type="checkbox"/>	Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
2 <input type="checkbox"/>	HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme - United Nations

Save Checked Items
Sort
Details
History
Download
Modify Search
New Search
Browse Index

- ▶ After reviewing a record, click the **Search Results** button on the left to return to the search results page

DIRLINE [SIS Home](#) [DIRLINE](#)

 Search Clear

Item 1 of 367 ▶

Search Results

Download
New Search
Modify Search
Details
History

Ministry for HIV/AIDS
Office for Health and Wholeness Advocacy
United Church of Christ

700 Prospect Ave.
Cleveland, OH 44115-1100

Telephone:
(866) 822-8224 ext. 3217 (toll-free)
(216) 736-3217
(216) 736-3203 (Fax)

- ▶ From the search results page, click the **New Search** button on the left to prepare for the next search

Directory of Health Organizations
SIS Specialized Information Services

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

DIRLINE Search Results [SIS Home](#) [DIRLINE](#)

 Search Clear

Items 1 through 20 of 367 Page 1 of 19. Go to page ▶

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2 <input type="checkbox"/>	HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme - United Nations

Save Checked Items
Sort
Details
History
Download
Modify Search
New Search
Browse Index

Search Exercises

Exercise 1: Find records for organizations that provide information on substance abuse.



Be sure that you space after each entry. Remember: Boolean Operators do not work in DIRLINE.

Suggested Solution:

- | | |
|--------|--|
| Type | substance abuse in the search box |
| Click | the Search button |
| Review | record(s) of your choice |
| |  After reviewing a record, click the Search Results button on the left to return to the search results page. |
| Click | the New Search button on the left to prepare for the next search |

Exercise 2: Locate information on the Ryan White CARE Act.

Suggested Solution:

- | | |
|--------|---|
| Type | ryan white in the search box |
| Click | the Search button |
| Review | record(s) of your choice |
| Click | the New Search button on the left to prepare for the next search |

Exercise 3: Are there organizations that offer information on Hepatitis C infection?

Suggested Solution:

- | | |
|--------|---|
| Type | hepatitis c in the search box |
| Click | the Search button |
| Review | record(s) of your choice |
| Click | the New Search button on the left to prepare for the next search |

Exercise 4: Are there any housing resources for people infected with HIV/AIDS?

Suggested Solution:

- | | |
|--------|---|
| Type | hiv aids housing in the search box |
| Click | the Search button |
| Review | record(s) of your choice |
| Click | the New Search button on the left to prepare for the next search |

Exercise 5: Find records for the various Centers for Disease Control and Prevention (CDC) HIV/AIDS programs. Save the records that are of interest to you.

Suggested Solution:

- Type **cdc hiv aids** in the search box
- Click the **Search** button
- Click the checkbox to the left of record(s) of your choice
- Click the **Save Checked Items** button on the left
- Click the **Display Saved Items** button to review the record(s)
- Click the **New Search** button on the left to prepare for the next search

Exercise 6: Find HIV/AIDS-related organizations that focus their efforts on minority groups. Next, limit the search to organizations with services for the hearing impaired.

Suggested Solution:

- Type **aids minority groups** in the search box
- Click the **Search** button
- Review record(s) of your choice
- Click the **Modify Search** button on the left of the page
- Click the checkbox for Only organizations with services for the hearing impaired under “**Select records containing:**”
- Click the **Search** button
- Review record(s) of your choice
- Click the **New Search** button on the left to prepare for the next search

Exercise 7: Use the Browse Index feature to identify the number of organizations that offer information on gay and lesbian health. Sort the records in descending order.

Suggested Solution:

- Click the **Browse the Index** button
- Type **gay** in the search box
- Click the **Search** button
- Click the checkbox for the index term “gay”
- Click the **Select** button above the table
- Click the **Sort** button on the left
- Click **Descending** and then the **Sort** button

Review record(s) of your choice

Click the **New Search** button on the left to prepare for the next search

Exercise 8: Locate information resources for a topic of your choice.

Additional Resources

National Minority AIDS Council

The National Minority AIDS Council (NMAC) is the premier national organization dedicated to developing leadership within communities of color to address the challenges of HIV/AIDS.



Programs and Training

- ▶ HIV/AIDS Stigma Program
- ▶ Individualized Capacity Building Assistance
- ▶ Prison Initiative
- ▶ Supporting Network of HIV CARE (SNHC) by Enhancing Primary Medical Care (EPMC)
- ▶ Equal Access Initiative Computer Grants Program
- ▶ Women of Color Leadership Institute

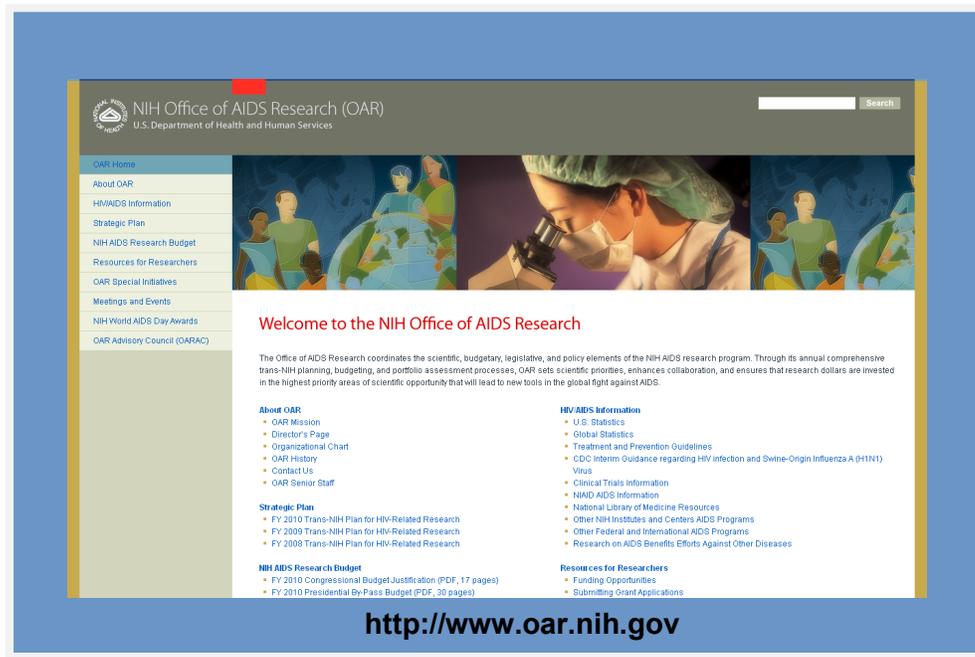
Tools and Resources

- ▶ Online Resource Library
- ▶ NMAC E-Alerts

- ▶ NMAC/POZ AIDS Services Directory
- ▶ Grant Writing Tool
- ▶ NMAC Publications Resource Center (order small quantities of NMAC publications free of charge)
- ▶ NMAC Publication Download Library
- ▶ Calendar of Events

Office of AIDS Research

The Office of AIDS Research (OAR), National Institutes of Health, plans, coordinates, evaluates, and funds all NIH AIDS research and promotes collaborative research activities. Information available on the Web site includes Web Broadcasts, and Minority Initiatives.



Strategic Plan

- ▶ Trans-NIH Plan for HIV-Related Research

HIV/AIDS Information (links)

- ▶ U.S. and Global Statistics
- ▶ Treatment and Prevention Guidelines
- ▶ Clinical Trials Information
- ▶ NIAID AIDS Information
- ▶ National Library of Medicine Resources
- ▶ Other Institutes and Centers AIDS Programs
- ▶ Other NIH Institutes and Centers AIDS Programs
- ▶ Other Federal and International HIV/AIDS Programs
- ▶ Research on AIDS Benefits Efforts Against Diseases (information page)

Centers for Disease Control and Prevention

The **Centers for Disease Control and Prevention (CDC)**, Department of Health and Human Services, offers a Web site that includes an A-Z Index of health topics and links to publications. **Top 10 at CDC.gov** lists the most popular pages. The **Tools & Resources** section includes a BMI (Body Mass Index) calculator, training information, software, and downloads. CDC.gov is also available in most spoken languages in the United States as well as many other languages from around the world.



Recommended Sections

- ▶ Health Disparities
<http://www.cdc.gov/omhd/Topic/HealthDisparities.html>
- ▶ Health Disparities: A Selected Bibliography
<http://www.cdc.gov/nccdphp/publications/healthdisparities>
- ▶ Health Schools Health Youth!
<http://www.cdc.gov/healthyouth>

Selected Internet Resources in Health

Agency for Healthcare Research and Quality

<http://www.ahrq.gov>

—Although this Web site is primarily for health care professionals, it also contains a section on consumer health. Other topics include Clinical Information, Funding Opportunities, Research Findings, Specific Populations, Public Health Preparedness, Data & Surveys, and Quality and Patient Safety.

American Medical Association

<http://www.ama-assn.org>

—Information for physicians, doctor and hospital finders, the Journal of the American Medical Association, and health and fitness information.

BioMed Central

<http://www.biomedcentral.com/browse/journals>

—Free access to a wide variety of over 100 journals and other services. The Quick Search feature allows searching of not only BioMed Central, but also PubMed and PubMed Central.

CDC Diseases and Conditions

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

—An index of illnesses, conditions, concerns, and programs from the Center for Disease Control and Prevention. Includes links to relevant publications, news and events, and related CDC organizations.

CDC Environmental Health

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

—Informs the general public about environmental health. Topics include food safety, extreme cold, hydrocarbons, lead poisoning, mold, and carbon monoxide. Under Featured Items see links for upcoming events and recently released reports on environmental health topics. From the Centers for Disease Control and Prevention.

Center for Drug Evaluation and Research

<http://www.fda.gov/cder>

—This site includes information about prescription and over-the-counter drugs, drug safety, and links to major drug information pages. From the U.S. Food and Drug Administration.

ClinicalTrials.gov

<http://clinicaltrials.gov>

—Developed by the National Institutes of Health through its National Library of Medicine to provide patients, family members, and members of the public current information about clinical research studies. It is updated regularly.

CNN Health

<http://www.cnn.com/HEALTH>

—Health links to Cable News Network news stories regarding health concerns.

Directory of Open Access Journals

<http://www.doaj.org>

—Provides access to free, full text, quality controlled scientific and scholarly journals. Journals may be browsed by title or subject, and many are searchable at article level.

Doctor's Guide

<http://www.docguide.com>

—A comprehensive source of links to medical information of interest to physicians, as well as information and resources a doctor may want to recommend to patients. Includes news stories, a list of webcasts and continuing medical education (CME) opportunities, Case Studies, and the Congress Resource Center, a database of meetings with links to relevant travel planning information.

U.S. Food and Drug Administration

<http://www.fda.gov>

—Provides links to FDA resources, including research information on food, drugs, biologics, cosmetics, medical devices, tobacco, and toxicology.

Health Disparities/CDC

<http://www.cdc.gov/omhd/Topic/HealthDisparities.html>

—Links to extensive information on health disparities organized on the home page by Topics, Quick Links, Key Resources, Programs and Campaigns, and more.

Health Disparities: A Selected Bibliography

<http://www.cdc.gov/nccdphp/publications/healthdisparities/>

—A compilation of peer-reviewed journal articles, book chapters, and monographs written by CDC staff and partners between January 2000 and January 2005, compiled for the 19th National Conference on Chronic Disease Prevention and Control, March 1–3, 2005.

Health Hotlines

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

—A National Library of Medicine online database of health-related organizations operating toll-free telephone services.

Health Literacy Training [FREE]

<http://www.hrsa.gov/healthliteracy/training.htm>

—The U.S. Department of Health and Human Services, Health Resources and Services Administration, offers this free online training for health providers titled Unified Health Communication 101: Addressing Health Literacy, Cultural Competency, and Limited English Proficiency. The course has five modules, is estimated to take five hours to complete, and can be completed at your own pace. Credits can be elected for CEU/CE, CHES, CME, or CNE.

Healthfinder

<http://www.healthfinder.gov>

—A Web site of the U.S. government's links to dependable consumer health information.

Healthy People 2010

<http://healthypeople.gov>

—A health initiative for the nation coordinated by the Office of Disease Prevention and Health Promotion of the U.S. Department of Health and Human Services. The overarching goals of Healthy People 2010 are to increase quality and years of healthy life and to eliminate health disparities. It is designed to be used by people on many levels—personal, community, state, and national—to improve health.

Healthy People 2010 Information Access Project

<http://phpartners.org/hp>

—A Web resource developed by the National Library of Medicine with assistance from subject experts and public health librarians. The site provides “pre-formulated” PubMed searches for selected Healthy People 2010 focus areas to make current information and evidence-based strategies related to the HP2010 objectives easier to find. Also provides links to relevant full-text resources on NLM's Web site. This site is a pilot project funded by the National Library of Medicine with assistance from the Public Health Foundation and the National Network of Libraries of Medicine. Feedback is requested for project expansion to all HP2010 focus areas.

Healthy Schools Healthy Youth

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

—The Centers for Disease Control and Prevention's Division of Adolescent and School Health Web site provides tools and resources to promote school health.

Medical Matrix

<http://www.medmatrix.org/reg/register.asp>

—A physician peer-reviewed list with useful topical and specialty categorizations. It contains good links to MEDLINE, CME, and online publications. Registration is required.

MedicineNet

<http://www.medicinenet.com>

—A network of physician educators dedicated to providing up-to-date, quality medical information for the public. Links from this site include subject areas such as “Hot News!,” “Diseases & Treatments,” “Pharmacy Drugs,” “Ask The Experts,” “Medical Dictionary,” and “First Aid Information.”

MedlinePlus

<http://medlineplus.gov>

—A consumer health Web site from the National Library of Medicine, providing health professionals and consumers a wealth of authoritative, up-to-date medical information on over 800 diseases and medical conditions. Resources include lists of hospitals and physicians, a medical encyclopedia, a medical dictionary, extensive information on prescription and non-prescription drugs, health information from the media, and links to thousands of clinical trials. MedlinePlus is updated daily. Available in English and Spanish.

Medscape®

<http://www.medscape.com>

—Medscape, from WebMD®, offers medical specialists, primary care physicians, and other health professionals integrated medical information and education tools. Key features include “physician-optimized” MEDLINE, CME activities, conference coverage, daily professional medical news in your specialty, and the Internet’s first primary-source medical journal, Medscape General Medicine. A one-time, free registration allows Medscape to automatically deliver you to the specialty page (which you can change at any time) that best fits your profile.

My Family Health Portrait

<https://familyhistory.hhs.gov>

—A tool from the U.S. Surgeon General that allows users to create a family tree (drawing) and personalized family health history report from any computer with an Internet connection and an up-to-date browser. Focus is on six common diseases: heart disease, stroke, diabetes, colon cancer, breast cancer, and ovarian cancer. Other conditions that are of particular interest to the family can also be included. The drawing and the report can be printed and shared with family members and personal physicians. Also available in Spanish.

National Library of Medicine

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

—The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, is the world's largest medical library. The library collects materials and provides information and research services in all areas of biomedicine and health care.

National Library of Medicine Free Biomedical Literature Resources

<http://www.nlm.nih.gov/doctype/freehealthlit.html>

—This National Library of Medicine Web site offers links to a number of free biomedical literature resources, including PubMed, NCBI Bookshelf, the Public Library of Science, BioMed Central, and the Directory of Open Access Journals.

National Medical Association

<http://www.nmanet.org>

—Focuses primarily on health issues related to African Americans and medically underserved populations. Links include Continuing Medical Education (CME), Journal of the National Medical Association (JNMA), and Health Policy.

National Women's Health Information Center

<http://www.womenshealth.gov>

—This site offers information on more than 800 health topics specifically for women and staffs a call center. Includes information on special populations and information in Spanish. From the U.S. Department of Health and Human Services Office on Women's Health.

NIH Health Information

<http://health.nih.gov>

—From the National Institutes of Health. Includes quick links to Child & Teen Health, Men's Health, Minority Health, Seniors' Health, Women's Health, and Wellness & Lifestyle.

NursingNet

<http://www.nursingnet.org>

—Provides a forum for medical professionals and students to obtain and disseminate information about nursing and medically related subjects.

Office of Minority Health, U.S. Department of Health and Human Services

<http://www.omhrc.gov>

—Serves as a national resource and referral service on minority health issues for health professionals, consumers, grantseekers, students, and the media. Online resources include publications, funding announcements, and links to federal/state/local government agencies, educational institutions, non-profit/national advocacy/private organizations, and minority group health sites.

Partners in Information Access for the Public Health Workforce

<http://phpartners.org>

—A collaboration of U.S. government agencies, public health organizations, and health science libraries. The site provides links to health resources in the areas of Health Promotion and Education, Literature and Guidelines, Health Data Tools and Statistics, Grants and Funding, Education and Training, Legislation, Conferences and Meetings, Finding People, Discussion and E-mail Lists, and Jobs and Careers.

Public Health Information and Data Tutorial

<http://phpartners.org/tutorial>

—This tutorial from Partners in Information Access for the Public Health Workforce provides instruction on issues related to information access and management. Clear connections are established to recognized competencies in public health, and examples are included which represent much of the diversity inherent in the practice of public health. Content contributors and authors represent city, county, state, and federal agencies.

National Clearinghouse for Alcohol and Drug Information

<http://ncadi.samhsa.gov>

—Current and comprehensive information about substance abuse prevention and addiction treatment from the Substance Abuse and Mental Health Services Administration (SAMHSA).

Public Library of Science

<http://www.plos.org/journals>

—Provides free online access to original published reports of ideas, discoveries, and research results in the life sciences and medicine. The journals are searchable online and also available in print.

PubMed

<http://pubmed.gov>

—One of the National Library of Medicine's free search services. It provides access to over 19 million citations in MEDLINE and about HIV/AIDS, with links to participating online journals.

Rural Assistance Center State Resources

<http://www.raonline.org/states>

—The Rural Assistance Center (RAC) is a health and human services information portal established by the U.S. Department of Health and Human Services' Rural Initiative. Its objective is to provide rural communities and stakeholders access to the full range of programs, funding, and research available to them to enable them to provide quality health and human services to rural residents.

Virtual Hospital®

<http://uihealthcare.com/vh>

—After 13 years of service, on January 1, 2006, Virtual Hospital and Virtual Children's Hospital® ceased operations due to a lack of funding. However, the patient information is now available on the

University of Iowa's UI Health Care.com Web site. The information is prepared and reviewed by health professionals.

WebMD

<http://www.webmd.com>

—Provides a wide range of online health information for health care professionals and consumers. WebMD Health® includes consumer health information, health and wellness news, support communities, and interactive health management tools. Medscape® from WebMD provides clinical information and educational tools for health care professionals, including online continuing education, online coverage of medical conferences, access to over 100 medical journals, and daily medical news.

WholeHealthMD

<http://www.wholehealthmd.com>

—A complementary and alternative medicine Web site that is dedicated to providing the best in integrative health and wellness solutions. All material has been reviewed and developed by board-certified doctors. The Healing Center section of the site provides overviews on a wide range of conditions. Other sections include Healing Kitchen, Expert Opinions, Reference Library, News and Perspectives, and Supplements.

Selected Internet Resources in HIV/AIDS

AIDS.GOV

<http://aids.gov>

AIDS.ORG

<http://aids.org>

AIDS Action Committee of Massachusetts

<http://www.aac.org>

AIDS Education Global Information System (AEGIS)

<http://www.aegis.org>

AIDS History Project

<http://www.library.ucsf.edu/collections/archives/manuscripts/aids>

AIDS Images Library

<http://www.aids-images.ch>

AIDS Information and Controversy 1985–1995

<http://aidsinfobbs.org>

AIDS InfoNet

<http://www.aidsinfonet.org>

AIDS Project Los Angeles

<http://www.apla.org>

AIDS Resource List

<http://www.specialweb.com/aids>

AIDS Treatment Data Network

<http://www.atdn.org>

AIDS Treatment News

<http://www.thebody.com/content/art31573.html>

AIDSinfo

<http://www.aidsinfo.nih.gov>

aidsinfonyc.org

<http://www.aidsinfonyc.org>

Aidsmap

<http://www.aidsmap.com>

All the Virology on the WWW

<http://www.virology.net/garryfavweb.html>

The Alternative Medicine HomePage

<http://www.pitt.edu/~cbw/altm.html>

American Foundation for AIDS Research (amfAR) Global Link

<http://www.amfar.org/globalink>

American Red Cross

<http://www.redcross.org>

Australian Federation of AIDS Organisations

<http://www.afao.org.au>

The Body

<http://www.thebody.com>

California AIDS Clearinghouse

<http://www.hivinfo.org>

Canadian AIDS Treatment Information Exchange

<http://www.catie.ca>

Canadian HIV Trials Network

<http://www.hivnet.ubc.ca/e/home/>

Center for AIDS Prevention Studies

<http://www.caps.ucsf.edu>

Centers for Disease Control and Prevention (CDC) HIV/AIDS

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

Center for Mental Health Research on AIDS (CMHRA)

<http://www.nimh.nih.gov/about/organization/dahbr/center-for-mental-health-research-on-aids/>

Critical Path AIDS Project

<http://www.critpath.org>

GMHC on the Web Gay Men's Health Crisis

<http://www.gmhc.org>

Healthfinder.gov

<http://www.healthfinder.gov>

**Health Resources and Services Administration (HRSA) HIV/AIDS Program:
Caring for the Underserved**

<http://www.hab.hrsa.gov>

Health Services/Technology Assessment Text (HSTAT)

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=hstat>

HIV Databases

<http://www.hiv.lanl.gov/>

HIV InSite

<http://hivinsite.ucsf.edu>

HIV/AIDS Prevention Web Sites for Communities of Color

<http://orise.orau.gov/healthcomm/hiv-aids-prevention.htm>

HIV/AIDS Surveillance (U.S. Census Bureau)

<http://www.census.gov/ipc/www/hivaidsn.html>

HIV/AIDS Vaccines

<http://www3.niaid.nih.gov/topics/HIVAIDS/research/vaccines/>

HIVandHepatitis.com

<http://hivandhepatitis.com>

HIVdent (dental information)

<http://www.hivdent.org>

HIVpositive.com

<http://www.hivpositive.com>

How to Find Reliable HIV/AIDS Treatment Information on the Internet

<http://orise.orau.gov/healthcomm/hiv-aids-treatment.htm>

International AIDS Society

<http://www.iasociety.org>

International Association of Physicians in AIDS Care

<http://www.iapac.org>

Johns Hopkins HIV Guide

<http://www.hopkins-aids.edu>

Joint United Nations Programme on HIV/AIDS

<http://www.unaids.org>

MedlinePlus AIDS

<http://medlineplus.gov/aids>

Medscape HIV/AIDS

<http://www.medscape.com/hiv>

National AIDS Treatment Advocacy Project (NATAP)

<http://www.natap.org>

National Clearinghouse for Alcohol and Drug Information

<http://ncadi.samhsa.gov>

National HIV/AIDS Clinicians' Consultation Center (NCCC)

<http://www.nccc.ucsf.edu>

National Institute of Allergy and Infectious Diseases (NIAID)

<http://www3.niaid.nih.gov/>

National Institutes of Health (NIH) Office of AIDS Research (OAR)

<http://www.oar.nih.gov>

National Library of Medicine HIV/AIDS Portal

<http://sis.nlm.nih.gov/hiv.html>

National Minority AIDS Council

<http://www.nmac.org>

National Prevention Information Network

<http://www.cdcnpin.org>

New York Academy of Medicine, HIV/AIDS Information Outreach Program

<http://www.aidsnyc.org>

NIAID Division of Acquired Immunodeficiency Syndrome

<http://www3.niaid.nih.gov/about/organization/daids/>

Partners in Information Access for the Public Health Workforce—HIV

<http://phpartners.org/hp/hiv.html>

Positive.org

<http://www.positive.org/Home>

Project Inform

<http://www.projinf.org>

PubMed

<http://pubmed.gov>

PubMed Training Manual (NLM)

http://www.nlm.nih.gov/pubs/web_based.html

PubMed Tutorial (NLM)

<http://www.nlm.nih.gov/bsd/disted/pubmedtutorial/>

Rural Center for AIDS/STD Prevention

<http://www.indiana.edu/~aids>

San Francisco AIDS Foundation

<http://www.sfaf.org>

Social Security Administration

<http://www.ssa.gov>

The TB/HIV Research Laboratory at Brown University

<http://research.brown.edu/research/labs.php>

U.S. Department of Health and Human Services

<http://www.os.dhhs.gov>

U.S. Food and Drug Administration, HIV and AIDS

<http://www.fda.gov/oashi/aids/hiv.html>

World Health Organization, Tuberculosis

<http://www.who.int/tb/en/>

Yahoo AIDS/HIV Resources

http://dir.yahoo.com/health/diseases_and_conditions/aids_hiv

Savvy Health Surfing

Questions to Ask About Health-related Web Sites



Authority and Accuracy

- ▶ Who is the author or source?
- ▶ Can you verify their credentials?
- ▶ Do they represent a recognized organization or is it a personal page?
- ▶ Is affiliation information provided?
- ▶ Does the Web site have an advisory board?
- ▶ Can the information be verified through links to the sources?
- ▶ If the site offers advice, do qualified health professionals provide it?
- ▶ Is contact information provided?

Coverage

- ▶ Who is the intended audience for this site?
- ▶ What is the purpose of the site?
- ▶ Does the site promote or advocate a viewpoint?
- ▶ Is the depth of coverage on the site reasonable?
- ▶ Is the information primary or secondary?
- ▶ If appropriate, are there links to additional information?

Currentness

- ▶ When was the site created?
- ▶ When was the site last updated?
- ▶ When was the data or information collected?
- ▶ Are the links kept up to date?

Objectivity

- ▶ Is the purpose of the site clearly stated?
- ▶ Is the information presented objectively?
- ▶ Is any sponsorship clearly acknowledged?

Design Features

- ▶ Is the site well-organized and user-friendly?
- ▶ Is the site easy to navigate?
- ▶ Is the graphic layout of the site pleasing? Is it clear and uncluttered?
- ▶ Are there any features that increase or decrease usability? Do you need additional viewers or plug-ins?
- ▶ Is there an internal search engine on the site?
- ▶ Are there customizable options?
- ▶ Can you ask questions or provide feedback?
- ▶ Is the site accessible to individuals with disabilities?

Contacting the National Library of Medicine for Database Assistance

Toll-free: 888-FIND-NLM (346-3656)
E-mail: custserv@nlm.nih.gov
TOXNET E-mail: tehip@teh.nlm.nih.gov

Online Resources

Online Training Manuals	http://www.nlm.nih.gov/pubs/web_based.html (ClinicalTrials.gov, NLM Gateway, PubMed, TOXNET)
Tutorials	http://www.nlm.nih.gov/bsd/disted/pubmedtutorial/ (PubMed)
Fact Sheets	http://www.nlm.nih.gov/pubs/factsheets/factsheets.html
Frequently Asked Questions	http://www.nlm.nih.gov/services/faq.html
See also Help and FAQ links on each database home page.	

The National Network of Libraries of Medicine

Toll-free number for all Regional Medical Libraries: 800-338-7657
Monday-Friday 8:30 a.m.–5:00 p.m. in all time zones

Web site: <http://nnlm.gov>

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