

HIV/AIDS Information Resources

from the
National
Library
of Medicine



HIV/AIDS Community Information Outreach Program
2010 Awardees





HIV/AIDS INFORMATION RESOURCES FROM THE NATIONAL LIBRARY OF MEDICINE

**A Specialized Training Workbook
developed for the**

**Recipients of the
2010 HIV/AIDS Community Information Outreach Program Awards**

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.



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.

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.

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 screening and testing, prevention, treatment, and research. The National Library of Medicine (NLM), of the National Institutes of Health (NIH), has a wealth of health information resources freely available on the Internet to address these needs.

The *HIV/AIDS Information Resources from the National Library of Medicine* workbook is designed to provide valuable health information resources, from the NLM and other reliable sources, to increase awareness of the abundance of treatment information and educational materials that are available on the Internet. These resources will meet the needs of community-based organizations and AIDS service organizations, as well as others that need the most accurate and up-to-date information regarding the management of HIV and AIDS, including clinical trials, HIV/AIDS drugs, treatment guidelines, and medical literature.

This workbook contains a brief summary of NLM resources followed by search exercises using realistic scenarios. Additional resources, selected for the quality and relevant content, are also included for your reference.



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.

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Introduction

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

- 9% of U.S. Adults Suffer from Depression (10/01/10)
- Kidney Disease Linked to Future Heart Disease, Stroke Risk (10/01/10)
- Lifestyle Intervention Improves Risk Factors in Type 2 Diabetes (10/01/10)
- [More Health News](#)

NLM News and Press Releases

- NCBI Launches the Database of Genomic Structural Variations (press announcement) (09/30/10)
- Public-Private Partnership for Standards: Kaiser Permanente Opens Access to Convergent Medical Terminology to Support National Health IT Goals (press announcement) (09/30/10)
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- National Library of Medicine Launches Application Programming Interface (API) Web Page (09/17/10)
- [More NLM News](#)

NLM in focus

Presenting *NLM in focus*. This new online newsletter gives you a behind-the-scenes glimpse of NLM—its people, programs and services.

Connect with NLM

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

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](#)

NIHSeniorHealth The health Web site for older adults
[VISIT SITE](#)

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

www.nlm.nih.gov

Introduction

Why the National Library of Medicine?

The National Library of Medicine (NLM) is the world's largest biomedical library and part of the National Institutes of Health. The health information that NLM makes available on the Internet is free, easily and quickly accessible, and of the highest quality and reliability.

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 over 20 million references to journal articles published in 5,400 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 over 8,500 health-related organizations offering information and referral for many diseases and conditions

Basic Internet Skills

 United States
National Library of Medicine
National Institutes of Health

The World's Largest Medical Library


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

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- Researchers
- Librarians
- Publishers

Current Health News

- [9% of U.S. Adults Suffer from Depression](#) (10/01/10)
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- [National Library of Medicine Launches Application Programming Interface \(API\) Web Page](#) (09/17/10)

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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](#)

 **NIHSeniorHealth**
The health Web site for older adults
[VISIT SITE](#)

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

www.nlm.nih.gov

Basic Internet Skills

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

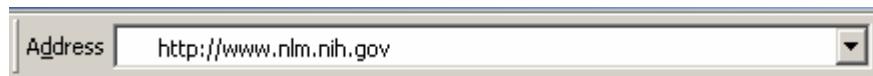
The Internet and the World Wide Web (Web) are not the same thing. The Internet is a worldwide network of computer networks that can all “talk” to each other using languages called “protocols.” The Web is only one portion of the Internet, the best known part, and is viewed with a graphical interface software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

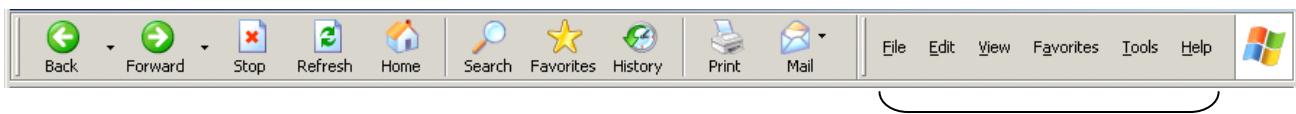
Favorites...to go to pages you have “bookmarked”

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...

Edit, and then **Find (on This Page)**...to find key words on the page you are viewing

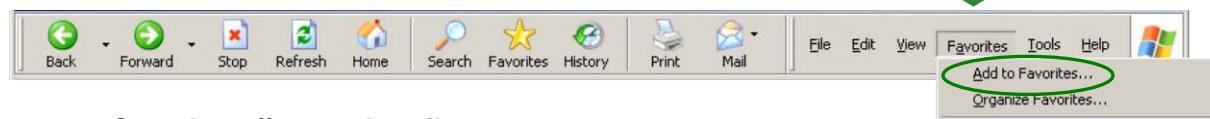
View, and then **Text Size**...to increase or decrease the text size on the page

Favorites...to bookmark a Web page or to organize your bookmarks

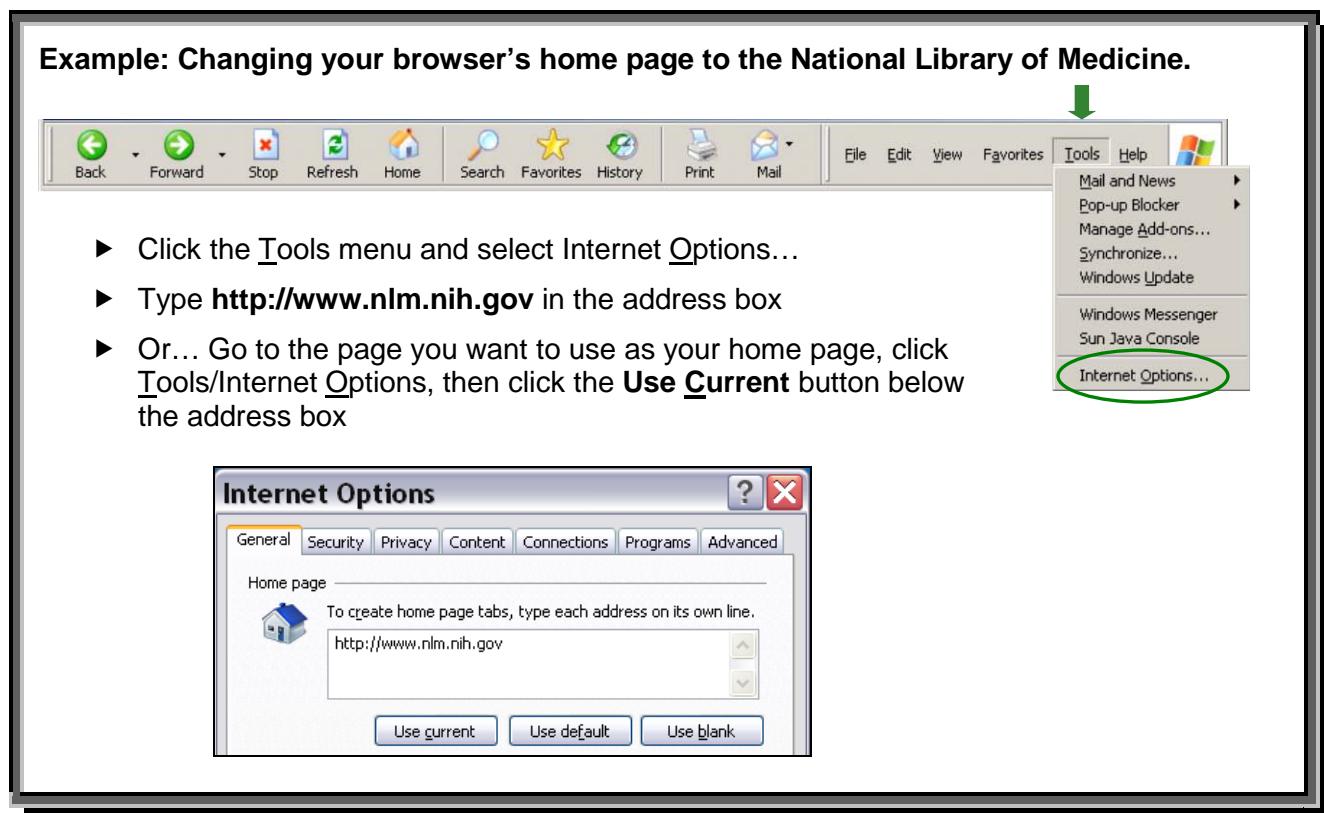
Tools, and then **Internet Options**...to customize your browser

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 Favorites menu and select Add to Favorites



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.

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

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?

Then, identify the search terms to describe those concepts:

- ▶ children, hiv, treatment

Consider synonyms and variations of those terms:

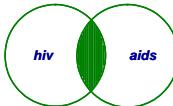
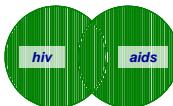
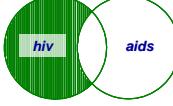
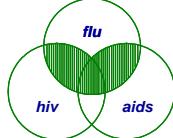
- ▶ children, childhood, juvenile, youth, child, adolescent

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.

hiv AND aids	
hiv OR aids	
hiv NOT aids	
(hiv OR aids) AND flu	

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:
www.thelist.com
- ▶ Browsers (cnet Download.com):
download.cnet.com/windows/browsers
- ▶ General Internet Information
nnlm.gov/scr/technology/internetfaq1.html
- ▶ Internet Information Access Resources
nnlm.gov/scr/technology/internetfaq2.html
- ▶ Internet Basics (Seniors)
nihseniorhealth.gov/toolkit/toolkitfiles/pdf/Module_1.pdf
- ▶ Web Junction:
webjunction.org

Selected World Wide Web Search Tools

Major Search Directories and Search Engines

- ‘ **AllTheWeb.com** alltheweb.com
- ‘ **AltaVista.com** altavista.com
- ‘ **Ask.com** ask.com
- ‘ **Bing.com** bing.com
- ‘ **Google** google.com
- ‘ **HotBot** hotbot.com
- ‘ **MSN Search** search.msn.com
- ‘ **Yahoo!** yahoo.com

Meta Search Engines

- ‘ **Dogpile** dogpile.com
- ‘ **InfoGrid** infogrid.com
- ‘ **Ixquick** ixquick.com
- ‘ **Mamma** mamma.com
- ‘ **SurfWax** surfwap.com
- ‘ **Vivisimo** vivisimo.com

Miscellaneous

- ‘ **Search Engine Watch – Information for Web Designers**
searchenginewatch.com
- ‘ **CataList – Reference Site for LISTSERV® lists**
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

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Search NLM Web Site Go

Especially for:

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

Current Health News

[9% of U.S. Adults Suffer from Depression](#) (10/01/10)
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 Listen to what's new in consumer health on [MedlinePlus](#)

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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

NIH SeniorHealth
The health Web site for older adults

FLU.GOV
Know what to do about the flu.

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?

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
www.hon.ch/HONcode
- ▶ Evaluating Internet Health Information: A Tutorial from the National Library of Medicine
nlm.nih.gov/medlineplus/webeval/webeval.html
- ▶ MedlinePlus—Evaluating Health Information
nlm.nih.gov/medlineplus/evaluatinghealthinformation.html
- ▶ National Network of Libraries of Medicine—Is this health information good for me?
nnlm.gov/pnr/hip/criteria.html
(en Español: nnlm.gov/pnr/hip/informacion.html)
- ▶ Quackwatch
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: www.thinktwice.com					
2: tourette13.tripod.com/					
3: www.healthfree.com					
4: www.malepregnancy.com					
5: www.healthcentral.com					
6: www.drugs.com					
7: www.thebody.com					
8: www.nwsids.org					
9: www.medical-library.net					
10: www.webmd.com					
11: www.drclark.net					
12: www.aaemonline.org					
13: www.pslgroup.com/dg950925.htm					
14: www.amaasportsmed.org					
15: www.bonetumor.org					
16: www.biausa.org					
17: sparkaction.org					
18: www.curezone.com					

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AIDSinfo

AIDSinfo infoSIDA 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 (1-800-448-0440)

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

GUIDELINES UPDATED

Guidelines for the treatment of HIV/AIDS, reviewed and updated by experts in the field:

- › Treatment / Prevention
- › About the HIV Treatment Guidelines
- › Download / Order

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

NATIONAL GAY MEN'S HIV/AIDS AWARENESS DAY SEPTEMBER 27

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

MORE AIDSINFO

More useful AIDSinfo features:

- › RSS Feeds
- › Live Help
- › Order Publications
- › HIV/AIDS Glossary
- › Translation Tool

What's New on AIDSinfo

FOLLOW US ON  **twitter**

Highlights

- New dosing recommendations to prevent potential Valcyte (valganciclovir) overdose in pediatric transplant patients - September 15, 2010
- AIDSinfo launches mobile site - August 27, 2010

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 homepage with several callout boxes and arrows:

- Search Categories**: Points to the main navigation categories on the left: Guidelines, Drugs, Clinical Trials, Vaccines, Health Topics, and More AIDSinfo.
- Live Help Via the Internet**: Points to the "Live Help" button in the top right corner.
- Subscribe to Listserv**: Points to the "Subscribe to Listserv" link in the bottom right corner.

The website features a blue header with the AIDSinfo logo and a search bar. The main content area is organized into six main categories:

- GUIDELINES**: Offers updated guidelines for the treatment of HIV/AIDS, reviewed and updated by experts in the field.
- DRUGS**: Provides fact sheets on HIV/AIDS-related drugs, including FDA-Approved Drugs and Investigational Drugs.
- CLINICAL TRIALS**: Details research studies on drugs, vaccines, and other new or existing treatments for HIV/AIDS.
- VACCINES**: Information on preventative and therapeutic HIV vaccine research.
- HEALTH TOPICS**: Find resources on HIV/AIDS-related topics.
- MORE AIDSINFO**: More useful AIDSinfo features like RSS Feeds, Order Publications, and a Glossary.

On the right side, there are sections for "What's New on AIDSinfo", "Follow Us on Twitter", and "Highlights".

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 the following

- ▶ **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.

Staying Connected



Mobile Version

Mobile AIDSinfo offers a mobile site that allows users to access its resources and information for phones and other mobile devices. The mobile version is available at m.aidsinfo.nih.gov.



Follow us on Twitter

Twitter provides MedlinePlus users with short, timely, and instantly updated health news and information. Join and follow at twitter.com/medlineplus4you .



GET E-mail Updates

E-mail announcements contain links to new topics and sites on MedlinePlus along with other notices. You can sign up to receive general emails covering all health topics, or you can sign up to receive emails about specific topics.



Subscribe to RSS

Really Simple Syndication (RSS) provides notification when new content, press announcements and health news articles are published on MedlinePlus, without cluttering your inbox with e-mail messages.

Additional Resources

For further information, we recommend these additional resources:

- ▶ AIDSinfo Brochure
aidsinfo.nih.gov/contentfiles/ai_brochure.pdf
- ▶ AIDSinfo Workbook
nnlm.gov/training/consumer/nlm_databases/chdatabases_aids.doc
- ▶ AIDSinfo Glossary
aidsinfo.nih.gov/ContentFiles/GlossaryHIV-relatedTerms_FifthEdition_en.pdf
- ▶ Glosario del VIH/SIDA
aidsinfo.nih.gov/ContentFiles/SpanishGlossary_sp.pdf
- ▶ *infoSIDA*
aidsinfo.nih.gov/infosida/



AIDSinfo Search Exercises

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

Suggested Solution:

- ▶ Go to 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

The screenshot shows the CDC MMWR website. The header includes the CDC logo, a blue navigation bar with 'CDC Home', 'Search', and 'Health Topics A-Z', and the text 'MMWR Recommendations and Reports'. Below the header, the date 'September 27, 2006, 55(38):1-17' is displayed. The main content is titled 'Revised Recommendations for HIV Testing of Adults, Adolescents, and Pregnant Women in Health-Care Settings'. The authors listed are Bernard M. Branson, MD¹; E. Hunter Handsfield, MD²; Margaret A. Lange, MPH³; Robert S. Janssen, MD¹; Alan W. Taylor, MD¹; Sheryl B. Lynn, MD¹; and Jil E. Clark, MPH³. Footnotes at the bottom mention the division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (proposed) and the division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (proposed) and University of Washington, Seattle, Washington. The text 'Northrop Grumman Information Technology (contractor with CDC)' is also present.

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

The screenshot shows the AIDSinfo website. The header includes the AIDSinfo logo, 'AIDSinfo A Service of the U.S. Department of Health and Human Services', and 'Offering information on HIV/AIDS Treatment, Prevention, and Research'. The top navigation bar includes 'Live Help', 'Subscribe to Listserv', 'Español', 'Site Tools', 'Search', 'E-mail | 1-800-HIV-0440 (1-800-448-0440)', and 'Go'. Below the header, there are links for 'Guidelines', 'Drugs', 'Clinical Trials', 'Vaccines', 'Health Topics', and 'More AIDSinfo'. The main content is titled 'Revised Guidelines for Counseling, Testing, and Referral'. The text 'Home > Clinical Guidelines > Revised Guidelines for Counseling, Testing, and Referral' is at the top, followed by 'Revised Guidelines for Counseling, Testing, and Referral' in a large red box. The bottom of the page includes links for 'Text Size', 'Print', 'RSS', and 'Order Pub's'.

Search Exercises: Guidelines Category

Exercise 1: What are the guidelines for incorporating HIV prevention messages into the medical care of HIV positive patients? Review the HTML version.

Suggested Solution:

Click	Guidelines tab at the top of the page
Click	<u>Incorporation of HIV Prevention</u> under Management of HIV Complications in the menu bar to the left
Click	<u>HTML Version (1 KB)</u> under Incorporating HIV Prevention into the Medical Care of Persons Living with HIV - July 18, 2003
Review	the document and close the pop-up window

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

Suggested Solution:

Click	Guidelines tab
Click	first topic in the Guidelines News box at the top right of the page
Review	the information
Use the browser's Back button to return to the Clinical Guidelines Portal or close the pop-up window	
Click	<u>Subscribe to Listserv</u> at the top right of the page and follow the online instructions for subscribing to the Listserv

Exercise 3: Locate the most recent guidelines for the use of antiretroviral therapy for the treatment of HIV-positive pregnant women. Compare the current guidelines to the guidelines from 1998.

Suggested Solution

- Click **Guidelines** tab
- Click Perinatal Guidelines under **Maternal-Child Transmission** in the menu bar to the left
- Click PDF Version (1.2 MB) under **Recommendations for Use of Antiretroviral Drugs in Pregnant HIV-1-Infected Women for Maternal Health and Interventions to Reduce Perinatal HIV Transmission in the United States – May 24, 2010**
- Review the document and close the pop-up window
- Click Previous Versions under **Archives** in the menu bar to the left
- Scroll to Perinatal Guidelines section of the page
- Click PDF link for “Friday, January 30, 1998”
- Review the document and close the pop-up window

Exercise 4: Perform a Guidelines search of your choice.

Search Exercises: Drug Category

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

Suggested Solution:

- Click **Drugs** tab at the top of the page
- Type **kaletra** in the **Drug Name** search box under **Search the Drug Database**
- Click **Search** button
- Click Kaletra (Kaletra) 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.

Exercise 6: Is dizziness a side effect of *Atripla*? Use the alphabetical search feature.

Suggested Solution:

Click	Drugs tab
Click	A under Alphabetical Search
Click	<u>Atripla</u>
Click	Health Professional Version
	 Detailed Information is provided only in the health professional version.
Scroll	to the <u>Adverse Events/Toxicity</u> section and review the information

Exercise 7: The FDA recently approved *Intelence*, a non-nucleoside reverse transcriptase inhibitor (NNRTI). What is the mode of delivery and dosing form for *Intelence*?

Suggested Solution:

Click	Drugs tab
Type	intelence in the Drug Name search box
Click	Search button
Click	Intelence (Intelence)
Review	the Dosage Form/ Administration section

Exercise 8: Using the alphabetical search feature, review the Spanish fact sheet for *Darunavir*.

Suggested Solution:

Click	Drugs tab
Click	D under Alphabetical Search
Click	<u>Darunavir</u>
Click	Spanish Version

Exercise 9: View the list of investigational microbicides. Review the clinical trial status of one of the investigational drugs.

Suggested Solution #1:

Click	Drugs tab
Select	<u>Microbicides</u> from the Drug Class pull-down menu
Select	<u>Investigational</u> from the Drug Approval pull-down menu
Click	Search button

- Click an 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

Suggested Solution #2:

- Click **Drugs** tab
- Click Microbicides under **Investigational** in the menu bar to the left
 -  Note the drug names that appear below the link in the menu bar
- Click an 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

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

Suggested Solution:

- Click **Drugs** tab
- Type **nevirapine** in the **Drug Name** search box
- Click **Search** button
- Click Nevirapine (Viramune)
- Review the **Recommended Daily Dose** section in the patient fact sheet
- Click Health Professional Version and review the **Dosing Information**

Search Exercises: Clinical Trials Category

Exercise 11: Are there any studies investigating kidney complications of HIV/AIDS?

Suggested Solution:

- Click **Clinical Trials** tab at the top of the page
- Type **kidney disease** in the **Search Term** box
- Click **Search** button
- Review the clinical trial record(s) and close the ClinicalTrials.gov window

Exercise 12: Browse the listing of studies investigating HIV prevention in Substance Users.

Suggested Solution:

Click	Clinical Trials tab
Click	Quick Search tab
Click	Prevention Research topic
Click	HIV Prevention in Substance Users from the expanded list of subtopics
Review	the clinical trial record(s) and close the ClinicalTrials.gov window

Exercise 13: Find all HIV/AIDS trials in your home state.

Suggested Solution:

Click	Clinical Trials tab
Click	Advanced Search tab
Select	your home state from the pull-down menu
Click	Search button
Review	the clinical trial record(s) and close the ClinicalTrials.gov window

Exercise 14: Are there any clinical trials studying whether the H1N1 vaccine provides protection for HIV-infected pregnant women?

Suggested Solution:

Click	Clinical Trials tab
Click	Advanced Search tab
Type	pregnant in the Conditions box
Type	H1N1 in the Interventions box
Click	Search button
Review	the clinical trial record(s) and close the ClinicalTrials.gov window

Exercise 15: Are there any clinical trials studying the use of dietary supplements in HIV-infected individuals?

Suggested Solution:

Click	Clinical Trials tab
Click	Advanced Search tab
Type	dietary supplements in the Interventions search box
Click	Search button
Review	the clinical trial record(s) and close the ClinicalTrials.gov window

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 **96,602 trials** with locations in **174 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.

Contact Help Desk
Lister Hill National Center for Biomedical Communications, U.S. National Library of Medicine,
U.S. National Institutes of Health, U.S. Department of Health & Human Services,
USA.gov. Copyright, Privacy, Accessibility, Freedom of Information Act

 This site complies to the [HONcode standard](#) for trustworthy health information: [verify here](#).

[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 recruiting participants. The database currently contains information on over 96,000 trials with locations in 174 countries.

clinicaltrials.gov

Searching ClinicalTrials.gov

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

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

[Basic Search](#) [Advanced Search](#) [Studies by Topic](#) [Studies on Map](#)

Fill in any or all of the fields below.

Click on a label to the left for further explanation or read the [Help](#).

Search Terms: [Search](#) [Help](#)

Recruitment: [All Studies](#) [Refine Search](#)

Study Results: [All Studies](#) [Results by Topic](#)

Study Type: [All Studies](#) [Results on Map](#)

Targeted Search:

Conditions:

Interventions:

Outcome Measures:

Lead Sponsors: [Exact Match](#)

Sponsors: [Exact Match](#)

Study IDs:

Locations:

State 1: [Optional ...](#)

Country 1: [Optional ...](#)

State 2: [Optional ...](#)

Country 2: [Optional ...](#)

State 3: [Optional ...](#)

Country 3: [Optional ...](#)

Location Terms:

Additional Criteria:

Gender: [All Studies](#)

Child (birth-17)
 Adult (18-65)
 Senior (66+)

Age Group: Phase I Phase II
 Phase III Phase IV

Advanced Search Screen

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

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

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

[List Results](#) [Refine Search](#) [Results by Topic](#) [Results on Map](#) [Search Details](#)

Found 5877 studies with search of: diabetes

[Hide studies that are not seeking new volunteers](#) [Display Options](#)

Rank	Status	Study
1	Recruiting	Study to Find Out If Intensive Diabetes Clinic and Continuous Glucose Monitors Help Teenagers With Diabetes Condition: Type 1 Diabetes Mellitus Interventions: Behavioral: Diabetes related psychological counseling and education; Device: Continuous Glucose Monitor
2	Not yet recruiting	Evaluation of a Diabetes-specific Cognitive Behavioral Treatment for Subthreshold Depression Conditions: Depressive Symptoms, Diabetes Mellitus Interventions: Behavioral: Diabetes-Specific Cognitive-Behavioral Group Sessions; Behavioral: Educative Group Lesson and Discussion
3	Completed	Obese Patients With Type 2 Diabetes Conditions: Obesity, Diabetes Mellitus, Non-insulin-Dependent, Obesity in Diabetes Intervention: Drug: Rimonabant (SR141716)
4	Active, not recruiting	Exploratory Study of Icicle Oral Rinse in a Diabetic Population Conditions: Diabetes Type 2, Periodontitis Interventions: Drug: Icicle Mouth Rinse Placebo; Drug: Icicle Mouth Rinse
5	Recruiting	The Effect of a Diabetes Action Team in Patients Post Bariatric Surgery With and Without Diabetes Conditions: Type 2 Diabetes, Peripheral Vascular Disease Interventions: Behavioral: Diabetes Action Team. Patients who undergo elective infrarenal bypass surgery will receive standard diabetes care by their admitting physician. Behavioral: Subjects with diabetes who plan to undergo elective infrarenal bypass surgery will receive diabetes care under the

List Results Screen

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

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

[List Results](#) [Refine Search](#) [Results by Topic](#) [Results on Map](#) [Search Details](#)

Found 5877 studies with search of: diabetes

[Hide studies that are not seeking new volunteers](#) [Display Options](#)

Display Options - choose fields to display in search results below

<input checked="" type="checkbox"/> Condition	<input checked="" type="checkbox"/> Intervention	<input type="checkbox"/> Sponsor	<input type="checkbox"/> Gender
<input type="checkbox"/> Phase	<input type="checkbox"/> Number Enrolled	<input type="checkbox"/> Funded By	<input type="checkbox"/> Age Group
<input type="checkbox"/> NCT ID	<input type="checkbox"/> Other IDs	<input type="checkbox"/> First Received Date	<input type="checkbox"/> Study Type
<input type="checkbox"/> Last Updated Date	<input type="checkbox"/> Last Verified Date	<input type="checkbox"/> Start Date	<input type="checkbox"/> Study Design
	<input type="checkbox"/> Acronym	<input type="checkbox"/> Completion Date	<input type="checkbox"/> Primary Completion Date
		<input type="checkbox"/> Outcome Measure	

Rank **Status** **Study**

1	Recruiting	Study to Find Out If Intensive Diabetes Clinic and Continuous Glucose Monitors Help Teenagers With Diabetes Condition: Type 1 Diabetes Mellitus Interventions: Behavioral: Diabetes related psychological counseling and education; Device: Continuous Glucose Monitor
2	Not yet recruiting	Evaluation of a Diabetes-specific Cognitive Behavioral Treatment for Subthreshold Depression Conditions: Depressive Symptoms, Diabetes Mellitus Interventions: Behavioral: Diabetes-Specific Cognitive-Behavioral Group Sessions; Behavioral: Educative Group Lesson and Discussion
3	Completed	Obese Patients With Type 2 Diabetes Conditions: Obesity, Diabetes Mellitus, Non-insulin-Dependent, Obesity in Diabetes Intervention: Drug: Rimonabant (SR141716)
4	Active, not recruiting	Exploratory Study of Icicle Oral Rinse in a Diabetic Population Conditions: Diabetes Type 2, Periodontitis Interventions: Drug: Icicle Mouth Rinse Placebo; Drug: Icicle Mouth Rinse

List Results Screen with Display Options



ClinicalTrials.gov Search Exercises

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

Suggested Solution:

- ▶ Go to clinicaltrials.gov
- ▶ Click **Search for Clinical Trials**

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

Home Search Study Topics Glossary

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](#)

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

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

Home Search Study Topics Glossary

Basic Search Advanced Search Studies by Topic Studies on Map

Enter a word or phrase, such as the name of a medical condition or intervention.

Example: Heart Attack AND Los Angeles

Advanced Search Help

- ▶ Review record(s) of your choice

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

Home Search Study Topics Glossary

List Results Refine Search Results by Topic Results on Map Search Details

Found 25 studies with search of: nelfinavir cancer

[Hide studies that are not seeking new volunteers.](#) [Display Options](#)

Rank	Status	Study
1	Recruiting	Nelfinavir, a Phase II/Phase II Rectal Cancer Study Conditions: Colorectal Cancer; Colorectal Carcinoma; Colorectal Tumors; Neoplasms, Colorectal Intervention: Drug: nelfinavir
2	Recruiting	Stereotactic Radiation Therapy, Nelfinavir Mesylate, Gemcitabine Hydrochloride, Leucovorin Calcium, and Fluorouracil in Treating Patients With Locally Advanced Pancreatic Cancer Conditions: Pancreatic Cancer; Adenocarcinoma of the Pancreas; Stage III Pancreatic Cancer Interventions: Drug: gemcitabine hydrochloride; Drug: leucovorin calcium; Drug: fluorouracil; Drug: nelfinavir mesylate; Radiation: stereotactic body radiation therapy; Radiation: hypofractionated radiation therapy; Procedure: therapeutic conventional surgery; Other pharmacological study; Genetic: polymorphism analysis; Other: supportive care

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

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

Home **Search** Study Topics Glossary

List Results Refine Search Results by Topic Results on Map Search Details

Found 25 studies with search of: nelfinavir cancer

[Hide studies that are not seeking new volunteers.](#) [Display Options](#)

Rank	Status	Study
1	Recruiting	Nelfinavir, a Phase II/Phase II Rectal Cancer Study Conditions: Colorectal Cancer; Colorectal Carcinoma; Colorectal Tumors; Neoplasms, Colorectal Intervention: Drug: nelfinavir
2	Recruiting	Stereotactic Radiation Therapy, Nelfinavir Mesylate, Gemcitabine Hydrochloride, Leucovorin Calcium, and Fluorouracil in Treating Patients With Locally Advanced Pancreatic Cancer Conditions: Pancreatic Cancer; Adenocarcinoma of the Pancreas; Stage III Pancreatic Cancer Interventions: Drug: gemcitabine hydrochloride; Drug: leucovorin calcium; Drug: fluorouracil; Drug: nelfinavir mesylate; Radiation: stereotactic body radiation therapy; Radiation: hypofractionated radiation therapy; Procedure: therapeutic conventional surgery; Other pharmacological study; Genetic: polymorphism analysis; Other: supportive care

Search Exercises

Exercise 1: Do any clinical trials focus on the impact of probiotics on the immune system?

Suggested Solution:

Click	<u>Search for Clinical Trials</u>
Click	Advanced Search tab
Type	immune system in the <u>Search Terms</u> box
Type	probiotics in the <u>Intervention</u> box
Click	Search button and review record(s) of your choice

Exercise 2: Can *Naltrexone* reduce Crystal Meth dependence?

Suggested Solution:

Click	<u>Search</u> in the header bar
Click	Advanced Search tab
Type	crystal meth dependence in the <u>Conditions</u> box
Type	naltrexone in the <u>Interventions</u> box
Click	Search button and review record(s) of your choice

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

Suggested Solution:

Click	<u>Search</u> in the header bar
Click	Advanced Search tab
Type	tuberculosis in the <u>Conditions</u> box
Click	Search button
Click	Refine Search tab
Type	multi drug resistant in the <u>Search Terms</u> box
Click	Search button and review record(s) of your choice

Exercise 4: Find Phase III clinical trials for breast cancer for women living in your state.

Suggested Solution:

Click	<u>Search</u> in the header bar
Click	Advanced Search tab

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

Exercise 5: Find all HIV/AIDS clinical trials located in Florida. Next, map the locations of all HIV/AIDS clinical trials in the United States.

Suggested Solution:

Click	Search in the header bar
Click	Advanced Search tab
Type	hiv aids in the <u>Conditions</u> box
Select	<u>United States, Florida</u> from the State pull-down menu
Click	Search button and review record(s) of your choice
Click	Return to Search Results button
Click	Results on Map tab
Click	United States on the map

Exercise 6: Using the Studies by Topic feature, retrieve records for clinical trials studying Chronic Hepatitis C.

Suggested Solution:

Click	Study Topics tab
Click	<u>Alphabetic (A-Z)</u> under Conditions
Click	<u>H</u>
Click	Hepatitis C, Chronic
Review	record(s) of your choice

Exercise 7: Using the Studies by Topic feature, review records for clinical trials studying rare diseases starting with L. Review the records for Lipodystrophy.

Suggested Solution:

Click	Study Topics tab
Click	<u>Alphabetic (A-Z)</u> under Rare Diseases

- Click L
- Click **Lipodystrophy**
- Review record(s) of your choice

Exercise 8: What should people consider before participating in a clinical trial?

Suggested Solution:

- Click **Home** in the header bar
- Click **Understanding Clinical Trials** on the right side of the page
- Scroll to **What should people consider before participating in a trial?**
- Review information

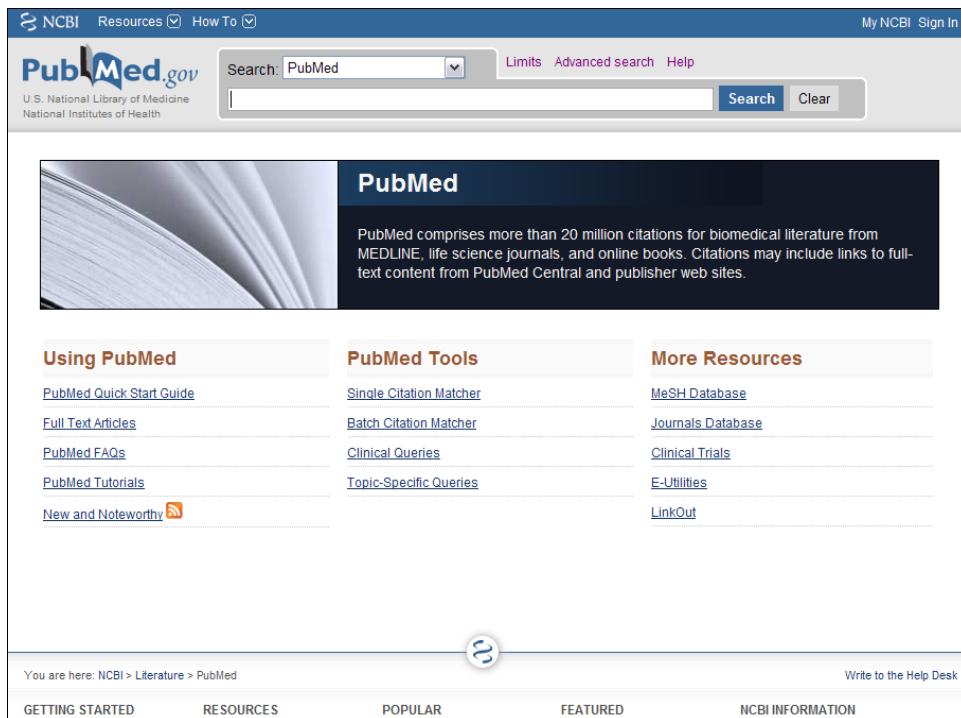
Exercise 9: What is an institutional review board (IRB) and protocol?

Suggested Solution:

- Click **Glossary** at the top of the page
- Scroll to **Institutional Review Board (IRB)**
- Review information
- Scroll to **Protocol**
- Review information

6

MEDLINE/PubMed



The screenshot shows the PubMed homepage. At the top, there is a navigation bar with links for NCBI Resources and How To. The main search bar is labeled "Search: PubMed". Below the search bar, there is a large image of an open book and a section titled "PubMed" with a brief description of the database. The "Using PubMed" section contains links to Quick Start Guide, Full Text Articles, PubMed FAQs, PubMed Tutorials, and New and Noteworthy. The "PubMed Tools" section includes links to Single Citation Matcher, Batch Citation Matcher, Clinical Queries, and Topic-Specific Queries. The "More Resources" section lists MeSH Database, Journals Database, Clinical Trials, E-Utilities, and LinkOut. At the bottom, there is a footer with links for Getting Started, Resources, Popular, Featured, and NCBI Information, along with a "pubmed.gov" logo.

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. PubMed provides free access to **MEDLINE**, NLM's premier bibliographic database containing citations and author abstracts from over 5,400 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 Web sites and links to molecular biology resources. The scope of PubMed includes such diverse topics as microbiology, delivery of health care, nutrition, pharmacology, and environmental health.

Search Bar

The screenshot shows the PubMed homepage with the following sections labeled:

- NCBI Header:** Located at the top right, it includes links for "My NCBI" and "Sign In".
- Search Bar:** Located at the top left, it includes a database selection dropdown set to "PubMed", a search input field, and "Search" and "Clear" buttons.
- Tools & Resources:** A vertical column on the right side containing links to "MeSH Database", "Journals Database", "Clinical Trials", "E-Utilities", and "LinkOut".
- Links to NCBI resources:** A vertical column on the right side containing links to "About NCBI", "Research at NCBI", "NCBI Newsletter", and "NCBI FTP Site".
- Using PubMed:** Includes links to "PubMed Quick Start Guide", "Full Text Articles", "PubMed FAQs", "PubMed Tutorials", and "New and Noteworthy" (RSS feed).
- PubMed Tools:** Includes links to "Single Citation Matcher", "Batch Citation Matcher", "Clinical Queries", and "Topic-Specific Queries".
- More Resources:** Includes links to "MeSH Database", "Journals Database", "Clinical Trials", "E-Utilities", and "LinkOut".
- Footer:** Includes a "Write to the Help Desk" link and a "You are here: NCBI > Literature > PubMed" breadcrumb.

pubmed.gov

PubMed Homepage

The PubMed homepage includes a NCBI Header, Search Bar, and Footer that are common to all PubMed pages. The **NCBI Header** includes a 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**. Additional Search bar selections, RSS, and Save search, display after running a PubMed search. Popular tools and resources are under **PubMed Tools** (e.g., the Single Citation Matcher, Clinical Queries, and Topic-Specific Queries)

and **More Resources** (e.g., MeSH Database, Journals Database, and Clinical Trials). The **Footer** includes links to many NCBI resources.

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.

Limits

Refine and focus your search with the **Limits** option located above the search box. Checkboxes may be selected for Type of Article, Language, Subsets of journals or topics, Ages, Humans or Animals, Gender, and Dates. Restrict a search to items with links to full text, and make multiple choices within categories. A “Limits Activated” message will appear above the search results list. Limits remain in effect until removed.

Limits

Dates

Published in the Last:

Languages

English
 French
 German
 Italian
 Japanese

Type of Article

Clinical Trial
 Editorial
 Letter
 Meta-Analysis
 Practice Guideline

Species

Humans
 Animals

Subsets

Journal Groups

Core clinical journals
 Dental journals
 Nursing journals

Gender

Male
 Female

Text Options

Links to full text
 Links to free full text
 Abstracts

Ages

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

Search Field Tags

Field:

Advanced Search

The Advanced Search link provides three options to refine and focus a search: **Search Builder**, **Search History**, and **More Resources**. Search Builder allows creation of a search using Boolean operators. Using the All Fields selection will run search terms through the Automatic Term Mapping process, or a specific field may be selected to apply to the term. Search History tracks search statements and numbers them as links. Clicking on the numbered link provides a menu allowing search statements to be combined into a new search with the AND, OR or NOT boolean operators, or to be run, deleted, examined in Details, or saved in My NCBI. More Resources provides links to the MeSH and Journals databases, Single citation Matcher, Clinical Queries, and Topic-Specific Queries.

The screenshot shows the PubMed Advanced Search interface. At the top is a header with the title "PubMed Advanced Search" and a "Back to PubMed" link. Below the header are four main sections: "Search Box", "Search Builder", "Search History", and "More Resources". The "Search Box" section contains a search input field, "Limits", "Details", and "Help" buttons, and "Search", "Preview", and "Clear" buttons. The "Search Builder" section contains an "All Fields" dropdown, an "AND" dropdown, and an "Add to Search Box" button. The "Search History" section and "More Resources" section are also visible.

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 the following:

- ▶ Links to related articles for all citations—click the Related Citations 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

NLM's Loansome Doc is an automated document ordering program that allows PubMed users to order the full text of an article from a participating library. Before an order can be placed, and before a user can register, all Loansome Doc users must first establish an agreement with a library that uses DOCLINE® (NLM's automated interlibrary loan request and referral system). Users who are unsure about which library to contact may obtain assistance from the Regional Medical Library (RML) in their area by calling 1-800-338-7657, Monday-Friday, 8:30 AM - 5:00 PM in all time zones. To register with Loansome Doc go to <https://docline.gov/loansome/login.cfm>. During the online registration process, you will create a user account with your name, address, e-mail, and ordering preference.

From PubMed registered Loansome Doc users can access Loansome Doc by performing a search, clicking the check box to the left of the articles they want to order, and selecting **Send to Order** from the pull down menu.

Additional Resources

For further information, we recommend these additional resources:

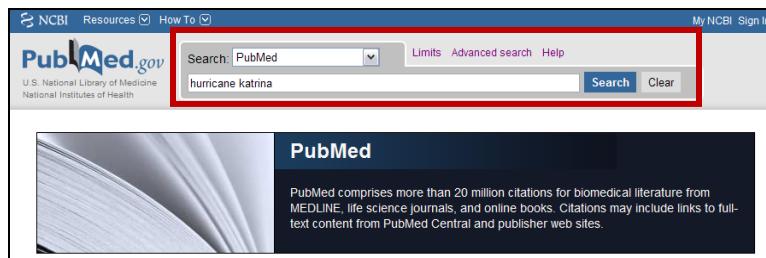
- ▶ PubMed Help (an online Help book)
ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.chapter.pubmedhelp
- ▶ PubMed Quick Tour: Simple Subject Search
nlm.nih.gov/bsd/viewlet/search/subject/subject.html
- ▶ PubMed Quick Tour: Search for an Author
nlm.nih.gov/bsd/viewlet/search/author/author.html
- ▶ CAM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

MEDLINE/PubMed Search Exercises

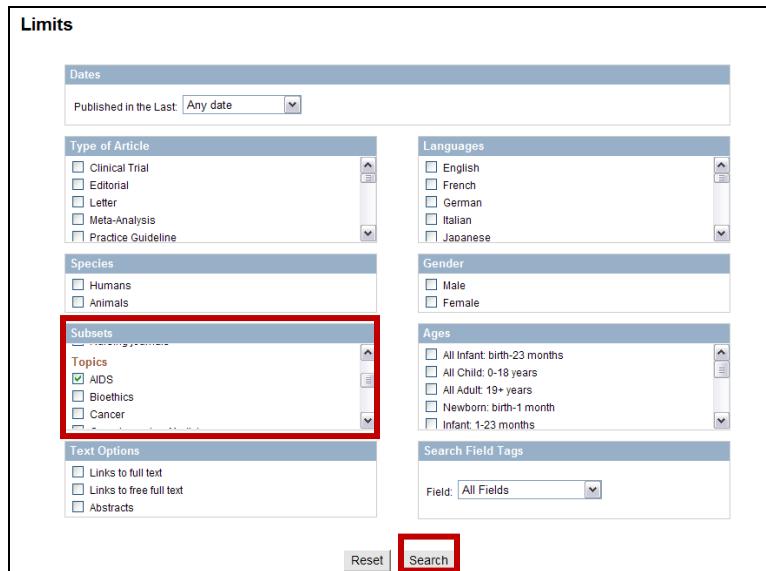
Search Example: What information has been written about the effects of Hurricane Katrina on people living with HIV/AIDS?

Suggested Solution:

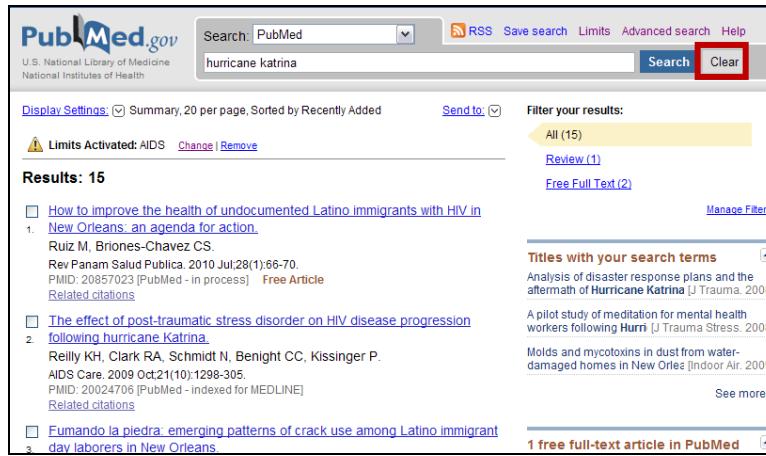
- ▶ Go to pubmed.gov
- ▶ Type **hurricane katrina** in the search box
- ▶ Click **Limits**



- ▶ Select AIDS in the **Subsets** limit box
- ▶ Click **Search**



- ▶ Review the citation(s) retrieved
- ▶ Click the **Clear** button in the bar above the search results box to prepare for the next search



Search Exercises

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

Suggested Solution:

Click	Limits
Type	h1n1 in the search box
Select	<u>AIDS</u> in the Subsets limit box under Topics
Click	Search button
Review	the citation(s) retrieved

 When limits are selected a **Limits Activated** portlet will display on the results page.

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

Suggested Solution:

Type	entecavir coinfected 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	Search button
Review	citation(s) retrieved

Exercise 3: Locate articles that discuss whether people infected with herpes simplex virus type 2 (HSV-2) can reduce their risk of becoming infected with HIV by using *Acyclovir*. Review related citations.

Suggested Solution:

Type	HSV-2 acyclovir HIV transmission in the search box
Click	Search button
Review	the citation(s) retrieved and Related Citations

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

Suggested Solution:

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

Click	Apply button
Review	the citation(s) retrieved

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:

Click	Limits
Type	zidovudine mother child transmission in the search box
Select	<u>5 years</u> from the Published in the Last: pull-down menu
Select	<u>English</u> in the Languages box
Click	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:

Click	Limits
Type	cytomegalovirus retinitis foscarnet ganciclovir in the search box
	 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	<u>5 years</u> in the Published in the Last: box
Clear	<u>English</u> in the Languages box
Select	<u>All Child: 0-18 years</u> 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:

Click	Advanced Search
Click	Remove Limits
Type	stigma in the search box
Select	Author from the Search Builder drop-down menu

Type	bogart lm in the Author search box
Click	Add to Search Box button
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:

Click	Limits
Type	cultural competency in the search box
Select	<u>AIDS</u> in the Subsets limit box under Topics
Click	the Search button
Click	the checkbox to the left of a record of your choice
Select	<u>E-mail</u> from the “Send to” pull-down menu
Select	<u>Abstract (text)</u> from the “Format” pull-down menu
Type	your e-mail address in the e-mail box
Click	the E-mail button
	 An e-mail confirmation message will be 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	<u>PMC</u> 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	<u>PubMed Central</u> at the bottom of the homepage under Popular
Type	improved adherence haart in the search box
Click	Search all articles under the search box
Click	Search button
Review	the citation(s) and return to the PubMed homepage

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 PubMed page
Click	<u>Register for an account</u>
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	<u>Save Search</u> at the top of the screen above the search box
Click	the Save button
Select	the e-mail update scheduling settings of your choice (optional)
Click	<u>Save</u>
	 A saved search confirmation message will be highlighted in green above the abstracts

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

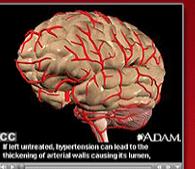
A service of the U.S. National Library of Medicine
NIH National Institutes of Health

[About MedlinePlus](#) [Site Map](#) [FAQs](#) [Contact Us](#) [ESPAÑOL](#)

1
2
3
4
5

Our Anatomy Videos are worth a thousand words.

Visit the page to see how your body works.



CC #1 untreated, hypertension can lead to the thickening of arterial walls causing RLS lesions.
#ADAM

[→ Health Topics](#) [→ Drugs & Supplements](#) [→ Videos & Cool Tools](#)

 **MEDICAL DICTIONARY**

POPULAR SEARCHES
[anemia](#) [asthma](#)
[cancer](#) [copd](#) [depression](#)
[diabetes](#)

About Your Health
[General](#) [Seniors](#) [Men](#) [Women](#) [Children](#)

[Back Pain](#)
[COPD \(Chronic Obstructive Pulmonary Disease\)](#)
[Depression](#)
[Diabetes](#)
[Exercise and Physical Fitness](#)
[Heart Diseases](#)

 **Health News**
01 OCT
[9% of U.S. Adults Suffer from Depression](#)
[Kidney Disease Linked to Future Heart Disease, Stroke Risk](#)
[Lifestyle Intervention Improves Risk Factors in Type 2 Diabetes](#)
[more health news](#)

medlineplus.gov

MedlinePlus

MedlinePlus is the National Library of Medicine's answer to consumer friendly, authoritative health information. It contains health information especially written for consumers and patients by the National Institutes of Health and other trusted sources. MedlinePlus contains information on over 800 health topics, 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 of the MedlinePlus homepage is annotated with several red boxes and arrows pointing to specific features:

- Spanish Version**: Points to the "ESPAÑOL" button in the top right corner.
- Frequently Visited Health Topic Pages**: Points to the "MEDICAL DICTIONARY" and "POPULAR SEARCHES" sections.
- Displays Current Topics and News Features**: Points to the "Our Anatomy Videos are worth a thousand words." section.
- Tutorials, Calculators, Quizzes, and Games**: Points to the "Videos & Cool Tools" section.
- Free Quarterly Magazine**: Points to the "MAGAZINE" and "EASY TO READ" buttons.

The page includes the following sections:

- Header:** MedlinePlus logo, Trusted Health Information for You, A service of the U.S. National Library of Medicine NIH National Institutes of Health.
- Top Navigation:** About MedlinePlus, Site Map, FAQs, Contact Us, ESPAÑOL, Search MedlinePlus, GO.
- Hero Section:** Our Anatomy Videos are worth a thousand words. Visit the page to see how your body works. Includes a 3D brain image and a caption: "CC If left untreated, hypertension can lead to the thickening of arterial walls causing its lumen to narrow." (ADAM).
- Navigation Buttons:** → Health Topics, → Drugs & Supplements, → Videos & Cool Tools.
- Medical Dictionary:** Merriam-Webster logo, MEDICAL DICTIONARY, GO.
- Popular Searches:** anemia, asthma, cancer, copd, depression, diabetes, fibromyalgia, gout, hypertension, lupus, mrsa, osteoarthritis, shingles, stroke, vitamin d.
- About Your Health:** General, Seniors, Men, Women, Children. Includes links to Back Pain, COPD (Chronic Obstructive Pulmonary Disease), Depression, Diabetes, Exercise and Physical Fitness, Heart Diseases, High Blood Pressure, Pregnancy, Skin Conditions, Weight Control.
- Health News:** 01 OCT, Health News. 9% of U.S. Adults Suffer from Depression, Kidney Disease Linked to Future Heart Disease, Stroke Risk, Lifestyle Intervention Improves Risk Factors in Type 2 Diabetes, more health news.
- NIHSeniorHealth:** Visit NIHSeniorHealth.gov - Easy-to-Use Health and Wellness Information for Older Adults. Includes a photo of an older couple.
- Stay Connected:** Enter email address, GO.
- Bottom Buttons:** MAGAZINE, EASY TO READ, MULTIPLE LANGUAGES.

medlineplus.gov

Features

Features offered by MedlinePlus include:

- ▶ Easy-to-read language
- ▶ Easy-to-navigate pages

- ▶ New links added daily
- ▶ No advertising or endorsements
- ▶ Spanish version: medlineplus.gov/spanish

Searching MedlinePlus

To search MedlinePlus, type a word or phrase into the search box. Your initial search results show matches from all of the MedlinePlus content areas. The default display for MedlinePlus searches is a comprehensive list of **All Results**. The links in the **Refine by Type** box represent sets of MedlinePlus content areas, known as collections. The collections help you narrow your search by displaying results exclusively from one collection. The **Refine by Keyword** box organizes your search results into groups based on the most frequent words in the top 200 results

MedlinePlus
Trusted Health Information for You

A service of the U.S. National Library of Medicine
NIH National Institutes of Health

Search MedlinePlus

Home About MedlinePlus Site Map FAQs Contact Us

Health Topics Drugs & Supplements Videos & Cool Tools ESPAÑOL

Refine by Type

All Results (5,002)

- [Health Topics \(175\)](#)
- [External Health Links \(3,948\)](#)
- [Drugs and Supplements \(453\)](#)
- [Medical Encyclopedia \(436\)](#)
- [Videos and Tutorials \(128\)](#)
- [News \(157\)](#)
- [MedlinePlus Magazine \(127\)](#)
- [Other Resources \(77\)](#)

Diabetes

Diabetes is a disease in which your blood glucose, or sugar, levels are too high. Glucose comes from the foods you eat. Insulin is a hormone that helps the glucose get into your cells to give them energy. With Type 1 diabetes, your body does not make insulin. With Type 2 diabetes, the more common type, your body does not make or use insulin well. Without enough insulin, the glucose stays in your blood.

Over time, having too much glucose in your blood can cause serious problems. It can damage your eyes, kidneys, and nerves. Diabetes can also cause heart disease, stroke and even the need to remove a limb. Pregnant women can also get diabetes, called gestational diabetes. [\(Read more\)](#)

Search Help

Browsing MedlinePlus

Health Topics can be browsed alphabetically, by body location and symptoms, disorders and conditions and demographic groups. Read about symptoms, causes, treatment and prevention for diseases, illnesses, health conditions and wellness issues. **Drugs & Supplements** can be browsed alphabetically by brand or generic names. Learn about your prescription drugs and over-the-counter medicines, including side effects, dosage, special precautions, and more. Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions. **Videos and Cool Tools** contains an alphabetical list of multimedia health resources, including calculators, quizzes, games, interactive tutorials, and anatomy and surgery videos.

Health Topics Drugs & Supplements Videos & Cool Tools ESPAÑOL

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 List of All Topics

Health Topics

Read about symptoms, causes, treatment and prevention for over 800 diseases, illnesses, health conditions and wellness issues. MedlinePlus health topics are regularly reviewed, and links are updated daily.

Body Location/Systems

- [Blood, Heart and Circulation](#)
- [Bones, Joints and Muscles](#)
- [Brain and Nerves](#)
- [Digestive System](#)
- [Ear, Nose and Throat](#)

Disorders and Conditions

- [Cancers](#)
- [Diabetes Mellitus](#)
- [Genetics/Birth Defects](#)
- [Infections](#)
- [Injuries and Wounds](#)
- [Mental Health and Behavior](#)

Demographic Groups

- [Children and Teenagers](#)
- [Men](#)
- [Population Groups](#)
- [Seniors](#)
- [Women](#)

Staying Connected



Mobile Version

Mobile MedlinePlus provides authoritative health information for mobile Internet users. It includes a subset of content from the full Web site. It includes summaries for over 800 diseases, conditions and wellness topics as well as the latest health news, an illustrated medical encyclopedia, and information on prescription and over-the-counter medications. The mobile version is available at m.medlineplus.gov.



GET E-mail Updates

E-mail announcements contain links to new topics and sites on MedlinePlus along with other notices. You can sign up to receive general emails covering all health topics, or you can sign up to receive emails about specific topics.



Subscribe to RSS

Really Simple Syndication (RSS) provides notification when new content, press announcements and health news articles are published on MedlinePlus, without cluttering your inbox with e-mail messages.



Follow us on Twitter

Twitter provides MedlinePlus users with short, timely, and instantly updated health news and information. Join and follow at twitter.com/medlineplus4you .

Additional Resources

For further information, we recommend these additional resources:

- ▶ MedlinePlus Frequently Asked Questions
nlm.nih.gov/medlineplus/faq/faq.html
- ▶ Evaluating Internet Health Information: A Tutorial from the National Library of Medicine
nlm.nih.gov/medlineplus/webeval/webeval.html
- ▶ Guide to Healthy Web Surfing
nlm.nih.gov/medlineplus/spanish/tutorial.html
- ▶ Information for Librarians and Trainers
nlm.nih.gov/medlineplus/training/trainers.html

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 over 20 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: Using the alphabetical list of health topics, review the MedlinePlus AIDS page and locate general information about HIV/AIDS.

Suggested Solution:

- ▶ Go to medlineplus.gov
- ▶ Click **Health Topics**

A service of the U.S. National Library of Medicine
NIH National Institutes of Health

About MedlinePlus Site Map FAQ Contact Us ESPAÑOL Search MedlinePlus

Anemia Tachycardia Hypothyroid Electrocardiology Dyspnea
Hypertension Neuropathy Osteoporosis Arthritis Diverticulitis
Colonoscopy Pneumonitis Osteopenia Rhinitis

Want to understand what your doctor is saying?
Check out our tutorial on Understanding Medical Words.

→ Health Topics → Drugs & Supplements → Videos & Cool Tools

- ▶ Click **A** under **Find your topic by letter**

A service of the U.S. National Library of Medicine
NIH National Institutes of Health

Home About MedlinePlus Site Map FAQ Contact Us Search MedlinePlus

Health Topics Drugs & Supplements Videos & Cool Tools ESPAÑOL

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

Health Topics

- ▶ Click **AIDS** from the alphabetical list of topics

Aging Skin see [Skin Aging](#)
Agoraphobia see [Phobias](#)

AIDS

[AIDS and Infections](#)
[AIDS and Pregnancy](#)

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

Start Here

- HIV/AIDS NIH** (National Institute of Allergy and Infectious Diseases)
- [HIV/AIDS Information](#) (includes Interactive Material, even for children, infections)
- [Also available in Spanish](#)
- [JAMA Patient Page: HIV Infections: The Basics](#) (American Medical Association) - PDF
- [Also available in Spanish](#)

Basics Learn More Multimedia & Cool Tools

Related Topics

[AIDS and Infections](#)
[AIDS and Pregnancy](#)
[AIDS Medicines](#)
[AIDS-Linking with AIDS](#)
[Kaposi's Sarcoma](#)
[Immune System](#)
[Infections](#)

- ▶ Review the information and close the NIH window

National Institute of Allergy and Infectious Diseases
Leading research to understand, treat, and prevent infectious, immunologic, and allergic diseases.

NIAID Home Health & Research A to Z Labs & Scientific Resources Funding About NIAID News & Events

NIAID > Topics > HIV/AIDS > Understanding

HIV/AIDS

- Understanding
- Quick Facts
- What are HIV and AIDS?
- How HIV Causes AIDS
- Biology of HIV
- HIV Risk Factors
- Symptoms
- Testing and Diagnosis
- Treatment
- Prevention
- Publications

HIV/AIDS

AIDS was first reported in the United States in 1981 and has since become a major worldwide epidemic. AIDS is caused by the human immunodeficiency virus, or HIV. By killing or damaging cells of the body's immune system, HIV progressively destroys the body's ability to fight infections and certain cancers. People diagnosed with AIDS may get life-threatening diseases called opportunistic infections. These infections are caused by microbes such as viruses or bacteria that usually do not make healthy people sick.

Since 1981, more than 980,000 cases of AIDS have been reported in the United States to the Centers for Disease Control and Prevention (CDC). According to CDC, more than 1,000,000 Americans may be infected with HIV, one-quarter of whom are unaware of their infection. The epidemic is growing most rapidly among minority populations and is a leading killer of African-American males ages 25 to 44. According to CDC, AIDS affects nearly seven times more African Americans and three times more Hispanics than whites. In recent years, an increasing number of African-American women and children are being affected by HIV/AIDS.

Web Site Tools

- E-mail this page
- Print this page
- Get e-mail updates
- Follow
- Order publications
- Bookmark & share

Research Feature

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



Search Exercises: Health Topics

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

Suggested Solution:

Go to	http://medlineplus.gov
Type	diabetes complications in the <u>Search MedlinePlus</u> query box
Click	Go button
Click	a topic of interest to you
Review	the information retrieved and return to the MedlinePlus results page

Exercise 2: Using the alphabetical list of health topics, search for information on H1N1 Flu (Swine Flu). Review the Health Check Tools.

Suggested Solution:

Click	Health Topics tab
Click	H under <u>Find your topic by letter</u>
Click	H1N1 (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 alphabetical list of health topics, locate information on factors to consider before using an alternative medicine therapy.

Suggested Solution:

Click	Health Topics tab
Click	A under <u>Find your topic by letter</u>
Click	<u>Alternative Medicine</u> from the alphabetical list

Click	<u>Be an Informed Consumer</u> 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, review the MedlinePlus magazine HIV/AIDS articles.

Suggested Solution:

Click	Health Topics tab
Click	<u>A</u> under Find your topic by letter
Click	<u>AIDS</u> from the alphabetical list
Click	<u>Children</u> under For You
Click	<u>Children and HIV</u> (New Mexico AIDS Education and Training Center) under Children
Review	the information
Close	the AIDS InfoNet window and return to the MedlinePlus page
Click	MedlinePlus Magazine under For You
Review	an article(s) of your choice
Click	your browser's Back button to return to the AIDS page

Exercise 5: Find health information for diverse population groups.

Suggested Solution:

Click	Health Topics tab
Click	<u>Population Groups</u> under Demographic Groups
Click	the population group of your choice from the alphabetical list
Review	the information retrieved

Search Exercises: Drugs & Supplements

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	Drugs & Supplements tab
Click	<u>B</u> under Browse by generic or brand name

- Click [Buprenorphine Sublingual and Buprenorphine and Naloxone Sublingual](#)
- 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, Ginkgo, St. John's Wort, and Yohimbe bark extract. Can these supplements interfere with prescribed medications? What is the scientific evidence for use of these drugs?

Suggested Solution:

- Click **Drugs & Supplements** tab
- Click **All herbs and supplements**
- Click [Echinacea](#) in the alphabetical list
- Click [Interactions](#) and review the information retrieved
- Click [Return to top](#)
- Click [Evidence](#) and review the information retrieved
- Click [Return to top](#)

 Repeat these steps for: Ginseng, Ginkgo, St. Johns Wort, and Yohimbe bark extract

Exercise 8: E-mail the AIDS Medicines page to a client or colleague. Also register to receive AIDS Medication updates by e-mail (optional).

Suggested Solution:

- Click **Drugs & Supplements** tab
- Click **AIDS Medicine** to the right under **Related Topics**
- Review the content on the page
- Click the [Email icon](#) at the top right of the page and follow the onscreen instructions
- Close the pop-up window and return to the AIDS Medicine page
- Type your e-mail address in the **Get AIDS Medicines updates by e-mail** query box
- Click the **Go** button and follow the onscreen directions

Search Exercises: Videos & Cool Tools

Exercise 9: My doctor has ordered a bronchoscopy to determine if I have pneumocystis carinii pneumonia (PCP). What does this procedure involve? View the bronchoscopy interactive tutorial.

Suggested Solution:

Click	Videos & Cool Tools tab
Click	<u>Interactive Tutorials</u>
Click	<u>Bronchoscopy</u> under Tests and Diagnostic Procedures
Click	the <u>Start Interactive Tutorial</u> button and follow the instructions
Close	the tutorial window and return to the <u>Interactive Tutorial</u> page

Exercise 10: Is there a simple way to explain the body's immune response to HIV and other diseases?

Suggested Solution:

Click	Videos & Cool Tools tab
Click	the Anatomy Videos tab
Click	<u>Immune Response</u> from the alphabetical listing and follow the onscreen instructions
	This video plays in QuickTime format. If you do not have QuickTime, you will be prompted to obtain a free download of the software before you view the video.
Click	<u>Immune System and Disorders</u> to the right of the page under Related MedlinePlus Page
Click	<u>Games</u> under Multimedia and Cool Tools
Click	<u>Play the Immune System Defender Game</u> (Nobel Foundation)
Close	the pop-up window and return to the <u>Immune System and Disorders</u> page

Exercise 11: My partner has been scheduled for coronary artery bypass surgery. Are there multimedia resources that demonstrate the procedure and explain what to expect during and after the procedure?

Suggested Solution:

Click	Videos & Cool Tools tab
Type	coronary artery bypass in the <u>Search all Videos & Tutorials</u> search box at the bottom of the page under View latest news
Click	the <u>Go</u> button

Click	a video or tutorial of your choice and follow the onscreen instructions
	The videos open in a second window. If you have a pop-up blocker, you will need to disable it to view the programs
Close	the pop-up window and return to the results page

Exercise 12: I have a family history of Type 2 Diabetes. Is there a way for me to assess my risk of developing the disease?

Suggested Solution:

Click	Videos & Cool Tools tab
Click	All calculators and quizzes to the right under Calculators & Quizzes
Click	<u>D</u> in the alphabetical listing
Click	<u>Diabetes Risk Questionnaire</u> (Siteman Cancer Center) under Diabetes and follow the onscreen instructions
	The quizzes open in a second window. If you have a pop-up blocker, you will need to disable it to view the programs
Close	the pop-up window and return to the Health Check Tools page

Exercise 13: Using the Medical Encyclopedia, locate an illustration depicting Kaposi's sarcoma.

Suggested Solution:

Click	Medical Encyclopedia at the bottom of the home page
Click	K under Browse by first letter of topic
Click	<u>Kaposi's sarcoma</u> from the alphabetical list
Click	the graphic of your choice under Images
Review	the information retrieved

Exercise 14: Locate health information on a topic of your choice.

The NLM Gateway



The screenshot shows the homepage of the NLM Gateway. The top navigation bar includes links for Home, Term Finder, Limits/Settings, About, Help, and FAQ. The main search area features a search input field, a 'Search' button, and a 'Clear' button. Below the search area, there are tips for searching: 'Enter your search in the box above.' and 'Tips for searching by [topics](#), [authors](#), [titles](#) or searching [meeting abstracts](#)'. The footer contains 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.

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.



Search multiple NLM resources. Learn [more](#).

- Enter your search in the box above.
- Tips for searching by [topics](#), [authors](#), [titles](#) or searching [meeting abstracts](#).

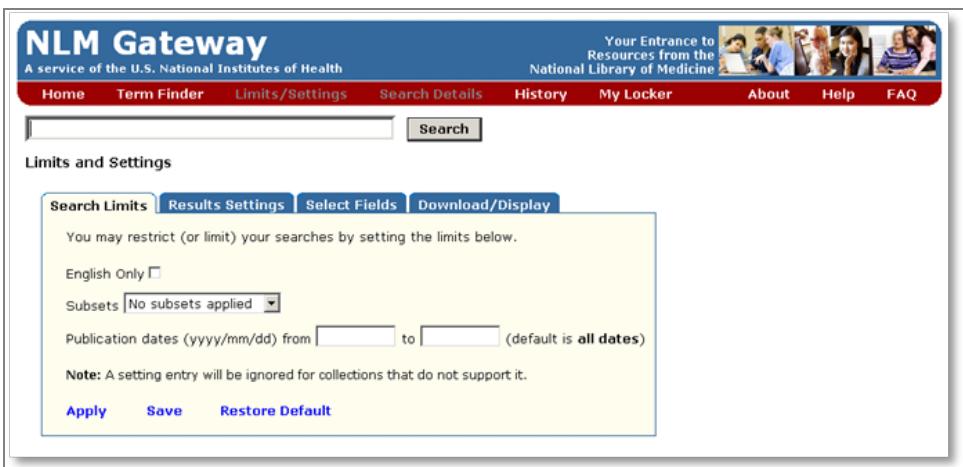
[Contact Us](#)
[U.S. National Library of Medicine](#) | [National Institutes of Health](#) | [Health & Human Services](#)
[Privacy](#) | [Copyright](#) | [Accessibility](#) | [Freedom of Information Act](#) | [USA.gov](#)

gateway.nlm.nih.gov

Searching NLM Gateway

For a quick search, type your search term or phrase into the search box on the homepage. 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 homepage. Type your search term(s) into the search box and apply limits. Available search limits are **English Only**, **Subsets**, and **Publication dates**.



Search Limits Results Settings Select Fields Download/Display

You may restrict (or limit) your searches by setting the limits below.

English Only

Subsets

Publication dates (yyyy/mm/dd) from to (default is **all dates**)

Note: A setting entry will be ignored for collections that do not support it.

Apply **Save** **Restore Default**

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

- ▶ **Bibliographic Resources** include MEDLINE/PubMed, NLM Catalog, Bookshelf, TOXLINE® subset, Developmental and Reproductive Toxicology (DART®), and Meeting Abstracts.
- ▶ **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 (OMIM), 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.

Results Summary: 169739 records found		
Bibliographic Resources	Consumer Health Resources	Other Information Resources
90165 MEDLINE/PubMed - journal citations, abstracts 6830 NLM Catalog - books, AVs, serials 2035 Bookshelf - full text biomedical books 5127 TOXLINE Subset - toxicology citations 122 DART - Developmental and Reproductive Toxicology 59971 Meeting Abstracts	35 MedlinePlus - Health Topics 95 MedlinePlus - Drug Information 49 MedlinePlus - Medical Encyclopedia 33 MedlinePlus - Current Health News 40 MedlinePlus - Other Resources 3992 ClinicalTrials.gov 367 DIRLINE - Directory of Health Organizations	353 Images from the History of Medicine 255 HSRProj - Health Services Research Projects 50 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

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 My Locker. Registration is free.

Additional Resources

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



NLM Gateway Search Exercises

Search Example: Locate information on HIV/AIDS treatment.

Suggested Solution:

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

The screenshot shows the NLM Gateway homepage with a search bar containing 'hiv aids treatment'. Below the search bar, there are two bullet points: '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 with a 'Results Summary: 85825 records found' message. The results are categorized into three sections: 'Bibliographic Resources', 'Consumer Health Resources', and 'Other Information Resources'. The 'Other Information Resources' section includes a link to 'HSRProj - Health Services Research Projects'.

- ▶ Review the record(s) of your choice
- ▶ Click the **Results** in the left sidebar to return to the search results page
- ▶ Click the **Clear** tab to prepare for a new search

The screenshot shows the 'HSRProj Results' page with 169 items. The results list includes titles such as 'Pentecostalism and utilization of HIV/AIDS treatment services in central Mozambique', 'The impact of the BRIDGE program upon treatment engagement among HIV+ adults', 'Preventing HIV/AIDS in treatment-resistant drug-abusing youth', 'Collaborative HIV/AIDS prevention and mental health treatment project', and 'Seek and treat for optimal outcomes and prevention in HIV & AIDS in IDU'.

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 **Limits/Setting** button
- Select AIDS from the subset pull-down menu and click **Apply**
- Click **Search** button
- Click **MEDLINE/PubMed** under **Bibliographic Resources**
- Review citation(s) of your choice
- Click **Results** button to the left of the page to return to the results summary page
- Click [ClinicalTrials.gov](#) under **Consumer Health Resources**
- Review record(s) of your choice and close the ClinicalTrials.gov window
- Click **Clear** tab to prepare for a new search

Exercise 2: Locate information on crystal methamphetamine use among men who have sex with men (MSM).

Suggested Solution:

- Type **crystal methamphetamine men sex men** 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 **Search** button
- Review record(s) of your choice
- Click **Clear** tab to prepare for a new search

Exercise 3: Locate meeting abstracts from the 2006 International Conference on AIDS. Limit the search to the AIDS subset.

Suggested Solution:

- Type **International Conference on AIDS [CN] AND 2006 [DP]** in the search box
 -  To search for abstracts from a professional conference, enter the conference name followed by the field qualifier [CN]. You may choose to limit your search to a specific year by using the qualifier [DP]

Click	Search button
Review	record(s) of your choice
Click	Clear tab to prepare for a new search

Exercise 4: 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	My Locker button at the top of the page
Click	Create one now and follow the on-screen instructions for setting up a user name and password
Type	structured antiretroviral therapy interruption in the search box
Click	Search button
Click	<u>Meeting Abstracts</u> under Bibliographic Resources
Click	the box next to the record of your choice
Click	<u>Put in locker</u> at the top of the page

Exercise 5: Perform a search on a health topic of your choice.

This page is intentionally blank.

DIRLINE

 United States
National Library of Medicine
National Institutes of Health

Search NLM Web Site **Go**

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

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

 **Get the App**

Other NLM Resources
MedlinePlus®
PubMed
NLM Gateway
LocatorPlus

Support Pages

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.

Directory of Health Organizations
SIS Specialized Information Services

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

[SIS Home](#) >

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Get the App

Other NLM Resources

MedlinePlus®
PubMed
NLM Gateway
LocatorPlus

Support Pages

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

Health Related Organizations with Toll-free Phone Service

Alphabetical List of Health Organizations

DIRLINE contains over 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 homepage to browse for a health organization:



The screenshot shows the DIRLINE homepage with a blue header bar. The header contains the text 'Directory of Health Organizations' and 'SIS Specialized Information Services'. Below the header, there is a navigation bar with links for 'DIRLINE PDA Access', 'SIS Home', 'About Us', 'Site Map & Search', and 'Contact Us'. A breadcrumb trail 'Dirline Home >' is also present. The main content area is titled 'A to Z List of Health Organizations' and features a horizontal menu with letters A through Z, with '0-9' at the end. Below the menu, a list of organizations is provided, starting with AACC International, AARP, and Aarskog Syndrome Parents Support Group.

Organization
AACC International
AARP
Aarskog Syndrome Parents Support Group
ABC Quilts
Abiding Hearts
Abilities!

Additional Resources

For further information, we recommend these additional resources:

- ▶ **DIRLINE Fact Sheets**
nlm.nih.gov/pubs/factsheets/dirlinfs.html
sis.nlm.nih.gov/pdf/dirline_factsheet.pdf
- ▶ **Prescription for Success: Consumer Health Information on the Internet**
(National Network of Libraries of Medicine)
nnlm.gov/training/consumer/prescription



DIRLINE Search Exercises

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

Suggested Solution:

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

The screenshot shows the 'Directory of Health Organizations' search results for 'hiv aids'. The search bar contains 'hiv aids'. The results list the following organizations:

- 1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
- 2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme

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

The screenshot shows the 'DIRLINE Search Results' page for 'hiv aids'. The results list the following organizations:

- 1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
- 2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme

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

The screenshot shows the 'DIRLINE' search results page for 'hiv aids'. The results list the following organizations:

- 1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
- 2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme

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

The screenshot shows the 'DIRLINE Search Results' page for 'hiv aids'. The results list the following organizations:

- 1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
- 2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme
- 3 HIV/AIDS Surveillance Report - Divisions of HIV/AIDS Prevention - National Center for HIV/AIDS, Viral Hepatitis, STD and TB Prevention - Centers for Disease Control and Prevention - Public Health Service - U.S. Department of Health and Human Services
- 4 HIV/AIDS Ministry Network - General Board of Global Ministries/Health and

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 herpes infection?

Suggested Solution:

Type	herpes 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: Locate organizations that provide information on diet and nutrition.

Suggested Solution:

Type	diet nutrition 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 <u>Only organizations with services for the hearing impaired</u> 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.



NATIONAL MINORITY AIDS COUNCIL
Building Healthier Communities

Building Leadership in Communities of Color to Address HIV/AIDS

ABOUT/CONTACT CONFERENCES PROGRAMS & TRAINING PUBLIC POLICY MEDIA PUBLICATIONS CBO TOOLS JOBS MEMBERSHIP

2010 HIV Prevention Leadership Summit December 12-15
2010 USCA Wrap Up

DONATE TODAY [GO](#)

SIGN UP FOR NMAC'S FREE E-ALERTS [GO](#)

NMAC HEADLINES

2010 HIV Prevention Leadership Summit (HPLS) [read more](#)

Time for a CURE AIDS Policy Project

In his most recent musings, "Time for a Cure?" Paul Kawata discusses the importance of remaining focused on finding a cure for HIV - and the issues that this work raises. Offer your insight through by completing an online survey today! Responses are due October 8th.

CLICK HERE TO ENTER NMAC'S LEARNING MANAGEMENT SYSTEM

FOLLOW NMAC

Facebook Twitter YouTube RSS

IMPORTANT DEADLINES

nmac.org

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.



www.oar.nih.gov

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**
cdc.gov/omhd/Topic/HealthDisparities.html
- ▶ **Health Disparities: A Selected Bibliography**
cdc.gov/nccdphp/publications/healthdisparities
- ▶ **Healthy Schools Healthy Youth!**
cdc.gov/healthyyouth

Selected Internet Resources in Health

Agency for Healthcare Research and Quality

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

ama-assn.org

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

BioMed Central

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

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

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

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

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

cnn.com/HEALTH

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

Directory of Open Access Journals

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

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

www.fda.gov

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

Health Care Language Services Implementation Guide

hclsig.thinkculturalhealth.org

Guide to help health care organizations implement effective language access services to meet the needs of their patients with limited English proficiency.

Health Disparities/CDC

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

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

healthhotlines.nlm.nih.gov

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

Healthfinder

healthfinder.gov

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

Healthy People 2010

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

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

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

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

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

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®

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

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

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

nlm.nih.gov/docline/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

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

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

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

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

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

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

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

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

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

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

raconline.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®

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

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

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

aids.gov

AIDS.ORG

aids.org

AIDS Action Committee of Massachusetts

aac.org

AIDS Education Global Information System (AEGIS)

www.aegis.org

AIDS History Project

library.ucsf.edu/collections/archives/manuscripts/aids

AIDS Images Library

aids-images.ch

AIDS Information and Controversy 1985–1995

aidsinfobbs.org

AIDS InfoNet

aidsinfonet.org

AIDS Project Los Angeles

apla.org

AIDS Resource List

specialweb.com/aids

AIDS Treatment Data Network

atdn.org

AIDS Treatment News

thebody.com/content/art31573.html

AIDSinfo

aidsinfo.nih.gov

aidsinfonyc.org

aidsinfonyc.org

Aidsmap

aidsmap.com

All the Virology on the WWW

virology.net/garryfawweb.html

The Alternative Medicine Homepage

pitt.edu/~cbw/altm.html

American Foundation for AIDS Research (amfAR) Global Link

amfar.org/globallink

American Red Cross

redcross.org

Australian Federation of AIDS Organisations

aiao.org.au

The Body

thebody.com

California AIDS Clearinghouse

lagaycenter.org

Canadian AIDS Treatment Information Exchange

catie.ca

Canadian HIV Trials Network

www.hivnet.ubc.ca/e/home/

Center for AIDS Prevention Studies

caps.ucsf.edu

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

cdc.gov/hiv

Center for Mental Health Research on AIDS (CMHRA)

nimh.nih.gov/about/organization/dahbr/center-for-mental-health-research-on-aids/

Critical Path AIDS Project

critpath.org

GMHC on the Web Gay Men's Health Crisis

gmhc.org

Healthfinder.gov

healthfinder.gov

Health Resources and Services Administration (HRSA) HIV/AIDS Program:
Caring for the Underserved
hab.hrsa.gov

Health Services/Technology Assessment Text (HSTAT)
ncbi.nlm.nih.gov/books/bv.fcgi?rid=hstat

HIV Databases
hiv.lanl.gov/

HIV InSite
hivinsite.ucsf.edu

HIV/AIDS Surveillance (U.S. Census Bureau)
www.census.gov/ ipc/www/hivaidsn.html

HIV/AIDS Vaccines
www.niaid.nih.gov

HIVandHepatitis.com
hivandhepatitis.com

HIVdent (dental information)
www.hivdent.org

HIVpositive.com
hivpositive.com

How to Find Reliable HIV/AIDS Treatment Information on the Internet
orise.orau.gov/files/hctt/AIDSTreatment_revAug2009.htm

International AIDS Society
www.iasociety.org

International Association of Physicians in AIDS Care
iapac.org

Johns Hopkins HIV Guide
www.hopkins-aids.edu

Joint United Nations Programme on HIV/AIDS
unaids.org

MedlinePlus AIDS
medlineplus.gov/aids

Medscape HIV/AIDS
medscape.com/hiv

National AIDS Treatment Advocacy Project (NATAP)

natap.org

National Clearinghouse for Alcohol and Drug Information

ncadi.samhsa.gov

National HIV/AIDS Clinicians' Consultation Center (NCCC)

nccc.ucsf.edu

National Institute of Allergy and Infectious Diseases (NIAID)

www.niaid.nih.gov

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

www.oar.nih.gov

National Library of Medicine HIV/AIDS Portal

sis.nlm.nih.gov/hiv.html

National Minority AIDS Council

nmac.org

National Prevention Information Network

cdcnpin.org

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

aidsnyc.org

NIAID Division of Acquired Immunodeficiency Syndrome

www.niaid.nih.gov/about/organization/daids/

Partners in Information Access for the Public Health Workforce—HIV

phpartners.org/hp/hiv.html

Positive.org

positive.org/Home

Project Inform

projinf.org

PubMed

pubmed.gov

PubMed Training Manual (NLM)

nlm.nih.gov/pubs/web_based.html

PubMed Tutorial (NLM)

nlm.nih.gov/bsd/disted/pubmedtutorial/

Rural Center for AIDS/STD Prevention

indiana.edu/~aids

San Francisco AIDS Foundation

sfaf.org

Social Security Administration

ssa.gov

The TB/HIV Research Laboratory at Brown University

research.brown.edu/research/labs.php

U.S. Department of Health and Human Services

aids.gov

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

www.fda.gov/ForConsumers

World Health Organization, Tuberculosis

who.int/tb/en/

Yahoo AIDS/HIV Resources

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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