

EQUAL ACCESS INITIATIVE:

HIV/AIDS Information Resources from the
National Library of Medicine



United States Conference on AIDS
November 7-8, 2007





Equal Access Initiative: HIV/AIDS Information Resources from the National Library of Medicine

A Specialized Training Course for
Grant Recipients of the National Minority AIDS Council
2006-2007 Equal Access Initiative Computer Grants

Presented at the
United States Conference on AIDS
Palm Springs, California
November 7 and 8, 2007



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

Preface

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

The *Equal Access Initiative: HIV/AIDS Information Resources from the National Library of Medicine* training is designed specifically for the **National Minority AIDS Council 2006–2007 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 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 class, participants will be able to:

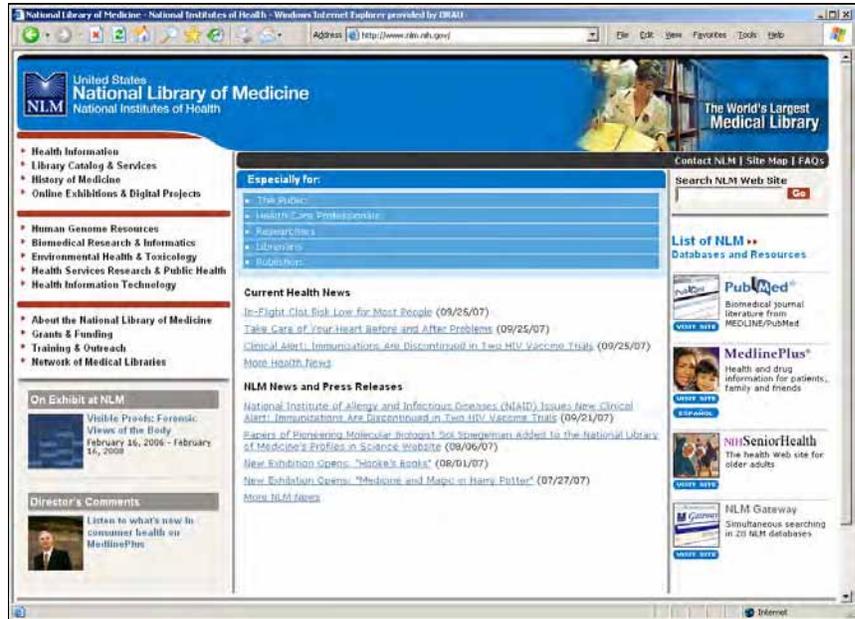
- ▶ Identify and evaluate quality, accurate, and authoritative online resources pertaining to HIV/AIDS and related medical conditions
- ▶ Demonstrate the ability to perform strategic search techniques in order to find HIV/AIDS treatment and prevention information
- ▶ Apply the skills and knowledge obtained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

Databases Covered in This Class

The following resources will be covered with time 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 17 million references to journal articles published in 5,000 journals in the fields of medicine and the life sciences.
- ▶ **MedlinePlus®**—a consumer health information resource, including full-text documents on over 740 medical topics, information on drugs, a medical encyclopedia, medical dictionaries, and directories of libraries, hospitals, and health care professionals.
- ▶ **NLM Gateway**— 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.
- ▶ **DIRLINE®**—a directory of more than 8,000 health-related organizations offering information and referral for many diseases and conditions.

Basic Internet Skills



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

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.



Let's look more closely at the URL. The basic components of a URL are the protocol name (**http://**), the server name (**nlm.nih.**), and the domain name (**gov**). This basic URL will get you to a Web site's home page. Note that not all URLs begin with "www." For example, the URL for NLM's MedlinePlus Web site is **http://medlineplus.gov**.

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



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

Domain Names

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

A state within the U.S.:

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

Some International domain names:

.au	Australia
.de	Germany
.it	Italy



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

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



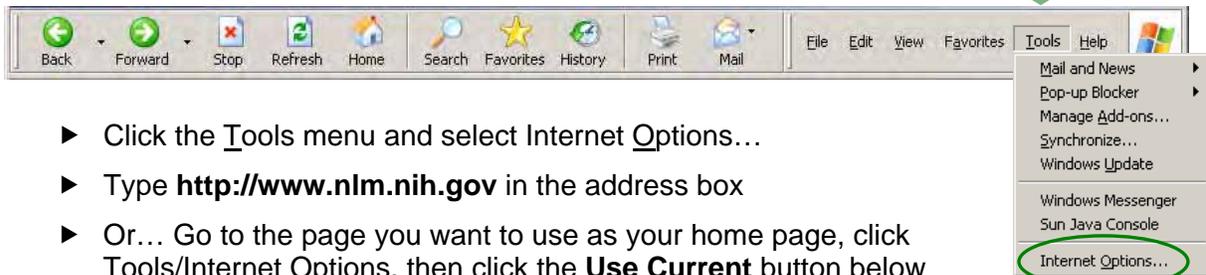
- Click... **Edit**, and then **Find** (on This Page)...to find key words on the page you are viewing
- View**, and then **Text Size**...to increase or decrease the text size on the page
- Favorites**...to bookmark a Web page or to organize your bookmarks
- Tools**, and then **Internet Options**...to customize your browser
- Help**...for help in how to use the Internet with your Web browser

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

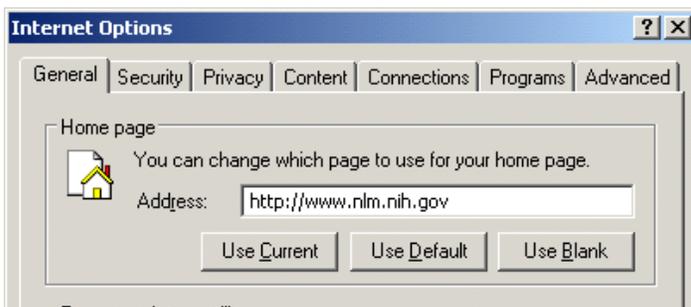


- ▶ Go to <http://www.nlm.nih.gov>
- ▶ Click the Favorites menu and select Add to Favorites

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



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



Printing Web Pages

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

Tips for Printing Web Pages:

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

About Adobe PDF and Adobe Reader

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



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

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



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

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

World Wide Web Search Tools

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

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

How to Construct a Search

Before executing a search, the first thing to do is to formulate your search question. For example, you could ask:

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

Next, identify the important concepts within the question:

- ▶ children, hiv, treatment

Then, identify the search terms to describe those concepts:

- ▶ children, hiv, treatment

Consider synonyms and variations of those terms:

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

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

- ▶ children hiv treatment

YOUR SEARCH STRATEGY

PLAN!

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

ACT!

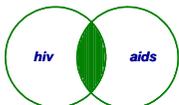
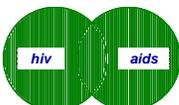
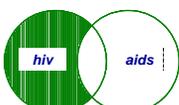
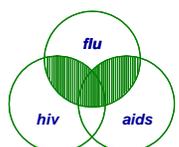
- ▶ Know which search tools to use.

REVIEW!

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

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>
- ProFusion** <http://www.profusion.com>
- qbSearch** <http://www.qbsearch.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>

Finding Quality Health Information on the Internet



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

Evaluating Internet Resources

The World Wide Web contains an abundance of free health information, available 24 hours per day. However, one must be cautious to evaluate that information because much of it is unreliable. 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**

For a complete list of the questions, see the pull-out “Savvy Health Surfing” reference card in the back of this workbook.

Additional Resources

For further information, please check out 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.

- Exercise 1: <http://www.thinktwice.com>
- Exercise 2: <http://www.hivpositive.com>
- Exercise 3: <http://www.healthfree.com>
- Exercise 4: <http://www.malepregnancy.com>
- Exercise 5: <http://www.drkoop.com>
- Exercise 6: <http://www.drugs.com>
- Exercise 7: <http://www.cancermed.com>
- Exercise 8: <http://www.thebody.com>
- Exercise 9: <http://www.thesidsfoundation.org>
- Exercise 10: <http://www.uoa.org>
- Exercise 11: <http://www.webmd.com>
- Exercise 12: http://www.dercums_data.tripod.com
- Exercise 13: <http://www.healthtouch.com>
- Exercise 14: <http://www.drclark.net>
- Exercise 15: <http://www.aaem.com>
- Exercise 16: <http://www.medicalacupuncture.org>
- Exercise 17: <http://www.amaasportsmed.org>
- Exercise 18: <http://www.bonetumor.org>
- Exercise 19: <http://www.biausa.org>
- Exercise 20: <http://www.connectforkids.org>

AIDSinfo



<http://aidsinfo.nih.gov>

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 Web site is organized around six main categories:

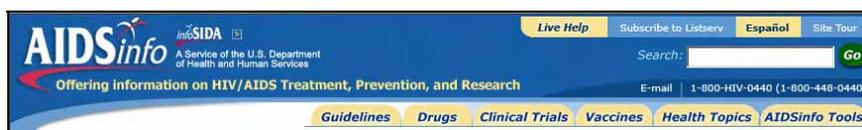
- ▶ **Guidelines**—Federally approved HIV treatment and prevention guidelines for HIV infection and AIDS-related illnesses, including the prevention of HIV transmission from occupational exposure and mother-to-child transmission during pregnancy.
- ▶ **Drugs**—Records for FDA-approved and investigational 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.
- ▶ **AIDSinfo Tools**—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 tab:



AIDSinfo Drugs Database

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

AIDSinfo Clinical Trials Database

Search on words, conditions, drugs, locations, or search alphabetically.

Browsing *AIDSinfo*

Browse *AIDSinfo* alphabetically, categorically, or by frequently requested topics.

Additional Resources

For further information, please check out 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

<http://aidsinfo.nih.gov>

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

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 HTML Version (1 KB) to open and review the document

Review the document and close the CDC window





These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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.

Keyboard Help:

Click	Perinatal Guidelines under “ Maternal-Child Transmission “ in the menu bar to the left
Click	PDF Version (8.6 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 Guideline News Topic. Next, subscribe to the AIDSinfo Listserv.

Keyboard Help:

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

Exercise 3: Perform a guideline search of your choice. Return to the AIDSinfo home page by clicking the AIDSinfo logo in the top left corner of the page.

Drugs

Exercise 4: What class of HIV/AIDS drug is FTC? Are there any other names for it? Compare the patient version to the health professional version.

Keyboard Help:

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

Exercise 5: Should tenofovir DF be taken with food? Use the alphabetical search feature.

Keyboard Help:

Click	<u>I</u> under <i>Alphabetical Search</i>
Click	<u>Tenofovir disoproxil fumarate</u>
Click	Health Professional Version
	 Detailed Information provided only in health professional version.
Scroll to	the <u>Drug and Food Interactions</u> section and review the information
Click	the Drugs tab to return to the <i>AIDSinfo Drug Database</i>

Exercise 6: The FDA recently approved Maraviroc an antiretroviral drug. What are the most common side effects associated with Maraviroc?

Keyboard Help:

Type	maraviroc in the Drug Name search box
Click	the Search button
Click	<u>Maraviroc (Selzentry)</u>
Review	the information in the Possible Side Effects section
Click	the Drugs tab at the top of the page to prepare for the next search

Exercise 7: Using the alphabetical search feature, review the Spanish patient record for Darunavir.

Keyboard Help:

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

Exercise 8: View the list of FDA-approved and investigational entry and fusion inhibitors. Review the clinical trial status of one of the investigational drugs.

Keyboard Help:

- 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
- Click your browser’s **Back** button to return to *AIDSinfo*
- Click the **Drugs** tab to return to the Drug Database search page

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**”
 Note the drug names that appear below the link in the menu bar
- 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
- Click your browser’s **Back** button to return to *AIDSinfo*
- Click the **Drugs** tab to return to the Drug Database search page

Exercise 9: What is the maximum recommended daily dose of Nevirapine? Review both the patient and health professional versions of the record for this drug.

Keyboard Help:

- 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

Clinical Trials**Exercise 10: Find all HIV/AIDS trials in your home state.**

Keyboard Help:

- 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 the study of your choice
- Click your browser's **Back** button to return to *AIDSinfo*
- Click the **Clinical Trials** tab to prepare for the next search

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

Keyboard Help:

- Select Kidney disease from the **Include the condition** pull-down menu
- Click the **Submit** button at the bottom of the page
- Review the study of your choice
- Click your browser's **Back** button to return to *AIDSinfo*
- Click the **Clinical Trials** tab to prepare for the next search

Exercise 12: Are there any clinical trials studying pregnancy and transmission of HIV?

Keyboard Help:

Type	HIV Transmission in the “Contain the word(s)” search box under Create your Own Search
Select	<u>Pregnancy</u> from the Include the Condition pull-down menu
Click	the Submit button at the bottom of the page
Review	the list of studies retrieved
Click	the Clinical Trials tab to prepare for the next search

Exercise 13: Are there any clinical trials studying Kaposi’s sarcoma in children and adolescents?

Keyboard Help:

Select	<u>Kaposi’s sarcoma</u> from the “Include the condition” pull-down menu
Click	the checkbox next to <u>Child and Adolescent Trials</u>
Click	the Submit button at the bottom of the page
Review	the list of studies retrieved
Click	the Clinical Trials tab to prepare for the next search

Exercise 14: Browse the listing of studies investigating the use of alternative and complementary medicine.

Keyboard Help:

Click	<u>Alternative/Complementary medicine</u> to the left of the page under Browse Trial by Category
Review	the studies of your choice

ClinicalTrials.gov



<http://clinicaltrials.gov>

ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers.

ClinicalTrials has information about

- ▶ A trial's purpose
- ▶ Who may participate
- ▶ Locations where trials are held
- ▶ Contact information for the trial
- ▶ Whether or not the trial is currently recruiting for participants

Searching ClinicalTrials.gov

To search ClinicalTrials.gov, click **Search for Clinical Trials** on the home page, and type your search term in the search box on the Basic Search page. 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.

The screenshot shows the ClinicalTrials.gov search page. At the top, there are navigation tabs for 'Basic Search', 'Advanced Search', 'Studies by Topic', and 'Studies on Map'. Below these, a section titled 'Fill in any or all of the fields below.' contains several search criteria:

- Search Terms:** A text input field.
- Recruitment:** A dropdown menu set to 'All Studies'.
- Study Type:** A dropdown menu set to 'All Studies'.
- Targeted Search:** Fields for 'Conditions', 'Interventions', 'Sponsors', and 'Study IDs'.
- Locations:** Three sets of dropdown menus for 'State' and 'Country'.
- Additional Criteria:** Checkboxes for 'Age Group' (Child, Adult, Seniors), 'Phase' (I-IV), and 'Funded by' (NIH, Industry, etc.).
- List Received:** A date range selector from 'From' to 'To'.

Buttons for 'Search', 'Basic Search', and 'Help' are visible throughout the interface.

Browsing ClinicalTrials.gov

ClinicalTrials.gov can be browsed by the condition or disease, the drug intervention, the sponsors of the trial and the location of the trial. In addition, the trials in a particular location can be browsed via an interactive map.

Additional Resources

For further information on ClinicalTrials.gov, please check out 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

<http://clinicaltrials.gov>

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

Go to <http://clinicaltrials.gov>

Click **Search for Clinical Trials**



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

Home Search Study Topics Glossary

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

- Search for Clinical Trials**
Find trials for a specific medical condition or other criteria in the ClinicalTrials.gov registry. ClinicalTrials.gov currently has 45,678 trials with locations in 151 countries.
- Investigator Instructions**
Get instructions for clinical trial investigators/sponsors about how to register trials in ClinicalTrials.gov.
- Background Information**
Learn about clinical trials and how to use ClinicalTrials.gov, or access other consumer health information from the US National Institutes of Health.

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

Study Topics:
[List by Condition](#)
[List by Drug Intervention](#)
[List by Sponsor](#)
[List by Location](#)

Type **nelfinavir cancer** in the search box

Click the **Search** button



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

Home Search Study Topics Glossary

Basic Search **Advanced Search** Studies by Topic Studies on Map

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

Example: Heart Attack AND Los Angeles

nelfinavir cancer

[Advanced Search](#) [Help](#)

Review record(s) of your choice

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

Home Search **Study Topics** Glossary

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

Found 13 studies with search of: nelfinavir cancer

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

- Recruiting** **Nelfinavir in Treating Patients With Metastatic, Refractory, or Recurrent Solid Tumors**
 Conditions: Colorectal Cancer; Gastrointestinal Carcinoid Tumor; Head and Neck Cancer; Islet Cell Tumor; Lung Cancer; Metastatic Cancer; Neuroendocrine Carcinoma of the Skin; Ovarian Cancer; Pheochromocytoma; Sarcoma; Unspecified Adult Solid Tumor, Protocol Specific
 Interventions: Drug: roflumilast hydrochloride; Drug: nelfinavir mesylate; Procedure: biological markers; Procedure: diagnostic test; Procedure: enzyme inhibitor therapy; Procedure: gene expression; Procedure: immunoenzyme techniques; Procedure: immunological laboratory methods; Procedure: mass spectrometry; Procedure: pharmacological studies; Procedure: polymerase chain reaction; Procedure: protein expression
- Recruiting** **Nelfinavir Mesylate in Treating Patients With Recurrent, Metastatic, or Unresectable Liposarcoma**
 Condition: Sarcoma
 Interventions: Drug: nelfinavir mesylate; Procedure: antiviral therapy
- Completed** **A Pilot, Open-Label, Phase II, Randomized Study to Determine the Effects of Viracept on the Outcome of Cutaneous and Mucosal KS in AIDS Patients With CD4 <= 500 Cells/mm3**
 Conditions: Sarcoma, Kaposi; HIV Infections
 Intervention: Drug: Nelfinavir mesylate

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

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

Home **Search** Study Topics Glossary



These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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

Keyboard Help:

- 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?

Keyboard Help:

- 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.

Keyboard Help:

- 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.

Keyboard Help:

- 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.

Keyboard Help:

- 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
- 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.

Keyboard Help:

- 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?

Keyboard Help:

- 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

MEDLINE/PubMed



<http://pubmed.gov>

PubMed is the interface to **MEDLINE**, the National Library of Medicine's premier biomedical literature database. PubMed features include:

- ▶ Updated daily
- ▶ Clinical query filter
- ▶ Special queries directory
- ▶ Related articles
- ▶ Links to other NLM resources
- ▶ Links to full-text journal articles at Web sites of participating publishers
- ▶ PubMed Central

Searching PubMed

To search PubMed, type the key concepts in the search box. To search for authors, use the author format: last name, first initial, second initial (i.e., smith ja).



Other search options utilize the PubMed Services. To search by a journal title, use the Journals Database. To search using the controlled vocabulary, use the MeSH Database. To search for specific types of references, use either Clinical Queries or Special Queries.

The PubMed Sidebar

The PubMed sidebar contains links to PubMed features, including tutorials and help resources, other PubMed search services, links to other NLM databases, and information on utilizing My NCBI and ordering documents.

Register for My NCBI

My NCBI is an easy way to STORE and UPDATE searches on topics of continuing interest.

- ▶ Store your searches in MY NCBI
- ▶ Update your stored search(es) to see what's new
- ▶ Set up e-mail alerts for new content
- ▶ Display links to Web resources (Link Out)
- ▶ Choose filters that group search results
- ▶ Click My NCBI in the left sidebar under **PubMed Services**

How to Order Documents

Loansome Doc is an automated document ordering program, accessible directly from PubMed. Users must register to use this service.

- ▶ Allows you to order the full text of an article from a Loansome Doc participating library
- ▶ Click Order Documents in the left sidebar under **Related Resources**

Additional Resources

For further information, please check out these additional resources:

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





PubMed Search Exercises

<http://pubmed.gov>

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

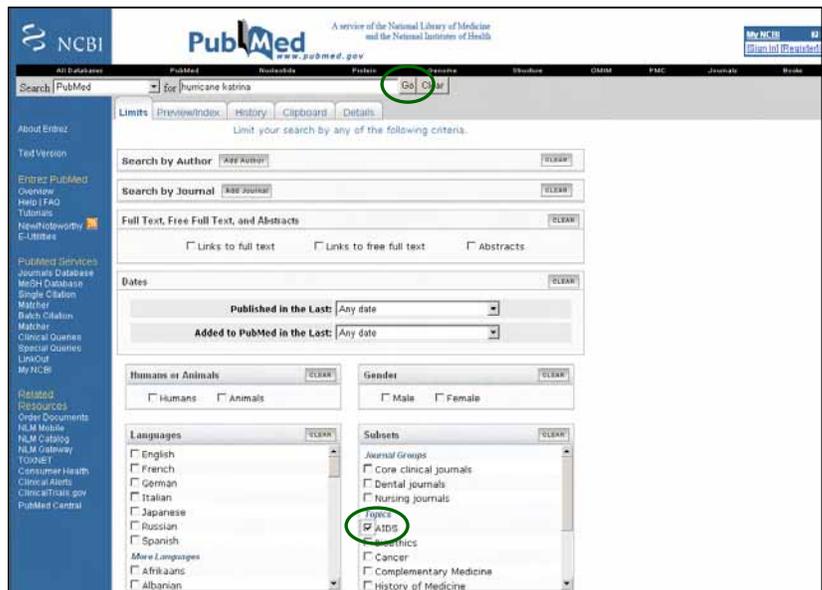
Go to <http://pubmed.gov>

Type **hurricane Katrina** in the search box

Click the **Limits** tab

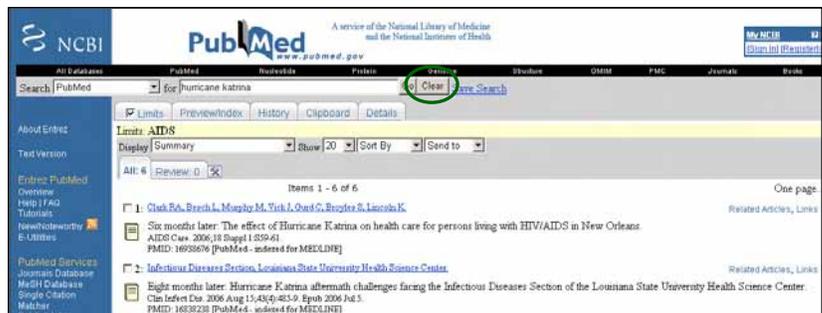
Click the checkbox for the AIDS topic in the **Subsets** limit box

Click the **Go** button to the right of the search box or at the bottom of the page



Review the citation(s) retrieved

Click the **Clear** button to the right of the search box to prepare for a new search





These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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

Keyboard Help:

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
Click	the Clear button to the right of the search box
	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.

Keyboard Help:

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
Click	the Clear button to prepare for the next search

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

Keyboard Help:

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)
Click	the Clear button to prepare for the next search

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.

Keyboard Help:

Type	zidovudine mother child transmission in the search box
Click	the Limits tab
Select	<u>5 years</u> from the Published in the Last pull-down menu
Select	<u>English</u> in the Languages box
Click	the Go button
Review	the citation(s)
Click	the Clear button to prepare for the next search

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?

Keyboard Help:

Type	cytomegalovirus retinitis foscarnet ganciclovir in the search box
Click	the Limits tab
	 Note that all the limits previously selected remain selected. For this search, deselect <u>English</u> in the Languages box and select <u>Any date</u> from the Published in the Last pull-down menu.
Select	<u>All Child: 0-18 years</u> in the Ages box
Click	the Go button
Review	the citation(s)
Click	the Clear button to prepare for the next search

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

Keyboard Help:

Type	Stigma in the search box
Click	the Limits tab
Click	the Add Author button to the right of “ Search by Author: ”
Type	bogart L in the Author Name search box



Note that all the limits previously selected remain selected. Deselect the **Ages** limit: All Child: 0-18 years.

Click the **Go** button

Click the author's name to view additional articles by the author

Click the **Clear** button to prepare for the next search



You do not need to deselect Limits after an author search.

Exercise 7: Research articles on the subject of discharge planning for HIV-positive prisoners. Next, e-mail an abstract to yourself in text format.

Keyboard Help:

Type **discharge planning prisoners** in the search box

Click the **Go** button

Click the checkbox to the left of the 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

Click the **Clear** button to prepare for the next search

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

Keyboard Help:

Click PubMed Central in the left sidebar under "Related Resources"

Type **improved adherence haart** in the search box

Click the **Go** button and review the citation(s) retrieved

Click PubMed in the list of databases above the search box to return to the PubMed home page

Alternate Method:

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)

- Click the **Clear** button to the far right of the search box
- 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 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.

Keyboard Help:

- 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 User Name 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 and review the citations

MedlinePlus



<http://medlineplus.gov>

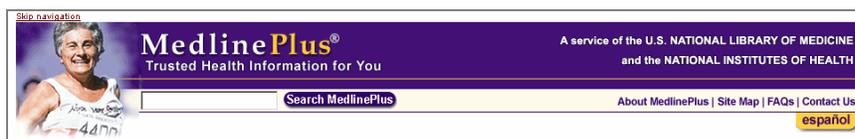
MedlinePlus is the National Library of Medicine's answer to consumer-friendly, authoritative health information. It contains a wealth of information from trusted sources, lists of hospitals and physicians, extensive information on prescription and non-prescription drugs, interactive tutorials on many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

Features offered by MedlinePlus include:

- ▶ Easy-to-read language
- ▶ Easy-to-navigate pages
- ▶ Trustworthy, reliable sources
- ▶ No advertising or endorsements
- ▶ Updated daily
- ▶ Interactive tutorial
- ▶ Spanish version: <http://medlineplus.gov/spanish>

Searching MedlinePlus

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



Browsing MedlinePlus

Browse MedlinePlus alphabetically, categorically, or by frequently requested topics.

The screenshot shows the MedlinePlus search page. At the top, there is a search bar with the text "Find your topic by first letter:" and a navigation bar with letters A through Z and "XYZ List of All Topics". Below this, the page is organized into three main columns of categories:

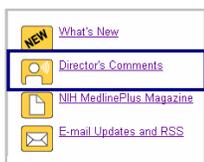
- Body Location/Systems:** Blood, Heart and Circulation; Bones, Joints and Muscles; Brain and Nerves; Digestive System; Ear, Nose and Throat; Endocrine System; Eyes and Vision; Immune System; Kidneys and Urinary System; Lungs and Breathing; Mouth and Teeth; Skin, Hair and Nails; Female Reproductive System;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

At the bottom right, there is a section titled "Health Check Tools" which includes buttons for "Frequently Requested Topics", "Interactive Health Tutorials", "Easy to Read", "Health Check Tools", and "For Low Vision Users".

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).

NLM Director's Comments



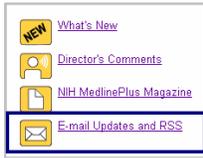
Click the [Director's Comments](#) link on the home page (bottom right) to listen to a weekly update by Donald A.B. Lindberg, M.D., Director of the National Library of Medicine. Updates are distributed as free podcasts. A podcast is a digital audio broadcast for direct listening on a computer or by subscription via a download to a personal audio player.

MedlinePlus Magazine



Click the [NIH MedlinePlus Magazine](#) link on the home page (bottom right) to subscribe to this free quarterly guide for patients and their families. Current and back issues are also available on the Web site for downloading.

MedlinePlus E-mail Lists and RSS Feeds



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

Additional Resources

For further information on MedlinePlus, please check out 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

<http://medlineplus.gov>

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

Go to <http://medlineplus.gov>

Click **Health Topics**



The screenshot shows the MedlinePlus homepage with a search bar at the top. The left sidebar contains several categories, with 'Health Topics' being the first and highlighted. Other categories include 'Drugs & Supplements', 'Medical Encyclopedia', 'Dictionary', 'News', 'Directories', 'Go Local', and 'Other Resources'. The main content area features 'Current Health News', 'Featured Site', and 'In the Spotlight' sections. The right sidebar includes 'Interactive Tutorials', 'ClinicalTrials.gov', 'NIH Senior Health', 'Surgery Videos', and 'What's new on MedlinePlus'.

Click **A**



The screenshot shows the 'Find your topic by first letter' page. At the top, there is a navigation bar with letters A through Z and 'XYZ List of All Topics'. Below this, the page is organized into three columns of topic lists. The first column is 'Body Location/Systems' and includes links for Blood, Heart and Circulation; Bones, Joints and Muscles; Brain and Nerves; Digestive System; Ear, Nose and Throat; Endocrine System; Eyes and Vision; Immune System; Kidneys and Urinary System; Lungs and Breathing; Mouth and Teeth; Skin, Hair and Nails; Female Reproductive System; and Male Reproductive System. The second column is 'Disorders and Conditions' and includes links for Cancers; Genetics/Birth Defects; Infections; Injuries and Wounds; Mental Health and Behavior; Metabolic Problems; Poisoning, Toxicology, Environmental Health; Pregnancy and Reproduction; and Substance Abuse Problems. The third column is 'Demographic Groups' and includes links for Children and Teenagers; Men; Population Groups; Seniors; and Women. Below these columns, there is a 'Health and Wellness' section with links for Fitness and Exercise; Food and Nutrition; Health System; Personal Health Issues; Safety Issues; Sexual Health Issues; Social/Family Issues; and Wellness and Lifestyle. At the bottom right, there are four buttons: 'Frequently Requested Topics', 'Interactive Health Tutorials', 'Easy to Read', and 'For Low Vision Users'.



These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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

Keyboard Help:

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.

Keyboard Help:

Click	the Health Topics tab
Click	<u>A</u>
Click	<u>Alternative Medicine</u> from the alphabetical list
Click	<u>Are You Considering Using Complementary and Alternative Medicine (CAM)?</u> 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.

Keyboard Help:

Click	the Health Topics tab
Click	<u>A</u>
Click	<u>AIDS</u> from the alphabetical list
Click	<u>Children</u> under For You to the right
Click	<u>Children and HIV</u> (New Mexico AIDS Education and Training Center) under Children
Review	the information

- Close the AIDS InfoNet window and return to the MedlinePlus page
- 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.

Keyboard Help:

- 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?

Keyboard Help:

- 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: Find the MedlinePlus Hepatitis C page and view the Interactive Tutorial.

Keyboard Help:

- 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 7: Using the Medical Encyclopedia, locate an illustration depicting Kaposi's sarcoma.

Keyboard Help:

- 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 8: 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?

Keyboard Help:

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

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

NLM Gateway



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

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. It allows users of NLM services to initiate searches from one web interface, providing "one-stop searching" for many of NLM's information resources or databases. The Gateway also provides a search interface for meeting abstracts.

Searching NLM Gateway

To search the NLM Gateway, type your search term or phrase into the search box at the top of every page. Limit a search to a specific category or subset such as AIDS or Bioethics, restrict to English language items, or limit by publication date. Gateway processes search terms through a spell checker and offers suggested corrections.



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

- ▶ **Bibliographic Resources**—Include MEDLINE®/PubMed®, Meeting Abstracts 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), Developmental and Reproductive Health (DART), 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.

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 for the query 'hiv aids'. The page features a search bar with the query 'hiv aids' and a 'Search' button. Below the search bar, there are navigation tabs: Term Finder, Limits/Settings, Search Details, History, Locker, and Contact Us. The main content area displays a 'Results Summary: 196874 records found' and a 'Bookmark this Search' link. The results are organized into three categories: Bibliographic Resources, Consumer Health Resources, and Other Information Resources. Each category lists various databases and the number of records found for each.

Category	Database	Records Found
Bibliographic Resources	MEDLINE/PubMed - journal citations, abstracts	108895
	NLM Catalog - books, AVs, serials	11383
	Bookshelf - full text biomedical books	1795
	TOXLINE Subset - toxicology citations	4898
Consumer Health Resources	MedlinePlus - Health Topics	73
	MedlinePlus - Drug Information	500
	MedlinePlus - Medical Encyclopedia	97
	MedlinePlus - Current Health News	15
Other Information Resources	HSRProj - Health Services Research Projects	195
	OMIM - Online Mendelian Inheritance in Man	46
	HSDB - Hazardous Substances Data Bank	58
	IRIS - Integrated Risk Information System	0
	ClinicalTrials.gov	3198
	DIRLINE - Directory of Health Organizations	365
Genetics Home Reference	14	
Household Products Database	0	
ITER - International Toxicity Estimates for Risk	0	
GENE-TOX - Genetic Toxicology (Mutagenicity)	0	
CCRIS - Chemical Carcinogenesis Research Information System	0	
Profiles in Science	421	

The NLM Gateway Locker

The 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 on NLM Gateway, please check out these additional resources:

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



NLM Gateway Search Exercises

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

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

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. The search term "hiv aids treatment" is entered in the search box. The page displays a "Results Summary" indicating 90060 records found. The results are categorized into three main groups: Bibliographic Resources, Consumer Health Resources, and Other Information Resources. Each category lists several resources with the number of records found for each. For example, under Bibliographic Resources, MEDLINE/PubMed has 58235 records, and under Other Information Resources, HSRProj has 123 records.

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** under **Other Information Resources** and review record(s) of your choice, then click the **Results** button to the left of the page to return to the search results page.

This screenshot shows the search results page for "hiv aids treatment". The results are displayed in a table format. The first column shows the number of records for each resource, and the second column shows the resource name. The HSRProj resource is highlighted. Below the table, there is a "Results" section showing the details of the selected HSRProj record, including the title "Discrimination, health care attitudes and HIV treatment" and the author "Bogart, Laura M."

Click “**Clear**” to the right of the **Search** button to prepare for the next search.



 These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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.

Keyboard Help:

- Type **flu vaccine viral loads** in the search box
- Click the **Limits/Setting** button
- Select AIDS from the subset pull-down menu and click “**Apply**”
- Click the **Search** button
- Click **MEDLINE/PubMed – journal citations, abstracts** 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 **ClinicalTrials.gov** under **Consumer Health Resources**
- Review record(s) of your choice
- Click “**Clear**” to the right of the search box to prepare for the next search

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

Keyboard Help:

- 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
- Click “**Clear**” to the right of the search box to prepare for the next search

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

Keyboard Help:

- Click the **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
- Select Put in Locker from the “Select an Action” pull-down menu and click Go

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

DIRLINE



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

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.

DIRLINE contains over 8,000 records and focuses primarily on health and biomedicine, although it also provides limited coverage of some other special interests, 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

Topics include HIV/AIDS, maternal and child health, most diseases and conditions (including genetic and other rare diseases), health services research, and technology assessment.

Searching DIRLINE

- ▶ Use general subject terms when searching DIRLINE (such as disease or condition, or location of a resource)
- ▶ Keep the search simple to maximize retrieval
- ▶ Refine your search by including Medical Subject Headings (MeSH®)
 - Click the box beside “MESH Headings/Keywords”

Browsing DIRLINE

Use the A to Z search feature.

- ▶ Click [A to Z List of Health Organizations](#) to the right under **Support Pages**

Additional Resources

For further information on DIRLINE, please check out these additional resources:

- ▶ DIRLINE Fact Sheet: <http://www.nlm.nih.gov/pubs/factsheets/dirlinfs.html>
- ▶ Prescription for Success: Consumer Health Information on the Internet: <http://nmlm.gov/training/consumer/prescription>



DIRLINE Search Exercises

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

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

Go to

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

Type **hiv aids** in the search box

Click the **Search** button



Directory of Health Organizations
SIS Specialized Information Services

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

SIS Home >

Search DIRLINE

hiv aids **Search** **Clear**
(e.g. aging chronic diseases, scleroderma)

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

Fields: (if none checked, all fields will be searched.)
 Organization name or acronym
 MeSH Headings/Keywords

Select records containing:
 Only organizations with toll-free numbers
 Only organizations with services for the hearing impaired

Search **Browse the Index**

Health Hotlines
Toll-free numbers for over 300 organizations

Other NLM Resources
 MedlinePlus®
 PubMed
 NLM Gateway
 LocatorPlus

Support Pages
 Help
 Fact Sheet

Review record(s) of your choice by clicking the link(s)

Directory of Health Organizations
SIS Specialized Information Services

DIRLINE Search Results

hiv aids **Search** **Clear**

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

Organization Names are sorted in ascending order.

Select Record	Organization Name
<input type="checkbox"/>	1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
<input type="checkbox"/>	2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme - United Nations
<input type="checkbox"/>	3 HIV/AIDS Ministry Network - General Board of Global Ministries Health and Welfare Ministries - United Methodist Church
<input type="checkbox"/>	4 Division of HIV/AIDS Prevention - National Center for HIV, STD, and TB Prevention - Centers for Disease Control and Prevention - U.S. Department of Health and Human Services

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

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



Directory of Health Organizations
SIS Specialized Information Services

DIRLINE

hiv aids **Search** **Clear**

Item 7 of 367

HIV/AIDS Department
World Health Organization

20, Ave. Appia
 CH-1211 Geneva 27
 Switzerland

Telephones:
 +41 22 791 25 14
 +41 22 791 48 34

Search Results
 Download
 New Search
 Modify Search
 Details
 History

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



The screenshot shows the 'Directory of Health Organizations' search results page. The search term 'hiv aids' is entered in the search box. The results are sorted by relevancy. The sidebar on the left has a 'New Search' button highlighted. The main content area shows a list of organizations with checkboxes for selection.

Select Record	Organization Name
<input type="checkbox"/>	1 Ministry for HIV/AIDS - Office for Health and Wholeness Advocacy - United Church of Christ
<input type="checkbox"/>	2 HIV/AIDS Group - Bureau for Development Policy - United Nations Development Programme - United Nations
<input type="checkbox"/>	3 HIV/AIDS Ministry Network - General Board of Global Ministries Health and Welfare Ministries - United Methodist Church
<input type="checkbox"/>	4 Division of HIV/AIDS Prevention - National Center for HIV, STD, and TB Prevention - Centers for Disease Control and Prevention - U.S. Department of Health and Human Services

These exercises have been designed with keyboard help to document the steps in the search process and to represent the most efficient search method(s) for each exercise.

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

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

Keyboard Help:

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

Keyboard Help:

- 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 3: Are there any housing resources for people infected with HIV?

Keyboard Help:

- | | |
|--------|---|
| 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 4: Find records for the various Centers for Disease Control and Prevention (CDC) HIV/AIDS programs. Save the records that are of interest to you.

Keyboard Help:

- | | |
|-------|---|
| 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 5: Find HIV/AIDS-related organizations that focus their efforts on minority groups. Next, limit the search to organizations with services for the hearing impaired.

Keyboard Help:

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

Exercise 6: 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.

Keyboard Help:

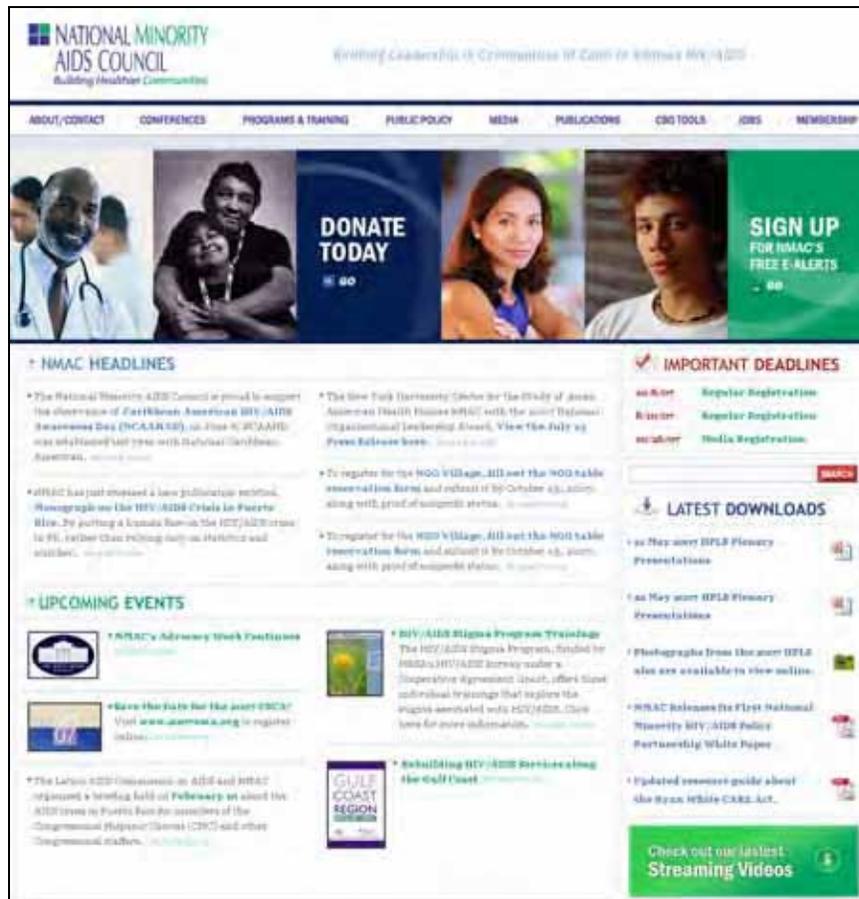
- Click the **Browse the Index** button
- Type **gay** in the search box
- Click the **Search** button
- Click the checkbox for the index term “gay”
- Click the **Select** button above the table
- Click the **Sort** button on the left
- Click **Descending** and then the **Sort** button
- Review record(s)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

Exercise 7: 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.



Programs and Services

- ▶ Organizational Development
- ▶ Prison Initiative
- ▶ HIV/AIDS Stigma Initiative
- ▶ Supporting Networks of HIV Care (SNHC) by Enhancing Primary Medical Care (EPMC)
- ▶ Women of Color Leadership
- ▶ Government Relations and Public Policy

Tools and Resources

- ▶ NMAC Lifeline E-Newsletter
- ▶ NMAC in Action Alerts
- ▶ NMAC/POZ AIDS Services Directory
- ▶ Grant Writing Tutorial
- ▶ Online Publications Store (Order hard copies of NMAC publications free of charge)
- ▶ Electronic 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.

Welcome

Updates
About OAR
Public Information
Meetings
Web Broadcasts
Minority Initiatives
Links
NIH Home
NIH Visitors/Security

OFFICE OF
AIDS
RESEARCH

World AIDS Day
December 1st
NIH World AIDS Day Awards

The Office of AIDS Research is located within the Office of the Director of NIH and is responsible for the scientific, budgetary, legislative, and policy elements of the NIH AIDS research program.

Web Broadcasts

Minority Initiatives

Public Information

- ▶ NIH Plan for HIV-Related Research

Web Broadcasts

- ▶ Video Library
- ▶ Conference
- ▶ Meet the Experts

Minority Initiatives

- ▶ Community Outreach
- ▶ Formal Collaborative Program

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.

The image shows a screenshot of the CDC.gov website. Several callout boxes with a blue and white checkered border point to specific features:

- A box labeled 'A-Z Index' points to the search bar and the A-Z Index grid.
- A box labeled 'Top 20 at CDC.gov' points to the 'Top 20 at CDC.gov' link in the search results area.
- A box labeled 'Publications' points to the 'PUBLICATIONS' section, which lists items like 'Emerging Infectious Diseases (EID)', 'Morbidity and Mortality Weekly Report (MMWR)', and 'Preventing Chronic Disease (PCD)'.
- A box labeled 'Tools & Resources' points to the 'TOOLS & RESOURCES' section, which includes a 'BMI Calculator'.

 The website header includes the CDC logo, 'Your Online Source for Credible Health Information', and language options for Spanish and German. The main content area features a 'Safe Youth. Health-e-Card' banner, 'Health & Safety Topics' (Diseases & Conditions, Healthy Living, Emergency Preparedness & Response, Environmental Health, Life Stages & Populations), 'DATA & STATISTICS' (Adults Ever Tested for HIV, United States, 2006), 'NEWS & EVENTS' (Public Health Is Global Health, US Declares Canine Rabies Free), 'ABOUT CDC', 'CDC Health Protection Goals', 'CDC For You', and 'PUBLICATIONS'.

Additional Highlights

- ▶ Health Disparities
<http://www.cdc.gov/omhd/Topic/HealthDisparities.html>
- ▶ Health Disparities: A Selected Bibliography
<http://www.cdc.gov/nccdphp/publications/healthdisparities/>
- ▶ Healthy Schools 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 Infectious Disease Information: <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.

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>

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

—Contains well-chosen and thorough Internet selections in biomedicine and extensive links to health professional organizations. Maintained by 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: <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>

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

Prevention Online (PREVLIN): <http://ncadi.samhsa.gov>

—Substance Abuse and Mental Health Services Administration's (SAMHSA) National Clearinghouse for Alcohol and Drug Information.

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 14 million citations in MEDLINE and about HIV/AIDS, with links to participating online journals.

Rural Assistance Center State Resources: <http://www.raconline.org/states>

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

Virtual Hospital: <http://www.vh.org>

—After 13 years of service, on January 1, 2006, Virtual Hospital / Virtual Children's Hospital ceased operations due to a lack of funding. However, much of Virtual Hospital / Virtual Children's Hospital content remains available online. The URL is still active as of April 20, 2007 and the page offers a list of recommended Web sites.

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 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 Info BBS Database	http://aidsinfobbs.org
AIDSinfo	http://www.aidsinfo.nih.gov
Aidsmap	http://www.aidsmap.com
AIDS.ORG	http://aids.org
AIDS Project Los Angeles	http://www.apla.org
AIDS Research Information Center	http://www.critpath.org/arc
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
AIDS Vaccines	http://www3.niaid.nih.gov/research/topics/HIV/vaccines/
aidsinfonyc.org	http://www.aidsinfonyc.org
All the Virology on the WWW	http://www.tulane.edu/%7Edmsander/garryfavweb1.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: A Multimedia AIDS & HIV Information Resource	http://www.thebody.com
California AIDS Clearinghouse	http://www.hivinfo.org
The 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)	http://www.cdc.gov
Center for Mental Health Research on AIDS (CMHRA)	http://www.nimh.nih.gov/dahbr/9a-as.cfm
CDC Division of HIV/AIDS Prevention	http://www.cdc.gov/hiv/dhap.htm
CDC National Prevention Information Network	http://www.cdcnpin.org
Critical Path AIDS Project	http://www.critpath.org
GMHC on the Web Gay Men's Health Crisis	http://www.gmhc.org
Healthfinder AIDS and HIV Infection	http://www.healthfinder.gov
Health Resources and Services Administration (HRSA) HIV/AIDS Bureau	http://www.hab.hrsa.gov
Health Services/Technology Assessment Text (HSTAT)	http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=hstat
HIV Databases (at LANL)	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
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 AIDS Service	http://www.hopkins-aids.edu
Joint United Nations Programme on HIV/AIDS	http://www.unaids.org
Marty Howard's HIV/AIDS HomePage	http://www.marty-howard.com

MedlinePlus—AIDS	http://medlineplus.gov/aids
Medscape HIV/AIDS	http://www.medscape.com/hiv
NATAP - National AIDS Treatment Advocacy Project	http://www.natap.org
National Clearinghouse for Alcohol and Drug Information	http://ncadi.samhsa.gov
National HIV/AIDS Clinicians' Consultation Center (NCCC)	http://www.ucsf.edu/hivcntr
National Institute of Allergy and Infectious Diseases	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
New Mexico AIDS Infonet	http://www.aidsinfonet.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 Manual (NLM)	http://www.nlm.nih.gov/pubs/web_based.html
PubMed Tutorial (NLM)	http://www.nlm.nih.gov/bsd/disted/pubmedtutorial/
Rural Center for AIDS/STD Prevention	http://www.indiana.edu/~aids
San Francisco AIDS Foundation	http://www.sfaf.org
Social Security Administration	http://www.ssa.gov
The TB/HIV Research Laboratory (Brown University)	http://tbhiv.biomed.brown.edu/
U.S. Census Bureau HIV/AIDS Surveillance	http://www.census.gov/ipc/www/hivaidsn.html

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 HIV/AIDS Resources http://dir.yahoo.com/health/diseases_and_conditions/aids_hiv

