

EQUAL ACCESS INITIATIVE:

HIV/AIDS

**Information Resources from the
National Library of Medicine**

United States Conference on AIDS
September 18-19, 2008





EQUAL ACCESS INITIATIVE:

HIV/AIDS INFORMATION RESOURCES

FROM THE NATIONAL LIBRARY OF MEDICINE

**A Specialized Training Course
developed for the**

**Grant Recipients of the National Minority AIDS Council
2008 Equal Access Initiative Computer Grants**

**Presented at
United States Conference on AIDS
Fort Lauderdale, Florida
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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.

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Preface

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

The *Equal Access Initiative: HIV/AIDS Information Resources from the National Library of Medicine* training is designed specifically for the **National Minority AIDS Council 2008 Equal Access Initiative (EAI) Computer Grants Program** awardees to provide valuable health information resources from the National Library of Medicine and other reliable sources to increase awareness of the wealth of treatment information and educational materials that are available on the Internet and to improve prevention and treatment education for their clients. These resources will also meet the needs of community-based organizations and AIDS service organizations that need the most accurate and up-to-date information about the management of HIV and AIDS, including clinical trials, HIV/AIDS drugs, treatment guidelines, and medical literature.

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

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



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

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



<http://www.nmac.org>

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



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

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

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Savvy Health Surfing Reference Card(final page)

This is a pull-out card for you to use as a reference.

Introduction

Purpose

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

Objectives

After completing this course, participants will be able to:

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

NLM Online Resources Covered in this Class

The following key resources will be covered in depth with time given for hands-on practice:

- ▶ **AIDSinfo**—a Department of Health and Human Services Web site that provides the latest federally approved information on HIV/AIDS clinical research, treatment and prevention, and medical practice guidelines for consumers and health care providers in English and Spanish
- ▶ **ClinicalTrials.gov**—regularly updated information about federally and privately supported clinical research for a wide range of diseases and conditions, including locations and phone numbers for more details
- ▶ **MEDLINE/PubMed**—access to more than 18 million references to journal articles published in 5,200 journals in the fields of medicine and the life sciences
- ▶ **MedlinePlus**—a consumer health information resource, including full-text documents on over 750 medical topics, information on drugs, a medical encyclopedia, medical dictionaries, and directories of libraries, hospitals, and health care professionals
- ▶ **NLM Gateway**—a Web-based search interface that allows users to search simultaneously in multiple NLM retrieval systems, providing “one-stop searching” for many of NLM's information resources and databases

- ▶ **DIRLINE**—an online directory of more than 8,000 health-related organizations offering information and referral for many diseases and conditions

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:

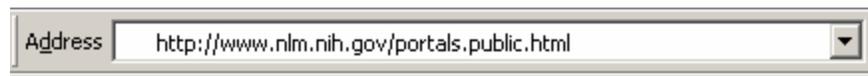


Let’s look more closely at the URL. The basic components of a URL are:

- ▶ 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.

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:

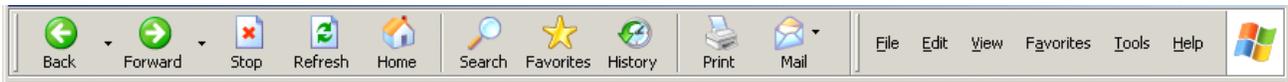
.au	Australia
.de	Germany
.it	Italy

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:



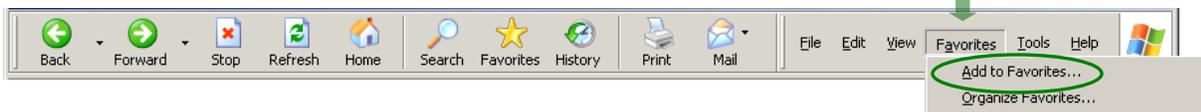
- Click... **Back**...to return to the last page you viewed
Forward...to return to a page you viewed before clicking the **Back** button
Stop...to cancel opening a new page
Refresh...to re-open (reload) the page
Home...to go to your starting page (can be customized)
Search...to find another Web page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

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



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

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



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

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



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



Printing Web Pages

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

Tips for Printing Web Pages:

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

About Adobe PDF and Adobe Reader

Adobe Portable Document Format (PDF) is a universal file format that has become an international standard for electronic document distribution. Created by Adobe Systems, Inc., PDF allows users to print files as they appear on screen, keeping page numbering and graphics intact. Adobe offers the free Adobe Reader® program so that anyone can view and print PDF files. To install Adobe Reader, go to <http://www.adobe.com/downloads> and click the **Get ADOBE® READER®** icon.



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

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



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

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

World Wide Web Search Tools

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

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

How to Construct a Search

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

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

Next, identify the important concepts within the question:

- ▶ children, hiv, treatment

Then, identify the search terms to describe those concepts:

- ▶ children, hiv, treatment

YOUR SEARCH STRATEGY
<p>PLAN!</p> <ul style="list-style-type: none"> ▶ What are you looking for? ▶ Is the Web the best place to find the information?
<p>ACT!</p> <ul style="list-style-type: none"> ▶ Know which search tools to use.
<p>REVIEW!</p> <ul style="list-style-type: none"> ▶ Did the information you find answer your question? ▶ Do you need to redefine, narrow, or expand your topic?

Consider synonyms and variations of those terms:

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

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



Boolean Searching

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

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

Narrowing a Search

To narrow a search on apples:

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

Broadening a Search

To broaden a search on macintosh apples:

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

Additional Resources

For further information, we recommend these additional resources:

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

Selected World Wide Web Search Tools

Major Search Directories and Search Engines

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

Meta Search Engines

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

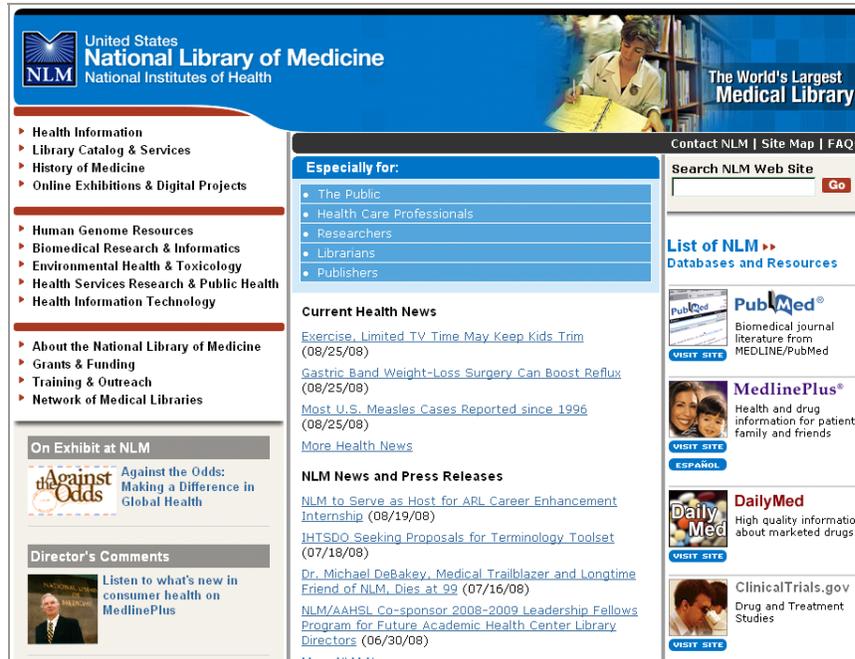
Miscellaneous

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

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Finding Quality Health Information on the Internet

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



Link to
List of NLM's
Databases
& Resources

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

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 card in the back of this workbook.

Additional Resources

For further information, we recommend these additional resources:

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



Savvy Health Surfing Exercises

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

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

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AIDSinfo

AIDSinfo is a U.S. Department of Health and Human Services (DHHS) Web site that offers the latest federally approved information on HIV and AIDS clinical research, treatment and prevention, and medical practice guidelines for consumers and health care providers. A comprehensive Spanish version (*infoSIDA*) is also available.

The screenshot shows the AIDSinfo website interface. At the top, there is a navigation bar with 'Live Help', 'Subscribe to Listserv', 'Español', and 'Site Tour' links. Below this is a search bar and a contact number: 'E-mail 1-800-HIV-0440 (1-800-448-0440)'. The main navigation menu includes 'Guidelines', 'Drugs', 'Clinical Trials', 'Vaccines', 'Health Topics', and 'More AIDSInfo'. The main content area is organized into six categories, each with a representative image and a list of sub-topics. A 'Highlights' section on the right features recent news items, and a 'Features' section lists additional resources like fact sheets and homework help. A 'Receive updates' box at the bottom right encourages users to subscribe to the listserv.

<http://aidsinfo.nih.gov>

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

- ▶ **More AIDSinfo**—Download the *AIDSinfo HIV/AIDS Glossary and Treatment Guidelines* for Pocket PC (MS-Windows-based) and Palm PDAs

Other features include:

- ▶ **Live Help**—confidential one-on-one assistance via the Internet from health information specialists
- ▶ **Glossary**—definitions of HIV/AIDS-related terms in English and Spanish
- ▶ **Homework Help**—resources and references for learning and writing papers about HIV and AIDS for school projects
- ▶ **Publications**—print, electronic, and PDF versions of *AIDSinfo* publications

Searching AIDSinfo

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



Search Box
Navigation Tabs

AIDSinfo Drugs Database

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

AIDSinfo Clinical Trials Database

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

Additional Resources

For further information, we recommend these additional resources:

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



AIDSinfo Search Exercises

Search Example

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

Suggested Solution:

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



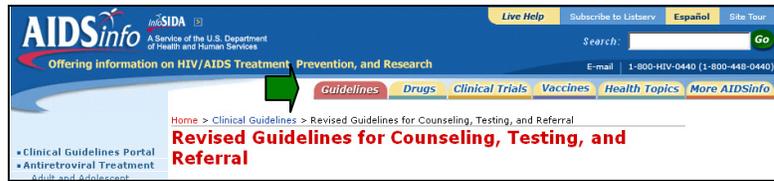
- ▶ Click Revised Guidelines for Testing, Counseling, and Referral under **Testing** in the menu bar to the left



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

- ▶ Review the document and close the CDC window

► Click the **Guidelines** tab to return to the Clinical Guidelines Portal



Search Exercises

Search Exercises: Guidelines

Exercise 1: Locate 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 [Perinatal Guidelines](#) under “**Maternal-Child Transmission**” in the menu bar to the left
- Click [PDF Version \(5.6 MB\)](#)
- Review the document and close the pop-up window
- Click [Previous Versions](#) under “**Archives**” in the menu bar to the left
- Scroll to the Perinatal Guidelines section of the page
- Click the PDF link for “Friday, January 30, 1998”
- Review the document and close the pop-up window
- Click the **Guidelines** tab to return to the **Clinical Guidelines Portal**

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

Suggested Solution:

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

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

Suggested Solution

- Click Adult and Adolescent Guidelines under Antiretroviral Treatment in the menu bar to the left
- Click Search under Guidelines for the Use of Antiretroviral Agents in HIV-1-Infected Adults and Adolescents - January 29, 2008
- Type “**ant**” in the search box
 Note: you will get a drop-down menu populated with keywords that contain the same root letters
- Select Antiretroviral naive from the list
- Click Go
- Click Considerations for Antiretroviral Use in Special Patient Populations
- Review the guidelines and close the pop-up window
- Click the **Guidelines** tab to return to the **Clinical Guidelines Portal**

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

Search Exercises: Drugs

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

Suggested Solution:

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

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

Suggested Solution:

- Click [T](#) under **Alphabetical Search**
- Click [Tenofovir disoproxil fumarate](#)
- Click **Health Professional Version**
-  Detailed Information is provided only in the health professional version.
- Scroll to the [Drug and Food Interactions](#) section and review the information
- Click the **Drugs** tab to return to the **AIDSinfo Drug Database**

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

Suggested Solution:

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

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

Suggested Solution:

- Click [D](#) under **Alphabetical Search**
- Click [Darunavir](#)
- Click **Spanish Version**
- Click the **Drugs** tab to return to return to the **AIDSinfo Drug Database**

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

Suggested Solution:

- Select [Entry and Fusion Inhibitors](#) from the **Drug Class** pull-down menu
- Click the **Search** button
- Review the list of drugs retrieved
- Click the investigational drug of your choice

- Scroll to the **Clinical Trials** section and click “**here**” to search ClinicalTrials.gov for trials that use the selected drug
- Review the clinical trial record(s) and close the ClinicalTrials.gov window
- Click the **Drugs** tab to return to return to the **AIDSinfo Drug Database**

Alternate Method:

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

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

Suggested Solution:

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

Search Exercises: Clinical Trials

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

Suggested Solution:

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

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

Suggested Solution:

- Select Kidney disease from the **Include the condition** pull-down menu under **Create your own Search**
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser's **Back** button to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

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

Suggested Solution:

- Type **HIV Transmission** in the "Contain the word(s)" search box under **Create your Own Search**
- Select Pregnancy from the **Include the Condition** pull-down menu
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser's back button to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

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

Suggested Solution:

- Select Kaposi's sarcoma from the "Include the condition" pull-down menu under **Create your own Search**
- Type **Haart** in the "use the drug" search box
- Click the **Submit** button at the bottom of the page
- Review a study or studies of your choice
- Click your browser's back button to return to *AIDSinfo*
- Click the **Clinical Trials** tab to return to the **Clinical Trials** page

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

Suggested Solution:

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

This page is intentionally blank.

ClinicalTrials.gov

ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers, including the trial's purpose, who may participate, locations where trials are held, contact information, and whether or not the trial is currently recruiting participants. The database currently contains information on more than 60,000 trials with locations in 157 countries.

<http://clinicaltrials.gov>

Searching ClinicalTrials.gov

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

For advanced searching, click the **Advanced Search** tab or the [Advanced Search](#) link below the search box. Advanced searching allows for more specific search criteria, such as the state or country of the trial, the study type, or the age group of the participants. Further searching within the results is possible.

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 Manuals and Resources (Workbook Section 6)
http://www.nlm.nih.gov/pubs/web_based.html
- ▶ Prescription for Success: Consumer Health Information on the Internet
<http://nnlm.gov/training/consumer/prescription>
- ▶ NLM's Consumer Health Databases
http://nnlm.gov/training/consumer/nlm_databases/chdatabases_clinicaltrials.doc
- ▶ NLM Gateway and ClinicalTrials.gov
<http://www.nlm.nih.gov/pubs/manuals/gwclintrials.pdf>
- ▶ ClinicalTrials.gov Background Information and Other Consumer Health Information
<http://clinicaltrials.gov/ct2/info>



ClinicalTrials.gov Search Exercises

Search Example

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

Suggested Solution:

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



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



- ▶ Review record(s) of your choice

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

Search Exercises

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

MEDLINE/PubMed

PubMed is a [National Library of Medicine](#) service that provides free access to **MEDLINE**, NLM's database of citations and abstracts in the fields of medicine, nursing, dentistry, veterinary medicine, health care systems, and preclinical sciences. Citations and abstracts are currently derived from approximately 5,200 biomedical journals published in the United States and worldwide. Coverage extends back to 1950.

The screenshot shows the PubMed website interface. At the top, there is the NCBI logo and the PubMed logo with the URL www.pubmed.gov. Below the logos is a navigation bar with tabs for 'All Databases', 'PubMed', 'Nucleotide', 'Protein', 'Genome', 'Structure', 'OMIM', 'PMC', 'Journals', and 'Books'. A search bar is present with 'PubMed' entered and buttons for 'Go', 'Clear', and 'Advanced Search (beta)'. Below the search bar are buttons for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. On the left, a sidebar is labeled 'Sidebar' and contains links for 'About Entrez', 'Entrez PubMed', 'PubMed Services', and 'Related Resources'. A central message box asks 'Does NIH fund your work?' and provides information about the NIH Public Access Policy.

<http://pubmed.gov>

The PubMed sidebar (see above) contains links to PubMed features, including tutorials and help resources; **PubMed Services** for additional search options and My NCBI; and **Related Resources**, information on ordering documents, links to other NLM databases, and PubMedCentral, a free digital archive of biomedical and life sciences journal literature.

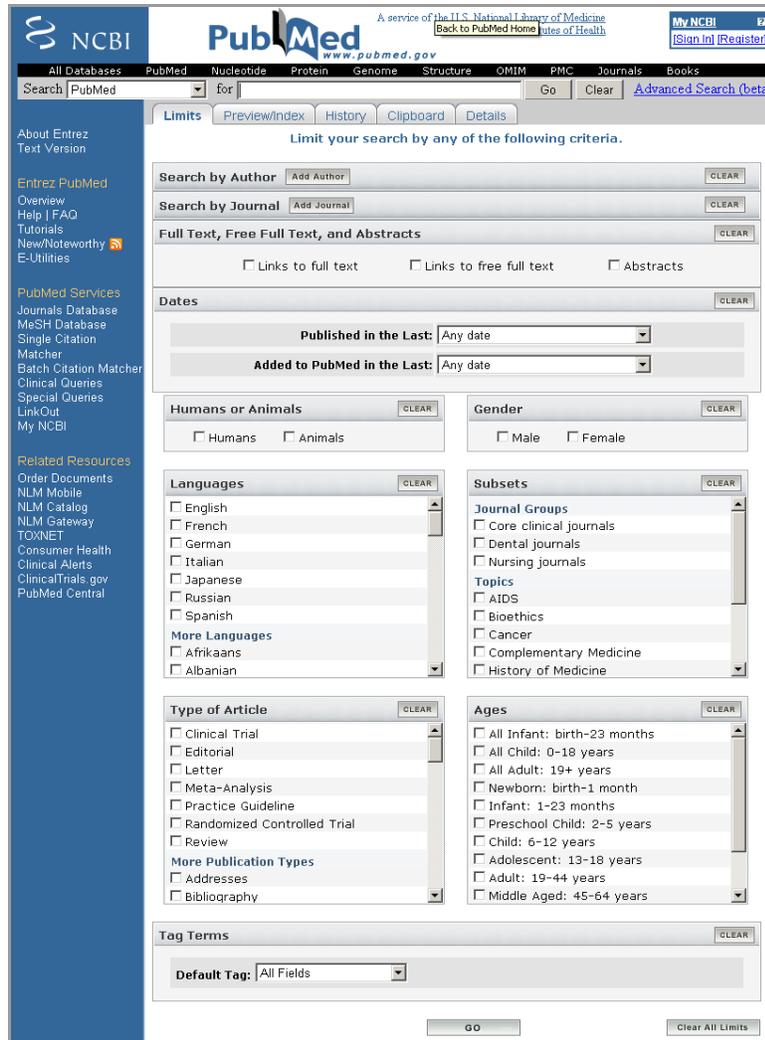
Searching PubMed

Enter your search term(s) into the search box and click the **Go** 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 **Special Queries**

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



Advanced Search (Beta)

An advanced search option is being developed for PubMed and is available in a beta version for users to try. Changes to this feature will be made based on findings and feedback from users. Comments can be sent via the “Write to the Help Desk” link at the bottom of the screen.

Search Results

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

- ▶ Links to related articles for all citations—click the blue Related Articles link to the right of the citation

- ▶ Links to free full-text journal articles at Web sites of participating publishers—click the green icon (📄) to the left of the citation
- ▶ Links to free full-text articles on PubMed Central—click the orange and green icon (📄) to the left of the citation
- ▶ Links to other NLM resources for additional information—click the down arrow to the right of the Display field to select a resource

To display the abstract for a journal article, click the author link or the yellow icon (📄) to the left of the citation. Some citations do not have abstracts and will include the note “No abstract available.”

My NCBI

My NCBI is an easy way to STORE 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. To use this feature, you must first register and your browser must accept cookies. Click [My NCBI](#) in the left sidebar under **PubMed Services**.

Ordering Documents

Loansome Doc is an automated document ordering program that allows you to order the full text of an article from a Loansome Doc participating library. To access this feature, click [Order Documents](#) in the left sidebar under **Related Resources**. Users must register to use this service.

Additional Resources

For further information, we recommend these additional resources:

- ▶ NCBI Beta Version of Advanced Search Available (NLM Technical Bulletin)
http://www.nlm.nih.gov/pubs/techbull/mj08/mj08_advanced_search.html
- ▶ PubMed Help (an online Help book)
<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.chapter.pubmedhelp>
- ▶ PubMed Quick Tour: Simple Subject Search
<http://www.nlm.nih.gov/bsd/viewlet/search/subject/subject.html>
- ▶ PubMed Quick Tour: Search for an Author
<http://www.nlm.nih.gov/bsd/viewlet/search/author/author.html>
- ▶ CAM (Complementary and Alternative Medicine) on PubMed
<http://nnlm.gov/training/consumer/cam/cam-pubmed.pdf>
- ▶ Getting Started with LinkOut (National Network of Libraries of Medicine)
<http://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 <http://pubmed.gov>
- ▶ Type **hurricane katrina** in the search box
- ▶ Click the **Limits** tab



- ▶ Click the checkbox for the AIDS topic in the **Subsets** limits box
- ▶ Click the **Go** button to the right of the search box or at the bottom of the page

- ▶ Review the citation(s) retrieved

Search Exercises

Exercise 1: Locate articles that discuss the use of *Entecavir* in the treatment of people coinfecting with HIV and Hepatitis B.

Suggested Solution:

Type	entecavir coinfecting hepatitis b in the search box
Click	the Limits tab
Click	the checkbox for the AIDS topic in the Subsets limit box
Click	the Go button
Review	the citation(s) retrieved
	 When you no longer want to search within the AIDS subset, you must deselect the checkbox on the Limits tab.

Exercise 2: Locate articles that discuss HIV/AIDS drug treatments that adversely react with St. John's Wort. Review related articles.

Suggested Solution:

Type	st john's wort drug interactions in the search box
	 Note that the AIDS subset limit is still checked and the Limits tab still contains a checkmark. You are still searching the AIDS subset of PubMed.
Click	the Go button
Review	the citation(s) and related articles

Exercise 3: Find articles that discuss pain management in patients with HIV infection who have a history of substance abuse. Sort by publication date.

Suggested Solution:

Type	pain management substance abuse in the search box
Click	the Go button
Select	<u>Pub Date</u> from the Sort By pull-down menu
Review	the citation(s)

Exercise 4: Locate articles that discuss taking *Zidovudine* for the prevention of mother-to-child HIV transmission. Limit retrieval to articles written in English and published in the past five years.

Suggested Solution:

- Type **zidovudine mother child transmission** in the search box
- Click the **Limits** tab
- Select 5 years from the **Published in the Last** pull-down menu
- Select English in the **Languages** box
- Click the **Go** button
- Review the citation(s)

Exercise 5: Cytomegalovirus retinitis is common among people infected with HIV. What has been written about the use of *foscarnet* and *ganciclovir* in treating this disease in children?

Suggested Solution:

- Type **cytomegalovirus retinitis foscarnet ganciclovir** in the search box
- Click the **Limits** tab
-  Note that all the limits previously selected remain selected. You must deselect limits you do not want for this search.
- Deselect English in the **Languages** box
- Deselect 5 years from the **Published in the Last** pull-down menu
- Select All Child: 0-18 years in the **Ages** box
- Click the **Go** button
- Review the citation(s)

Exercise 6: Locate an article written by L.M. Bogart titled “HIV-Related Stigma among People with HIV and their Families: A Qualitative Analysis.”

Suggested Solution:

- Type **stigma** in the search box
- Click the **Limits** tab
- Click the **Add Author** button to the right of “**Search by Author:**”
- Type **bogart lm** in the **Author Name** search box
-  Note that all the limits previously selected remain selected. You must deselect limits you do not want for this search.

- Deselect All Child: 0-18 years in the **Ages** box
 - Click the **Go** button
 - Review the citation(s)
-  Note: You do not need to deselect Limits after an author search.

Exercise 7: Locate articles on the impact of cultural competency in HIV/AIDS care and prevention. Next, e-mail an abstract to yourself in text form.

Suggested Solution:

- Type **cultural competency** in the search box
- Click the **Go** button
- Click the checkbox to the left of a record of your choice
- Select E-mail from the “Send to” pull-down menu
- Select Abstract from the “Format” pull-down menu and Text from the “as” pull-down menu
- Type your e-mail address in the e-mail box
- Click the **Mail** button
- Review the e-mail confirmation message highlighted in pink above the abstract

Exercise 8: Using PubMed Central, locate free full-text articles that discuss improved adherence to HAART.

Suggested Solution:

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

Alternate Method:

- Click PubMed Central in the left sidebar under “Related Resources”
- Type **improved adherence haart** in the search box
- Click the **Go** button
- Review the citation(s)
- Click PubMed in the list of databases above the search box to return to the PubMed home page

Exercise 9: Set up a My NCBI user account and conduct a search for journal articles discussing structured antiretroviral therapy interruption. Go back to My NCBI and set up a filter for free full-text articles. Then return to your search and view the free full-text articles.

Suggested Solution:

- Click [My NCBI](#) in the left sidebar under “PubMed Services”
- Click [register for an account](#) under “**My NCBI: Sign In:**”
- Follow the directions for setting up a username and password
 -  Clicking the “Keep me signed in unless I sign out” checkbox will create a permanent cookie so that My NCBI will be indefinitely available on your computer without signing in again.
- Type **structured antiretroviral therapy interruption** in the search box
- Click the **Go** button
- Click [Save Search](#) at the top of the screen to the right of the search box
- Click the **OK** button in the pop-up window
- Click [My NCBI](#) under **PubMed Services**
 -  Your search (structured antiretroviral therapy interruption) will be listed.
- Click [Filters](#) in the left sidebar
- Click [PubMed](#) in the list of databases that appears
- Click the **Free Full Text** checkbox
- Click [Searches/Collections](#) in the left sidebar
- Click **Structured antiretroviral therapy interruption** under PubMed Searches
- Click the **Free full text** tab
- Review the citation(s)

Saving and Printing Records in PubMed

The PubMed **Send to Text** function creates a text file of PubMed records, which you can save on your computer. The **Send to** button is available on screens with search results. You can save the entire results of a specific search or selected records. If you don't select specific records 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 10,000 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 to specify where this file should be placed on your computer and give you the opportunity to rename the file.

Saving Entire Search Results

- ▶ Use the **Display** pull-down menu to select a format.
- ▶ Click **Send to File** and your items will be saved in the **Display** format as plain text.
- ▶ The default for the **File** feature is to save the entire retrieval, up to 10,000 items, unless you specifically select citations. For example, if you use the **Send to File** selection on a screen displaying 1-20 items of 2,356, your saved file will contain all 2,356 citations.

Saving Selected Citations from a Single Search

- ▶ Use the **Display** pull-down menu to select a format.
- ▶ Click in the check boxes 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** and your selected items will be saved in the **Display** format as plain text.



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 use the Show function and **Send to Text** to adjust your display as needed.

Clipboard

To place an item in the Clipboard, click on the check box to the left of the citation, select **Clipboard** from the **Send to** pull-down menu, and then click the **Send to** button. Once you have added a citation to the Clipboard, the record number color will change to green.

 If you select [Clipboard](#) from the **Send to** menu without selecting citations using the check box, PubMed will add all (up to 500 citations) of your search results to the Clipboard. The Clipboard will be lost after one hour of inactivity on PubMed or any of the other Entrez databases.

 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, which 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 [1a]

 This does not affect or replace the Clipboard contents.

E-mail

To e-mail your results, click on specific citations and select [E-mail](#) from the **Send to** pull-down menu. You may e-mail up to 500 items. You may select the format, the sorting method, and HTML or text. In addition, you may enter a message that will be included with the PubMed search results in the e-mail message. The e-mail page reflects settings from the results page and can be modified.

After clicking the **Mail** button, the system returns you to your results page and displays a message confirming that the e-mail message was sent. Your PubMed results will be sent from the NCBI automatic mail server, Sent by Entrez [nobody@ncbi.nlm.nih.gov] with a "Subject" of PubMed Search Results. Do not reply to this message. This is not a functioning customer service e-mail address.

 If you choose HTML, your PubMed e-mail message displays as a PubMed results page and includes hyperlinks to Related Articles, LinkOut, and other PubMed features. The recipient's e-mail program must be set for HTML view in order to properly view in HTML format.

Order

The **Order** function allows you to order the full-text copy of an article from a library in your area using the Order Documents feature of PubMed.

 Prior to using this program, 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 Documents](#) from the PubMed sidebar menu, then [Loansome Doc](#) under **Loansome Doc Options**, then **[Sign up!](#)** from the Loansome Doc screen.

 Once you have registered with Loansome Doc, 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** menu, and click the **Send to** button. You may also use the Clipboard to collect items from multiple searches before ordering.



For some journals the full-text of 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. You may also choose LinkOut from the Links pull-down menu to the right of each citation. 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 the full-text of articles in some journals.

Importing Citations into a Reference Manager Program

To import search results into a reference manager program, change the **Display** format to MEDLINE, select File from the **Send to** pull-down menu, then click **Send to**. This format includes the field tags needed for these programs.

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

Print

Use the print function of your Web browser to print all the information and citations displayed on your Web page. Before printing, consider using the Show (number of pages) Feature to increase the number of documents per page so that the total number of documents is displayed on one page (maximum: 500 per page). You can print only the citations from the displayed page.



You may also wish to display your citations as "Text" to strip the sidebar menu and toolbars prior to printing your results.



You may want to print selected items from one or more searches on a single page. You can do this by collecting them in PubMed's Clipboard.

MEDLINE and MedlinePlus: What is the Difference?

MEDLINE is the National Library of Medicine’s (NLM) premier bibliographic database. This web-based research tool covers the fields of medicine, nursing, dentistry, veterinary medicine, the health care system, and the preclinical sciences. It contains more than 17 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 750 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

MedlinePlus

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

MedlinePlus Resources

- Health Topics**
Start here with 750 topics on conditions, diseases and wellness
- Drugs & Supplements**
About your prescription and over-the-counter medicines, herbs and supplements
- Medical Encyclopedia**
Includes pictures and diagrams
- Dictionary**
Spellings and definitions of medical words
- News**
Current health news and press announcements
- Directories**
Find doctors, dentists and hospitals
- Go Local**
A service for finding local resources for health-related issues
- Other Resources**
Local health services, libraries, organizations, international sites and more
- Multiple Languages**
Health information in over 40 languages

Current Health News

- ▶ [Number of New U.S. HIV Infections Gets Revised Upwards](#)
- ▶ [Taking Depression to Heart](#)
- ▶ [Low Hepatitis B Vaccination Rates Seen in U.S. Newborns](#)
- ▶ [More news](#)

Featured Site

Stay up to date with your health. Learn about [checkups](#) and [screening tests](#).

In the Spotlight

Need information on health services? [Go Local!](#)
Find health services in your hometown in:

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- ▶ [Indiana](#)
- ▶ [Iowa](#)
- ▶ [Michigan](#)
- ▶ [Minnesota](#)
- ▶ [Nebraska](#)
- ▶ [Ohio - Southeast](#)

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Studies for new drugs and treatments

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Health information for older adults

Surgery Videos
Videos of surgical procedures

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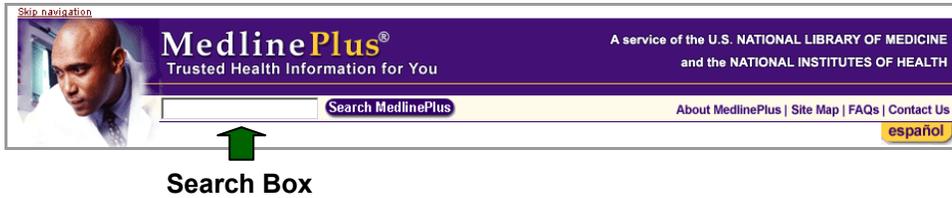
<http://medlineplus.gov>

Features offered by MedlinePlus include:

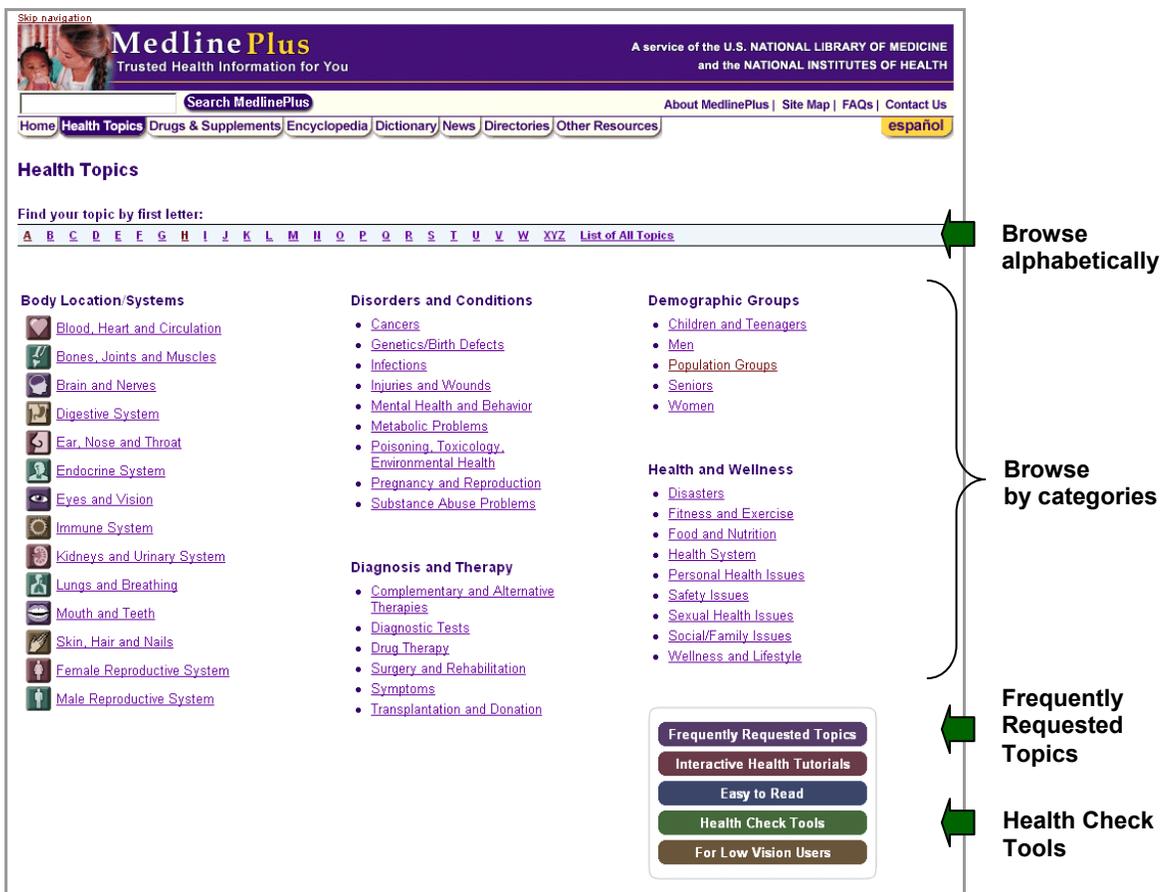
- ▶ Easy-to-read language
- ▶ Easy-to-navigate pages
- ▶ Updated daily
- ▶ No advertising or endorsements
- ▶ Spanish version: <http://medlineplus.gov/spanish>
- ▶ Multiple Language health topics

Searching MedlinePlus

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



Browsing MedlinePlus



MedlinePlus Health Check Tools

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

Additional Links on the Home Page



Director's Comments

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



NIH MedlinePlus Magazine

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



E-mail Updates and RSS

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

The screenshot shows the top navigation bar of the MedlinePlus website. It includes the text "Service of the U.S. NATIONAL LIBRARY OF MEDICINE and the NATIONAL INSTITUTES OF HEALTH" and "About MedlinePlus | Site Map | FAQ". Below this are four main menu items: "Interactive Tutorials" (Over 165 slideshows with sound and pictures), "ClinicalTrials.gov" (Studies for new drugs and treatments), "NIH SeniorHealth" (Health information for older adults), and "Surgery Videos" (Videos of surgical procedures). At the bottom of the menu, there is a "NEW" badge followed by "What's New" and a list of three items: "Director's Comments", "NIH MedlinePlus Magazine", and "E-mail Updates and RSS". A large right-facing curly bracket is drawn over the bottom three items.

Additional Resources

For further information, we recommend these additional resources:

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



MedlinePlus Search Exercises

Search Example

Review the MedlinePlus AIDS page and locate general information about HIV and AIDS.

Suggested Solution:

- ▶ Go to <http://medlineplus.gov>
- ▶ Click **Health Topics**

The screenshot shows the MedlinePlus homepage with a search bar and navigation links. The 'Health Topics' link is highlighted with a green arrow pointing to it.

- ▶ Click **A**

The screenshot shows the 'Health Topics' page with an alphabetical list of topics. The letter 'A' is highlighted with a green arrow.

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

The screenshot shows the alphabetical list of topics. The word 'AIDS' is highlighted with a green arrow.

- ▶ Click **Overviews** under **Basics**

The screenshot shows the AIDS page with the 'Basics' section expanded. The 'Overviews' link is highlighted with a green arrow.

- ▶ Click [AIDS/HIV NIH](#) (National Institute of Child Health and Human Development)



Overviews

- [AIDS/HIV NIH](#) (National Institute of Child Health and Human Development)
- [HIV/AIDS Fact Sheets](#) (Centers for Disease Control and Prevention)
- [Questions and Answers on HIV and AIDS](#) (Centers for Disease Control and Prevention)

Latest News

- [Number of New U.S. HIV Infections Gets Revised Upwards](#) (08/03/2008, HealthDay)
- [New HIV/AIDS Guidelines Support Earlier Treatment](#) (09/03/2008, HealthDay)

- ▶ Review the Information and close the NIH window

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



Search Exercises

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

Suggested Solution:

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

Exercise 2: Using the Health Topics search feature, locate information on factors to consider before using an alternative medicine therapy.

Suggested Solution:

- | | |
|-------|--|
| Click | the Health Topics tab |
| Click | A |
| Click | <u>Alternative Medicine</u> from the alphabetical list |

- Click [Are You Considering Using Complementary and Alternative Medicine \(CAM\)?](#) under **Start Here**
- Review the information retrieved and close the pop-up window
- Review the additional information on the MedlinePlus page

Exercise 3: Find information about HIV/AIDS and children. Next, use the Go Local feature to locate AIDS services and resources in your community.

Suggested Solution:

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

Exercise 4: Find health information for diverse population groups.

Suggested Solution:

- Click the **Health Topics** tab
- Click [Population Groups](#) under **Demographic Groups**
- Click the population group of your choice from the alphabetical list
- Review the information retrieved

Exercise 5: I read that *Buprenorphine* is showing promise as an effective drug addiction treatment for HIV-positive patients. What is *Buprenorphine* and why is it used for drug addiction treatment?

Suggested Solution:

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

Exercise 6: According to a recent survey conducted by researchers in Cleveland, Ohio, people living with HIV/AIDS commonly use the following herbs: Echinacea, Ginseng, Ginko, St. Johns Wort, Goldenseal, and Yohimbe. Can these supplements interfere with prescribed medications? What is the scientific evidence for use of these drugs?

Suggested Solution:

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

Exercise 7: Find the MedlinePlus Hepatitis C page and view the interactive tutorial.

Suggested Solution:

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

Exercise 8: Using the Medical Encyclopedia, locate an illustration depicting Kaposi's sarcoma.

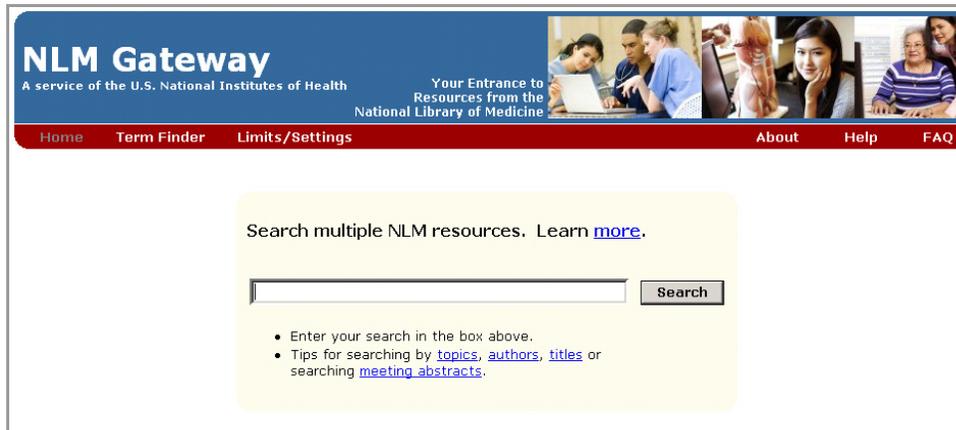
Suggested Solution:

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

Exercise 9: Locate health information on a topic of your choice.

The 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.

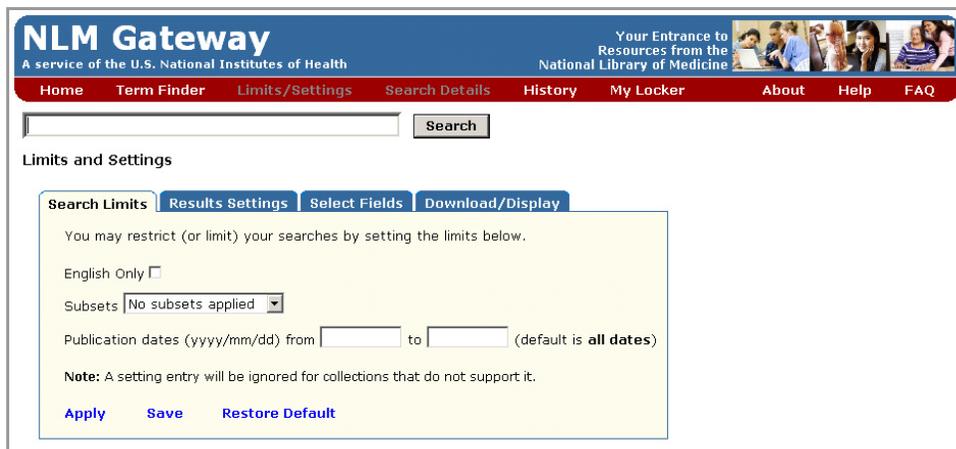


<http://gateway.nlm.nih.gov>

Searching NLM Gateway

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

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



The list of collections that Gateway searches is arranged in three categories. Each collection name is linked to its home Web site.

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

Search Results

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

The screenshot shows the NLM Gateway search results page. At the top, it says 'NLM Gateway' and 'Your Entrance to Resources from the National Library of Medicine'. Below that is a navigation bar with links: Home, Term Finder, Limits/Settings, Search Details, History, My Locker, About, Help, and FAQ. A search box contains the text 'hiv aids' and a 'Search' button. Below the search box, it says 'Results Summary: 163766 records found' and '[Bookmark this Search]'. The results are organized into three columns:

Bibliographic Resources	Consumer Health Resources	Other Information Resources
85030 MEDLINE/PubMed - journal citations, abstracts	32 MedlinePlus - Health Topics	192 HSRProj - Health Services Research Projects
6939 NLM Catalog - books, AVs, serials	96 MedlinePlus - Drug Information	47 OMIM - Online Mendelian Inheritance in Man
1889 Bookshelf - full text biomedical books	45 MedlinePlus - Medical Encyclopedia	51 HSDB - Hazardous Substances Data Bank
5133 TOXLINE Subset - toxicology citations	28 MedlinePlus - Current Health News	0 IRIS - Integrated Risk Information System
143 DART - Developmental and Reproductive Toxicology	48 MedlinePlus - Other Resources	
	3639 ClinicalTrials.gov	
	364 DIRLINE - Directory of Health	

My Locker

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

Additional Resources

For further information, we recommend these additional resources:

- ▶ NLM Gateway Brochure
<http://nml.gov/training/resources/gwtri.pdf>
- ▶ NLM Gateway Training Manual
<http://www.nlm.nih.gov/pubs/manuals/gwclintrials.doc>



NLM Gateway Search Exercises

Search Example

Locate information on HIV/AIDS treatment. Then review the Health Services Research Projects (HSRProj) information.

Suggested Solution:

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

The screenshot shows the NLM Gateway search interface. At the top, it says 'NLM Gateway' and 'Your Entrance to Resources from the National Library of Medicine'. Below this is a navigation bar with links: Home, Term Finder, Limits/Settings, About, Help, and FAQ. The main search area has a text input field containing 'hiv aids treatment' and a 'Search' button. A green arrow points to the search button. Below the search box, there is a small text prompt: 'Enter your search in the box above.'

- ▶ Results will be displayed in three categories:
 - Bibliographic Resources
 - Consumer Health Resources
 - Other Information Resources
- ▶ Note the number of records in each resource to the left of the resource name
- ▶ Click **HSRProj - Health Services Research Projects** under **Other Information Resources**

The screenshot shows the search results for 'hiv aids treatment'. The results are summarized as '76455 records found'. The results are organized into three columns:

- Bibliographic Resources**: 47902 MEDLINE/PubMed - journal citations, abstracts; 2753 NLM Catalog - books, AVs, serials; 990 Bookshelf - full text biomedical books; 1965 TOXLINE Subset - toxicology citations; 53 DART - Developmental and Reproductive Toxicology; 19259 Meeting Abstracts.
- Consumer Health Resources**: 21 MedlinePlus - Health Topics; 67 MedlinePlus - Drug Information; 36 MedlinePlus - Medical Encyclopedia; 17 MedlinePlus - Current Health News; 25 MedlinePlus - Other Resources; 3072 ClinicalTrials.gov; 96 DIRLINE - Directory of Health Organizations; 1 Genetics Home Reference; 0 Household Products Database.
- Other Information Resources**: 124 HSRProj - Health Services Research Projects; 18 OMIM - Online Mendelian Inheritance in Man; 51 HSDB - Hazardous Substances Data Bank; 0 IRIS - Integrated Risk Information System; 0 ITER - International Toxicity Estimates for Risk; 0 GENE-TOX - Genetic Toxicology (Mutagenicity); 0 CCRIS - Chemical Carcinogenesis Research Information System; 5 Profiles in Science.

 A green arrow points to the 'HSRProj - Health Services Research Projects' entry in the 'Other Information Resources' column. At the bottom, there are links for 'Contact Us', 'U.S. National Library of Medicine', 'National Institutes of Health', 'Health & Human Services', 'Privacy', 'Copyright', 'Accessibility', 'Freedom of Information Act', and 'USA.gov'.

- ▶ Review record(s) of your choice
- ▶ Click **Results** in the left sidebar to return to the search results page



Search Exercises

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

Suggested Solution:

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

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

Suggested Solution:

- | | |
|---|--|
| Type | crystal methamphetamine in the search box |
|  | Note that the Limits tab still contains a checkmark. You are still searching the AIDS subset of the NLM Gateway |

Click the **Search** button
 Review record(s) of your choice

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

Suggested Solution:

Click the **My Locker** button at the top of the page
 Click Create one now under “Sign-in”
 Follow the on-screen directions for setting up a user name and password
 Type **structured antiretroviral therapy interruption** in the search box
 Click the **Search** button
 Click Meeting Abstracts under **Bibliographic Resources**
 Click box next to the record of your choice
 Click **Put in locker** at the top of the page

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

This page is intentionally blank.

DIRLINE

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

The screenshot shows the DIRLINE website interface. At the top, there is a blue header with the NLM logo and text: "United States National Library of Medicine National Institutes of Health". To the right of the header is a search bar labeled "Search NLM Web Site" with a "Go" button. Below the header is a navigation bar with links: "NLM Home | Contact NLM | Site Map | FAQs". The main content area has a dark blue banner for "Directory of Health Organizations SIS Specialized Information Services". Below this is a secondary navigation bar with links: "DIRLINE PDA Access", "SIS Home", "About Us", "Site Map & Search", and "Contact Us". The main search area is titled "Search DIRLINE" and includes a search input field, "Search" and "Clear" buttons, and a placeholder text "(e.g. aging chronic diseases, scleroderma)". Below the search field are radio buttons for search criteria: "all of the words" (selected), "any of the words", and "exact phrase". There are also checkboxes for "Fields" to search: "Organization name or acronym" and "MeSH Headings/Keywords". Under "Select records containing:", there are checkboxes for "Only organizations with toll-free numbers" and "Only organizations with services for the hearing impaired". At the bottom of the search area are "Search" and "Browse the Index" buttons. On the right side of the page, there is a "Health Hotlines" section with a telephone icon and text: "Health Hotlines Toll-free numbers for over 300 organizations". Below this is a "Support Pages" section with links: "Help", "Fact Sheet", "Disclaimer", and "A to Z List of Health Organizations".

Health Hotlines:
Search or print
toll-free numbers
for over 300
organizations

**A-Z List of Health
Organizations**

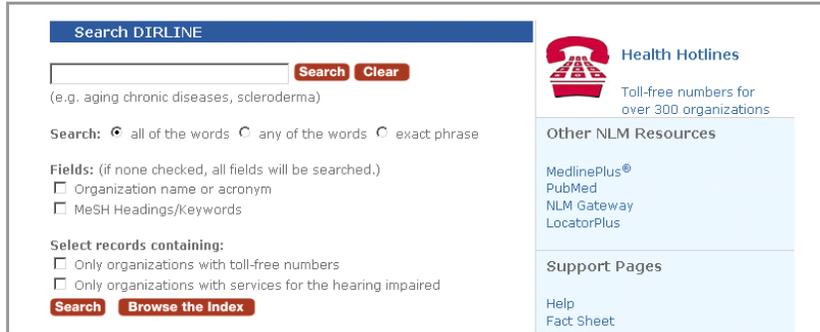
<http://www.dirline.nlm.nih.gov>

DIRLINE contains more than 8,000 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 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®).



Use the A-Z Index to browse for a health organization:



Additional Resources

For further information, we recommend these additional resources:

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



DIRLINE Search Exercises

Search Example

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

Suggested Solution:

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

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

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



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



Search Exercises



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

Exercise 1: Find HIV/AIDS-related resources that are located in your state. Review several resources of interest to you.

Suggested Solution:

- Type **hiv aids [your state]** in the search box
- Click the **Search** button
- Review record(s) of your choice
-  After reviewing a record, click the **Search Results** button on the left to return to the search results page.
- Click the **New Search** button on the left to prepare for the next search

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

- Click the **Browse the Index** button
- Type **gay** in the search box
- Click the **Search** button
- Click the checkbox for the index term "gay"
- Click the **Select** button above the table
- Click the **Sort** button on the left
- Click **Descending** and then the **Sort** button
- Review record(s) of your choice
- Click the **New Search** button on the left to prepare for the next search

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

National Minority AIDS Council

<http://www.nmac.org>

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

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

DONATE TODAY [GO](#)

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

NMAC HEADLINES

- Read the press release about the call by 30 national HIV/AIDS organizations and leaders representing African-American, Latino, Native American/Alaska Native, and Asian & Pacific Islander communities for the development and implementation of a comprehensive national AIDS strategy. The demands to the Democratic and Republican presidential nominees come in response to long standing concerns about unmet needs for targeted HIV research, treatment access, medical care and prevention in communities of color. [read more](#)
- The 2008 USCA Housing Form now available for attendees having trouble with the online system. Visit our new Q&A Website which covers most questions regarding USCA in Ft. Lauderdale - confirming, creating and/or changing hotel reservations, exhibiting, transportation to and from the airport, renting scooters, etc. [read more](#)
- Thank you to everyone who entered - and voted - in the 2008 HIV Vaccine Awareness Poster Contest! The polls have closed - and the winner is: "HIV Stops with Me" submitted by Sochenda
- David Winkler-Schmit recently interviewed Ravinia Hayes-Cozier, NMAC's Director of Government Relations and Public Policy and Spokesperson, for his heartbreaking Gambit Magazine cover story of HIV/AIDS service delivery in New Orleans, "What's in Their Wallets?" [read more](#)
- Members of the media are invited to cover the 2008 USCA. Online registration for credentials is available until Friday, September 5, 2008! [read more](#)
- USCA will now be held at the Greater Ft. Lauderdale/Broward County Convention Center. More information about this unexpected development now available! [read more](#)
- Re-evaluation of HIV incidence data at the Centers for Disease Control and Prevention (CDC) has revealed that over 55,500 new HIV cases occurred each year from 2003-2006, with 56,300 cases in 2006 alone. These numbers are approximately 40% higher than the CDC's previous estimate of 40,000 new HIV cases annually, an estimate that had remained the same for over ten years. NMAC released a statement today.

ONLINE COVERAGE OF AIDS 2008
XVII International AIDS Conference
Webcasts | Daily Reports
Closing Session
Closing Session
HIV/AIDS and Health System Reform with Former President Bill Clinton
Provided by kaiserfamily.org in partnership with the International AIDS Society

IMPORTANT DEADLINES

LATEST DOWNLOADS

- NMAC Agencywide Brochure
- 2008 USCA Registration Brochure

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

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

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

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



Strategic Plan

- ▶ Trans-NIH Plan for HIV-Related Research

HIV/AIDS Information (links)

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

Centers for Disease Control and Prevention

<http://cdc.gov>

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 20 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.

Additional Highlights

- ▶ Health Disparities
<http://www.cdc.gov/omhd/Topic/HealthDisparities.html>
- ▶ Health Disparities: A Selected Bibliography
<http://www.cdc.gov/nccdphp/publications/HealthDisparities/pdf/bibliography.pdf>
- ▶ Healthy Youth!
<http://www.cdc.gov/HealthyYouth>

Selected Internet Resources in Health

Agency for Healthcare Research and Quality

<http://www.ahrq.gov>

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

American Medical Association

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

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

BioMed Central

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

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

CDC Environmental Health

<http://www.cdc.gov> (Click the Environmental Health topic.)

—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.

CDC National Center for Infectious Diseases

<http://www.cdc.gov/ncidod/diseases>

—An index of illnesses, conditions, concerns, and programs from the National Center for Infectious Diseases. Information provided includes fact sheets and travel information.

Center for Drug Evaluation and Research

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

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

ClinicalTrials.gov

<http://clinicaltrials.gov>

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

CNN Health

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

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

Directory of Open Access Journals

<http://www.doaj.org>

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

Doctor's Guide

<http://www.docguide.com>

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

U.S. Food and Drug Administration

<http://www.fda.gov>

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

Health Hotlines

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

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

Health Literacy Training [FREE]

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

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

Healthfinder

<http://www.healthfinder.gov>

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

HealthWeb

<http://healthweb.org>

—Health links organized in easy-to-use health specialty categories, maintained by medical school libraries in the Greater Midwest Region of the National Network of Libraries of Medicine.

Healthy People 2010

<http://healthypeople.gov>

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

Healthy People 2010 Information Access Project

<http://phpartners.org/hp>

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

Medical Matrix

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

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

MedicineNet

<http://www.medicinenet.com>

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

MedlinePlus

<http://medlineplus.gov>

—A consumer health Web site from the National Library of Medicine, providing health professionals and consumers a wealth of authoritative, up-to-date medical information on over 700 diseases and medical conditions. Resources include lists of hospitals and physicians, a medical encyclopedia, a medical dictionary, extensive information on prescription and non-prescription drugs, health information from the media, and links to thousands of clinical trials. MedlinePlus is updated daily. Available in English and Spanish.

Medscape

<http://www.medscape.com>

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

MedWeb Community (MWC)

<http://www.medweb.emory.edu/MedWeb>

—The next generation of the original MedWeb, MWC focuses on globally available quality biomedical resources and accessibility to all, especially those with low vision and users with low bandwidth. The site contains well-chosen and thorough Internet selections in biomedicine and

extensive links to health professional organizations. Maintained by the staff of the Robert W. Woodruff Health Sciences Center Library at Emory University.

MyFamilyHealthPortrait

<https://familyhistory.hhs.gov>

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

National Library of Medicine

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

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

National Library of Medicine Free Biomedical Literature Resources

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

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

National Medical Association

<http://www.nmanet.org>

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

National Women's Health Information Center

<http://www.4women.gov>

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

NIH Health Information

<http://health.nih.gov>

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

NursingNet

<http://www.nursingnet.org>

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

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

<http://www.omhrc.gov>

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

Partners in Information Access for the Public Health Workforce

<http://phpartners.org>

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

Public Health Information and Data Tutorial

<http://phpartners.org/tutorial>

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

National Clearinghouse for Alcohol and Drug Information

<http://ncadi.samhsa.gov>

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

Public Library of Science

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

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

PubMed

<http://pubmed.gov>

—One of the National Library of Medicine's free search services. It provides access to over 18 million citations in MEDLINE and about HIV/AIDS, with links to participating online journals.

Rural Assistance Center State Resources

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

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

research available to them to enable them to provide quality health and human services to rural residents.

Virtual Hospital®

<http://uihealthcare.com/vh>

—After 13 years of service, on January 1, 2006, Virtual Hospital and Virtual Children's Hospital® ceased operations due to a lack of funding. However, the patient information is now available on the University of Iowa's UI Health Care.com Web site. The information is prepared and reviewed by health professionals.

WebMD®

<http://www.webmd.com>

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

WholeHealthMD

<http://www.wholehealthmd.com>

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

Selected Internet Resources in HIV/AIDS

AIDS.GOV	http://aids.gov
AIDS.ORG	http://aids.org
AIDSinfo	http://www.aidsinfo.nih.gov
aidsinfonyc.org	http://www.aidsinfonyc.org
Aidsmap	http://www.aidsmap.com
AIDS Action Committee of Massachusetts	http://www.aac.org
AIDS Education Global Information System (AEGIS)	http://www.aegis.org
AIDS History Project	http://www.library.ucsf.edu/collres/archives/ahp
AIDS Images Library	http://www.aids-images.ch
AIDS Information and Controversy 1985–1995	http://aidsinfobbs.org
AIDS InfoNet	http://www.aidsinfonet.org
AIDS Project Los Angeles	http://www.apla.org
AIDS Resource List	http://www.specialweb.com/aids
AIDS Treatment Data Network	http://www.atdn.org
AIDS Treatment News	http://www.thebody.com/content/art31573.html
All the Virology on the WWW	http://www.virology.net/garryfavweb.html
The Alternative Medicine HomePage	http://www.pitt.edu/~cbw/altm.html
American Foundation for AIDS Research (AmFAR) Global Link	http://web.amfar.org/treatment/index.asp
American Red Cross	http://www.redcross.org/services/hss/hiv aids
Australian Federation of AIDS Organisations	http://www.afao.org.au
The Body	http://www.thebody.com
California AIDS Clearinghouse	http://www.hivinfo.org

Canadian AIDS Treatment Information Exchange	http://www.catie.ca
Canadian HIV Trials Network	http://www.hivnet.ubc.ca/e/home
Center for AIDS Prevention Studies	http://www.caps.ucsf.edu
Centers for Disease Control and Prevention (CDC) HIV/AIDS	http://www.cdc.gov/hiv
Center for Mental Health Research on AIDS (CMHRA)	http://www.nimh.nih.gov/dahbr/9a-as.cfm
Critical Path AIDS Project	http://www.critpath.org
GMHC on the Web Gay Men’s Health Crisis	http://www.gmhc.org
Healthfinder.gov	http://www.healthfinder.gov
Health Resources and Services Administration (HRSA) HIV/AIDS Program: Caring for the Underserved	http://www.hab.hrsa.gov
Health Services/Technology Assessment Text (HSTAT)	http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=hstat
HIV Databases	http://www.hiv.lanl.gov/
HIVandHepatitis.com	http://hivandhepatitis.com
HIV InSite	http://hivinsite.ucsf.edu
HIV/AIDS Prevention Web Sites for Communities of Color	http://orise.orau.gov/healthcomm/hiv-aids-prevention.htm
HIV/AIDS Surveillance (U.S. Census Bureau)	http://www.census.gov/ipc/www/hivaidsn.html
HIV/AIDS Vaccines	http://www3.niaid.nih.gov/research/topics/HIV/vaccines/
HIVdent (dental information)	http://www.hivdent.org
HIVpositive.com	http://www.hivpositive.com
How to Find Reliable HIV/AIDS Treatment Information on the Internet	http://orise.orau.gov/healthcomm/hiv-aids-treatment.htm
International AIDS Society	http://www.iasociety.org
International Association of Physicians in AIDS Care	http://www.iapac.org
Johns Hopkins HIV Guide	http://www.hopkins-aids.edu

Joint United Nations Programme on HIV/AIDS	http://www.unaids.org
MedlinePlus—AIDS	http://medlineplus.gov/aids
Medscape HIV/AIDS	http://www.medscape.com/hiv
National AIDS Treatment Advocacy Project (NATAP)	http://www.natap.org
National Clearinghouse for Alcohol and Drug Information	http://ncadi.samhsa.gov
National HIV/AIDS Clinicians' Consultation Center (NCCC)	http://www.nccc.ucsf.edu
National Institute of Allergy and Infectious Diseases (NIAID)	http://www3.niaid.nih.gov/
National Institutes of Health (NIH) Office of AIDS Research (OAR)	http://www.oar.nih.gov
National Library of Medicine HIV/AIDS Information	http://sis.nlm.nih.gov/hiv.html
National Minority AIDS Council	http://www.nmac.org
National Prevention Information Network	http://www.cdcnpin.org
New York Academy of Medicine, HIV/AIDS Information Outreach Program	http://www.aidsnyc.org
NIAID Division of Acquired Immunodeficiency Syndrome	http://www3.niaid.nih.gov/about/organization/daids/
Partners in Information Access for the Public Health Workforce—HIV	http://phpartners.org/hp/hiv.html
Positive.org	http://www.positive.org/Home
Project Inform	http://www.projinf.org
PubMed	http://pubmed.gov
PubMed Training Manual (NLM) (select PubMed)	http://www.nlm.nih.gov/pubs/web_based.html
PubMed Tutorial (NLM)	http://www.nlm.nih.gov/bsd/disted/pubmedtutorial/
Rural Center for AIDS/STD Prevention	http://www.indiana.edu/~aids
San Francisco AIDS Foundation	http://www.sfaf.org
Social Security Administration	http://www.ssa.gov

- The TB/HIV Research Laboratory (Brown University)** <http://tbhiv.biomed.brown.edu/>
- U.S. Department of Health and Human Services** <http://www.os.dhhs.gov>
- U.S. Food and Drug Administration, HIV and AIDS** <http://www.fda.gov/oashi/aids/hiv.html>
- World Health Organization, Tuberculosis** <http://www.who.int/tb/en/>
- Yahoo AIDS/HIV Resources** http://dir.yahoo.com/health/diseases_and_conditions/aids_hiv

Savvy Health Surfing

Questions to Ask About Health-related Web Sites



Authority and Accuracy

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

Coverage

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

Currentness

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

Objectivity

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

Design Features

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

Contacting the National Library of Medicine for Database Assistance

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

Online Resources

Online Training Manuals	http://www.nlm.nih.gov/pubs/web_based.htm (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>

Instructors

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