

HIV/AIDS Information Resources from the National Library of Medicine





HIV/AIDS Information Resources
from the
National Library of Medicine

DISCLAIMER

Every effort has been made to ensure that the Web screen graphics and the steps in the search exercises in this document are accurate at the time of publication. However, as NLM's Web resources are updated continuously, there may be differences.

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



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

Preface

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

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

This manual contains a brief summary of NLM HIV/AIDS information resources followed by search exercises using realistic scenarios. Additional resources, selected for their quality and relevant content, are also included for your reference.

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Savvy Health Surfing (*a reference sheet*).....(*final page*)

Finding Quality Health Information on the Internet

The screenshot shows the homepage of the National Library of Medicine (NLM). The header features the NLM logo and the text "United States National Library of Medicine National Institutes of Health" and "The World's Largest Medical Library". A navigation menu on the left lists various categories such as "Health Information", "Library Catalog & Services", "History of Medicine", "Human Genome Resources", "Biomedical Research & Informatics", "Environmental Health & Toxicology", "Health Services Research & Public Health", "Health Information Technology", "About the National Library of Medicine", "Grants & Funding", "Training & Outreach", and "Network of Medical Libraries".

The main content area is divided into several sections:

- Especially for:** A list of user groups including "The Public", "Health Care Professionals", "Researchers", "Librarians", and "Publishers".
- Current Health News:** A list of recent news items with dates, such as "Almost Half of Adults Will Develop Knee Osteoarthritis by 85 (09/08/08)", "Exercise May Cut Risk of Various Cancers (09/08/08)", and "Going off Statins After Heart Attack Risky (09/08/08)".
- NLM News and Press Releases:** A list of news items, including "NLM to Serve as Host for ARL Career Enhancement Internship (08/19/08)", "IHSTSDO Seeking Proposals for Terminology Toolset (07/18/08)", and "Dr. Michael DeBaakey, Medical Trailblazer and Longtime Friend of NLM, Dies at 99 (07/16/08)".

On the right side, there is a search bar for the NLM web site, a "List of NLM Databases and Resources" section, and several featured links with "VISIT SITE" buttons, including "PubMed", "MedlinePlus", "NIH SeniorHealth", and "NLM Gateway".

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

Finding Quality Health Information on the Internet

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

The screenshot shows the NLM website homepage with the following elements:

- Header:** United States National Library of Medicine, National Institutes of Health. The World's Largest Medical Library.
- Navigation:** Health Information, Library Catalog & Services, History of Medicine, Online Exhibitions & Digital Projects.
- Search:** Search NLM Web Site with a Go button.
- Especially for:** The Public, Health Care Professionals, Researchers, Librarians, Publishers.
- Current Health News:** Low Hepatitis B Vaccination Rates Seen in U.S. Newborns (08/04/08), Number of New U.S. HIV Infections Gets Revised Upwards (08/04/08), Taking Depression to Heart (08/04/08), More Health News.
- NLM News and Press Releases:** IHTSDO Seeking Proposals for Terminology Toolset (07/18/08), Dr. Michael DeBakey, Medical Trailblazer and Lifetime.
- On Exhibit at NLM:** Against the Odds: Making a Difference in Global Health.
- Links:** List of NLM Databases and Resources (highlighted with a green arrow), PubMed, MedlinePlus, Household Products Database.

Link to
List of NLM's
Databases
& Resources

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

Evaluating Internet Resources

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

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

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

Additional Resources

For further information, we recommend these additional resources:

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



Savvy Health Surfing Exercises

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

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

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AIDSinfo

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

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

Live Help | Subscribe to Listserv | Español | Site Tour

Search: Go

E-mail: 1-800-HIV-0440 (1-800-449-0440)

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

GUIDELINES Updated

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

- ▶ Treatment / Prevention
- ▶ About the HIV Treatment Guidelines
- ▶ Download / Order
- ▶ PDA Tools

DRUGS

Fact sheets on HIV/AIDS-related drugs:

- ▶ Search the Drug Database
- ▶ FDA-Approved Drugs
- ▶ Investigational Drugs

CLINICAL TRIALS

Find research studies on drugs, vaccines, and other new or existing treatments for HIV/AIDS:

- ▶ Search for Clinical Trials
- ▶ New HIV/AIDS Trials

VACCINES

Information on preventative and therapeutic HIV vaccine research:

- ▶ Preventive HIV Vaccines
- ▶ Therapeutic HIV Vaccines
- ▶ Search for Vaccine Trials

HEALTH TOPICS

Find resources on HIV/AIDS-related topics:

- ▶ Resources
- ▶ Fact Sheets
- ▶ Microbicides: Drug Info and resources

MORE AIDSINFO NEW

More useful AIDSinfo features:

- ▶ RSS Feeds
- ▶ Live Help
- ▶ Order Publications
- ▶ PDA Tools
- ▶ HIV/AIDS Glossary
- ▶ Translation Tool

Highlights

- ▶ AIDSinfo At-a-Glance Issue 37 - September 5, 2008
- ▶ AIDSinfo At-a-Glance Issue 36 - August 29, 2008
- ▶ AIDSinfo At-a-Glance Issue 35 - August 22, 2008
- ▶ More...

Features

- ▶ Translation Tool
- ▶ Add AIDSinfo to Your Website!
- ▶ At-a-Glance Archive

Receive updates on HIV/AIDS news and treatment guideline updates.

Subscribe to Listserv

<http://aidsinfo.nih.gov>

AIDSinfo

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

The screenshot shows the AIDSinfo website homepage. At the top, there is a navigation bar with links for 'Live Help', 'Subscribe to Listserv', 'Español', and 'Site Tour'. Below this is a search bar and contact information. The main content area is organized into several categories: 'GUIDELINES Updated', 'DRUGS', 'CLINICAL TRIALS', 'VACCINES', 'HEALTH TOPICS', and 'MORE AIDSINFO'. A 'Highlights' section is also present. Annotations include a bracket on the left labeled 'Categories' pointing to the main content areas, a bracket on the right labeled 'Live Help' pointing to the 'Live Help' button and the 'infoSIDA' link, and two green arrows pointing to the 'Live Help' button and the 'infoSIDA' link.

<http://aidsinfo.nih.gov>

AIDSinfo is organized around six main categories:

- ▶ **Guidelines**—federally approved HIV treatment and prevention guidelines for HIV infection and AIDS-related illnesses, including the prevention of HIV transmission from occupational exposure, mother-to-child transmission during pregnancy, and prevention and treatment of HIV-related opportunistic infections
- ▶ **Drugs**—Records for FDA-approved and investigational HIV/AIDS-related drugs: Patient, health professional, and Spanish versions
- ▶ **Clinical Trials**—Information on federally and privately funded clinical trials evaluating experimental drugs and other therapies for adults and children at all stages of HIV infection
- ▶ **Vaccines**—Information on preventive and therapeutic HIV/AIDS vaccine research
- ▶ **Health Topics**—Resources for both patients and health care providers on HIV/AIDS-related topics

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

Other features include:

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

Searching AIDSinfo

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



Search Box
Navigation Tabs

AIDSinfo Drugs Database

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

AIDSinfo Clinical Trials Database

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

Additional Resources

For further information, we recommend these additional resources:

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



AIDSinfo Search Exercises

Search Example

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

Suggested Solution:

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



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

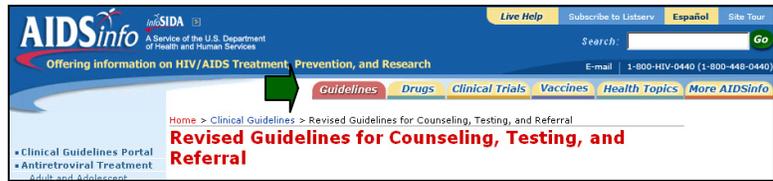


- ▶ Click the link HTML Version (1KB) to open and review the document



- ▶ Review the document and close the CDC window

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



Search Exercises

Search Exercises: Guidelines

Exercise 1: Locate guidelines for the use of antiretroviral therapy for the treatment of HIV-positive pregnant women. Compare the current guidelines to the guidelines from 1998.

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution

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

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

Search Exercises: Drugs

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Alternate Method:

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

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

Suggested Solution:

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

Search Exercises: Clinical Trials

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

This page is intentionally blank.

ClinicalTrials.gov

The screenshot shows the ClinicalTrials.gov homepage. At the top left is the logo "ClinicalTrials.gov" with the tagline "A service of the U.S. National Institutes of Health". To the right of the logo are navigation links for "Home", "Search", and "Study Topics", followed by a search input field. The main content area is divided into two columns. The left column contains a descriptive paragraph about the registry, followed by three main sections: "Search for Clinical Trials" (with a sub-description of 61,446 trials in 157 countries), "Investigator Instructions", and "Background Information". The right column contains "Resources" (with links for "Understanding Clinical Trials", "What's New", and "Glossary") and "Study Topics" (with links for "List studies by Condition", "List studies by Drug Intervention", "List studies by Sponsor", and "List studies by Location").

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

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

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 **61,446** trials with locations in **157** 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 studies by Condition](#)
- [List studies by Drug Intervention](#)
- [List studies by Sponsor](#)
- [List studies by Location](#)

<http://clinicaltrials.gov>

ClinicalTrials.gov

ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers, including the trial’s purpose, who may participate, locations where trials are held, contact information, and whether or not the trial is currently recruiting participants. The database currently contains information on more than 59,700 trials with locations in 157 countries.



<http://clinicaltrials.gov>

Searching ClinicalTrials.gov

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



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

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

Additional Resources

For further information, we recommend these additional resources:

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



ClinicalTrials.gov Search Exercises

Search Example

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

Suggested Solution:

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



The screenshot shows the ClinicalTrials.gov homepage. At the top right, there are links for Home, Search, Study Topics, and Glossary, along with a search box. The main content area includes a description of the site and a prominent blue button labeled 'Search for Clinical Trials'. To the right, there are sections for Resources (Understanding Clinical Trials, What's New, Glossary) and Study Topics.

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



The screenshot shows the search interface. There are tabs for Basic Search, Advanced Search, Studies by Topic, and Studies on Map. Below these is a search box with the text 'nelfinavir cancer' and a 'Search' button. An example search term 'Heart Attack AND Los Angeles' is shown above the search box. There are also links for Advanced Search and Help.

- ▶ Review record(s) of your choice

The screenshot shows the search results page. It displays 'Found 17 studies with search of: nelfinavir cancer'. There are tabs for List Results, Refine Search, Results by Topic, Results on Map, and Search Details. The first result is highlighted in green and is titled 'Nelfinavir, a Phase I/Phase II Rectal Cancer Study'. It lists conditions like Colorectal Cancer and Colorectal Tumors, and the intervention as Drug: nelfinavir.

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

This screenshot is identical to the previous one, but a green arrow points to the 'Search' link in the top navigation bar, indicating the next step in the exercise.

Search Exercises

These exercises have been designed with Suggested Solution 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?

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

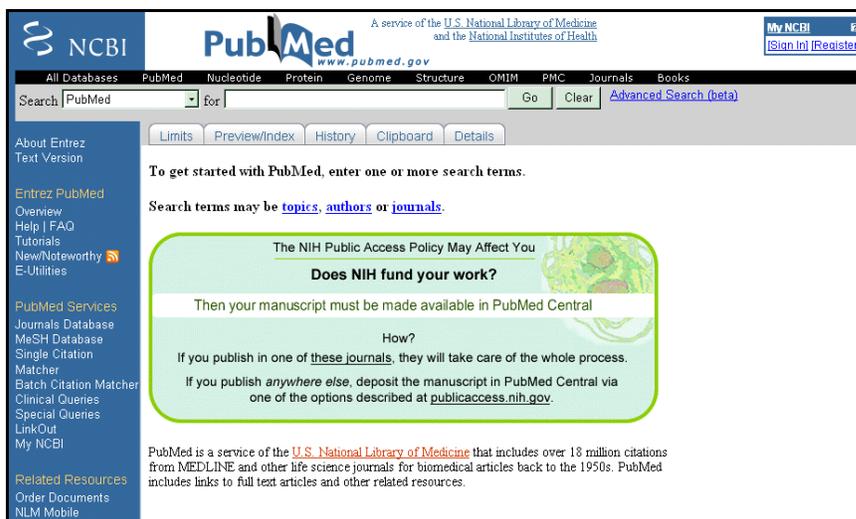
- Click the **Advanced Search** tab
- Type **hiv aids** in the Conditions box
- Select United States, California from the State pull-down menu
- Click the **Search** button and review record(s) of your choice
- Click the **Return to Search Results** button
- Click the **Results on Map** tab
- Click the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

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

Suggested Solution:

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

MEDLINE/PubMed



The screenshot shows the PubMed homepage. At the top, it features the NCBI logo and the PubMed logo, with the text "A service of the U.S. National Library of Medicine and the National Institutes of Health" and the URL "www.pubmed.gov". Below this is a search bar with "PubMed" entered, and buttons for "Go", "Clear", and "Advanced Search (beta)". A navigation menu includes "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", "PMC", "Journals", and "Books". On the left side, there are links for "About Entrez", "Entrez PubMed", "PubMed Services", and "Related Resources". The main content area contains a message about the NIH Public Access Policy, stating that manuscripts must be made available in PubMed Central. Below this, there is a brief description of PubMed as a service of the U.S. National Library of Medicine.

NCBI PubMed A service of the U.S. National Library of Medicine and the National Institutes of Health www.pubmed.gov My NCBI [Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for [] Go Clear Advanced Search (beta)

Limits Preview/Index History Clipboard Details

To get started with PubMed, enter one or more search terms.

Search terms may be [topics](#), [authors](#) or [journals](#).

The NIH Public Access Policy May Affect You

Does NIH fund your work?

Then your manuscript must be made available in PubMed Central

How?

If you publish in one of [these journals](#), they will take care of the whole process.

If you publish *anywhere else*, deposit the manuscript in PubMed Central via one of the options described at [publicaccess.nih.gov](#).

PubMed is a service of the U.S. National Library of Medicine that includes over 18 million citations from MEDLINE and other life science journals for biomedical articles back to the 1950s. PubMed includes links to full text articles and other related resources.

<http://pubmed.gov>

MEDLINE/PubMed

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

The screenshot shows the PubMed website interface. At the top, there is a search bar with a dropdown menu set to 'PubMed' and a 'Go' button. Below the search bar are buttons for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. A sidebar on the left is labeled 'Sidebar' and contains links for 'About Entrez', 'Entrez PubMed', 'PubMed Services', and 'Related Resources'. The main content area includes a message about the NIH Public Access Policy and a call to action: 'Does NIH fund your work? Then your manuscript must be made available in PubMed Central.' Below this is a link to 'http://pubmed.gov'.

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

Searching PubMed

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

Other search options include the following:

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

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



Advanced Search (Beta)

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

Search Results

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

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

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

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

My NCBI

My NCBI is an easy way to STORE and UPDATE searches on topics of continuing interest. You can choose filters that group your search results. Search updates will automatically be e-mailed to you. To use this feature, you must first register and your browser must accept cookies. Click [My NCBI](#) in the left sidebar under **PubMed Services**.

Ordering Documents

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

Additional Resources

For further information, we recommend these additional resources:

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



MEDLINE/PubMed Search Exercises

Search Example

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

Suggested Solution:

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



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

- ▶ Review the citation(s) retrieved

Search Exercises

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

Type	zidovudine mother child transmission in the search box
Click	the Limits tab
Select	<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)

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

Suggested Solution:

Type	cytomegalovirus retinitis foscarnet ganciclovir in the search box
Click	the Limits tab
	 Note that all the limits previously selected remain selected. You must deselect limits you do not want for this search.
Deselect	<u>English</u> in the Languages box
Deselect	<u>5 years</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)

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

Suggested Solution:

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

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

Click the **Go** button

Review the citation(s)



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

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

Suggested Solution:

Type **cultural competency** in the search box

Click the **Go** button

Click the checkbox to the left of a record of your choice

Select E-mail from the “Send to” pull-down menu

Select Abstract from the “Format” pull-down menu and Text from the “as” pull-down menu

Type your e-mail address in the e-mail box

Click the **Mail** button

Review the e-mail confirmation message highlighted in pink above the abstract

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

Suggested Solution:

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

Select PMC from the Search pull-down menu to the left of the search box

Click the **Go** button

Review the citation(s)

Alternate Method:

Click PubMed Central in the left sidebar under “Related Resources”

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

Click the **Go** button

Review the citation(s)

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

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

Suggested Solution:

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

Saving and Printing Records in PubMed

The PubMed **Send to Text** function creates a text file of PubMed records, which you can save on your computer. The **Send to** button is available on screens with search results. You can save the entire results of a specific search or selected records. If you don't select specific records before clicking on the **Send to** button, you will create a file on your computer that will contain the entire search results, up to a maximum of 10,000 items.

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

Saving Entire Search Results

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

Saving Selected Citations from a Single Search

- ▶ Use the **Display** pull-down menu to select a format.
- ▶ Click in the check boxes next to each citation you want to save.
- ▶ You can move to other pages within the search results to make more selections.
- ▶ Click **Send to File** and your selected items will be saved in the **Display** format as plain text.



Saving a large retrieval may take several minutes. To save citations in html format, use the Save as... function of your browser and change the file extension to html. This will save only the citations displayed on the screen, so you may wish to use the Show function and **Send to Text** to adjust your display as needed.

Clipboard

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

-  If you select [Clipboard](#) from the **Send to** menu without selecting citations using the check box, PubMed will add all (up to 500 citations) of your search results to the Clipboard. The Clipboard will be lost after one hour of inactivity on PubMed or any of the other Entrez databases.
-  PubMed uses cookies to add your selections to the clipboard. In order for you to use this feature your Web browser must be set to accept cookies.
-  Citations in the clipboard are represented by the search number #0, which may be used in Boolean search statements. For example, to limit the citations you have collected in the Clipboard to English language citations, use the following search:
#0 AND english [1a]
-  This does not affect or replace the Clipboard contents.

E-mail

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

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

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

Order

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

-  Prior to using this program, you must establish an agreement with a Loansome Doc participating library. During the registration process, you will have the opportunity to search for a Loansome Doc provider in your area (U.S. and International). Local fees may apply. To register, click [Order Documents](#) from the PubMed sidebar menu, then [Loansome Doc](#) under **Loansome Doc Options**, then [Sign up!](#) from the Loansome Doc screen.
-  Once you have registered with Loansome Doc, you can order citations by clicking the check box to the left of each citation you want to order. When you have finished marking your

selections (you may move to other pages within your results), select Order from the **Send to** menu, and click the **Send to** button. You may also use the Clipboard to collect items from multiple searches before ordering.



For some journals the full-text of articles are available via a PubMed link to the publisher's Web site. Publisher links for the full-text of the article are displayed on the Abstract or Citation display. You may also choose LinkOut from the Links pull-down menu to the right of each citation. LinkOut is a PubMed feature that links to outside sources for the full-text of the article, e.g., a publisher's Web site, as well as other resources such as biological databases and sequencing centers. User registration, a subscription fee, or some other type of fee may be required to access the full-text of articles in some journals.

Importing Citations into a Reference Manager Program

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

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

Print

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



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



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

MEDLINE and MedlinePlus: What is the Difference?

MEDLINE is the National Library of Medicine’s (NLM) premier bibliographic database. This web-based research tool covers the fields of medicine, nursing, dentistry, veterinary medicine, the health care system, and the preclinical sciences. It contains more than 17 million citations and abstracts. Most of the articles found in MEDLINE are very technical and written for health care professionals. MEDLINE is available free through NLM’s PubMed search system.

While MEDLINE is a source of medical research literature for health professionals, **MedlinePlus** provides health information especially written for consumers and patients by the National Institutes of Health and other reliable sources. MedlinePlus provides information on over 750 health topics. Additionally, consumers can search for information in the online medical encyclopedia or medical dictionary, get information on prescription and over-the-counter medication, and obtain information on local physicians and dentists. MedlinePlus is not a database for references to journal articles.

Use this Decision Tree to choose the correct database:

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

MedlinePlus

MedlinePlus[®]
Trusted Health Information for You

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

Search MedlinePlus

About MedlinePlus | Site Map | FAQs | Contact Us

español

Health Topics
Start here with 750 topics on conditions, diseases and wellness

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

Medical Encyclopedia
Includes pictures and diagrams

Dictionary
Spellings and definitions of medical words

News
Current health news and press announcements

Directories
Find doctors, dentists and hospitals

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

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

Multiple Languages
Health information in over 40 languages

Current Health News

- ▶ [Vigorous Exercise Aids Those with Obesity-Related Gene](#)
- ▶ [Under-the-Skin Blood Sugar Monitor Boosts Diabetes Control](#)
- ▶ [Most U.S. Parents are Vaccinating According to New CDC Survey; Vaccine Coverage Rates for Children Remain High](#)
- ▶ [More news](#)

Featured Site

September is National Cholesterol Education Month. [Learn more](#) from the National Heart, Lung, and Blood Institute

In the Spotlight

It's hurricane and tropical storm season. Learn more: [Hurricanes](#), [Floods](#)

Interactive Tutorials
Over 165 slideshows with sound and pictures

ClinicalTrials.gov
Studies for new drugs and treatments

NIH SeniorHealth
Health information for older adults

Surgery Videos
Videos of surgical procedures

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[Director's Comments](#)

[NIH MedlinePlus Magazine](#)

[E-mail Updates and RSS](#)

<http://medlineplus.gov>

MedlinePlus

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

MedlinePlus Resources

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

Current Health News

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

Featured Site

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

In the Spotlight

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

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

Interactive Tutorials
Over 165 slideshows with sound and pictures

ClinicalTrials.gov
Studies for new drugs and treatments

NIH SeniorHealth
Health information for older adults

Surgery Videos
Videos of surgical procedures

español

Subscribe to MedlinePlus Magazine

Link to Spanish Version

Interactive Tutorials

<http://medlineplus.gov>

Features offered by MedlinePlus include:

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

Searching MedlinePlus

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



Browsing MedlinePlus

Health Topics

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

<p>Body Location/Systems</p> <ul style="list-style-type: none"> 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 	<p>Disorders and Conditions</p> <ul style="list-style-type: none"> Cancers Genetics/Birth Defects Infections Injuries and Wounds Mental Health and Behavior Metabolic Problems Poisoning, Toxicology, Environmental Health Pregnancy and Reproduction Substance Abuse Problems <p>Diagnosis and Therapy</p> <ul style="list-style-type: none"> Complementary and Alternative Therapies Diagnostic Tests Drug Therapy Surgery and Rehabilitation Symptoms Transplantation and Donation 	<p>Demographic Groups</p> <ul style="list-style-type: none"> Children and Teenagers Men Population Groups Seniors Women <p>Health and Wellness</p> <ul style="list-style-type: none"> Disasters Fitness and Exercise Food and Nutrition Health System Personal Health Issues Safety Issues Sexual Health Issues Social/Family Issues Wellness and Lifestyle
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Frequently Requested Topics

- [Frequently Requested Topics](#)
- [Interactive Health Tutorials](#)
- [Easy to Read](#)
- [Health Check Tools](#)
- [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).

Additional Links on the Home Page



Director's Comments

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



NIH MedlinePlus Magazine

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



E-mail Updates and RSS

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

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

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Over 165 slideshows with sound and pictures

ClinicalTrials.gov
Studies for new drugs and treatments

NIH SeniorHealth
Health information for older adults

Surgery Videos
Videos of surgical procedures

NEW [What's New](#)

[Director's Comments](#)

[NIH MedlinePlus Magazine](#)

[E-mail Updates and RSS](#)

Additional Resources

For further information, we recommend these additional resources:

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



MedlinePlus Search Exercises

Search Example

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

Suggested Solution:

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

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

- ▶ Click **A**

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

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

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

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

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

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



Overviews

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

Latest News

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

- ▶ Review the Information and close the NIH window

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



Search Exercises

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

Suggested Solution:

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

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

Suggested Solution:

- | | |
|-------|---|
| Click | the Health Topics tab |
| Click | A |
| Click | Alternative Medicine from the alphabetical list |

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

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

Suggested Solution:

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

Exercise 4: Find health information for diverse population groups.

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

The NLM Gateway



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

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

The NLM Gateway

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

NLM Gateway
A service of the U.S. National Institutes of Health

Your Entrance to Resources from the National Library of Medicine

Home Term Finder Limits/Settings About Help FAQ

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

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

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

Searching NLM Gateway

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

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

NLM Gateway
A service of the U.S. National Institutes of Health

Your Entrance to Resources from the National Library of Medicine

Home Term Finder Limits/Settings Search Details History My Locker About Help FAQ

Limits and Settings

Search Limits Results Settings Select Fields Download/Display

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

English Only

Subsets

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

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

[Apply](#) [Save](#) [Restore Default](#)

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

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

Search Results

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

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

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

My Locker

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

Additional Resources

For further information, we recommend these additional resources:

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



NLM Gateway Search Exercises

Search Example

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

Suggested Solution:

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

The screenshot shows the NLM Gateway search interface. At the top, it says 'NLM Gateway A service of the U.S. National Institutes of Health'. Below that is a navigation bar with links: Home, Term Finder, Limits/Settings, About, Help, and FAQ. The main search area has a text input field containing 'hiv aids treatment' and a 'Search' button. A green arrow points to the 'Search' button. Below the search box, there is a small instruction: 'Enter your search in the box above. Tip: For searching by topic, authors, titles or...'

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

The screenshot shows the search results page for 'hiv aids treatment'. It displays a 'Results Summary: 76455 records found'. The results are organized into three columns: Bibliographic Resources, Consumer Health Resources, and Other Information Resources. The 'Other Information Resources' column is highlighted with a green arrow and contains the following items:

124 HSRProj - Health Services Research Projects
18 OMIM - Online Mendelian Inheritance in Man
51 HSDB - Hazardous Substances Data Bank
0 IRIS - Integrated Risk Information System
0 ITER - International Toxicity Estimates for Risk
0 GENE-TOX - Genetic Toxicology (Mutagenicity)
0 CCRIS - Chemical Carcinogenesis Research Information System
5 Profiles in Science

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

The screenshot shows the search results page for 'hiv aids treatment', specifically the HSRProj results. The left sidebar is highlighted with a green arrow and contains the following categories:

- Bibliographic**
 - PubMed (47902)
 - NLM Catalog (2753)
 - Bookshelf (990)
 - TOXLINE Subset (1965)
 - DART (53)
 - Meeting Abstracts (19259)
- Consumer Health**
 - MedlinePlus ...
 - Health Topics (21)
 - Drug Info (67)
 - Med Encyclopedia (36)
 - Health News (17)
 - Other Resources (25)
 - ClinicalTrials.gov (3072)
 - DIRLINE (96)
 - Genetics Home Ref (1)
 - Household Prods (0)
- Other Resources**
 - HSRProj >>
 - OMIM (13 00)

The main content area shows 'HSRProj Results (Items 1-20 of 124)'. It includes a search bar, navigation links (Prev, Page 1 of 7, Next), and a list of results with checkboxes:

- HIV Research Network: Collecting and analyzing data on health services utilization by people living with HIV in treatment at approximately 20 care sites around the country. Conviser, Richard.
- Discrimination, health care attitudes and HIV treatment Bogart, Laura M.
- Religious organizations and HIV/AIDS prevention and care Agadjanian, Victor.
- Preventing HIV/AIDS in treatment-resistant drug-abusing youth Hops, Hyman.
- Urban congregations' capacity for HIV prevention and care Derose, Kathryn Pitkin.
- Optimizing HIV care in less developed countries Freedberg, Kenneth A.
- Neuropsychological and cultural predictors of adherence Robbins, Reuben N.

Search Exercises

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

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

This page is intentionally blank.

DIRLINE

Directory of Health Organizations

SIS Specialized Information Services

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

[SIS Home >](#)

Search DIRLINE

(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



Health Hotlines

Toll-free numbers for over 300 organizations

Other NLM Resources

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

Support Pages

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

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

DIRLINE

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

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

**A-Z List of Health
Organizations**

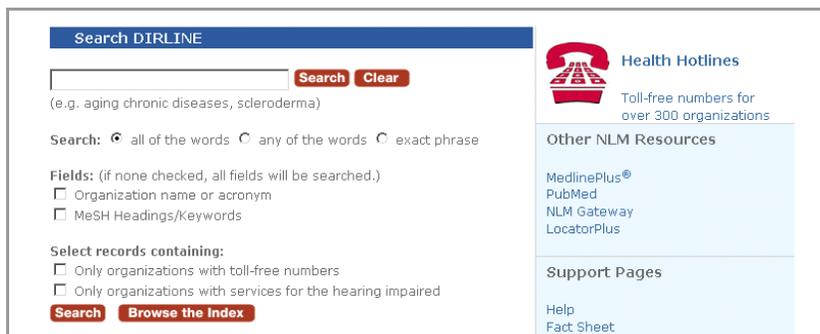
<http://www.dirline.nlm.nih.gov>

DIRLINE contains more than 8,000 records and focuses primarily on health and biomedicine, although it provides limited coverage of some other special interests. Topics include HIV/AIDS, maternal and child health, most diseases and conditions including genetic and other rare diseases, health services research, and technology assessment. The information resources fall into many categories, including:

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

Searching DIRLINE

Search DIRLINE using subject words (such as disease or condition) or the name or location of a resource. Keep the search simple to maximize retrieval. Refine your search by including Medical Subject Headings (MeSH®).



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



Additional Resources

For further information, we recommend these additional resources:

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



DIRLINE Search Exercises

Search Example

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

Suggested Solution:

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



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

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



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



Search Exercises



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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Suggested Solution:

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

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

Additional Resources

Selected Internet Resources in Health

Agency for Healthcare Research and Quality

<http://www.ahrq.gov>

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

American Medical Association

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

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

BioMed Central

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

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

CDC Environmental Health

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

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

CDC National Center for Infectious Diseases

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

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

Center for Drug Evaluation and Research

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

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

ClinicalTrials.gov

<http://clinicaltrials.gov>

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

CNN Health

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

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

Directory of Open Access Journals

<http://www.doaj.org>

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

Doctor's Guide

<http://www.docguide.com>

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

U.S. Food and Drug Administration

<http://www.fda.gov>

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

Health Hotlines

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

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

Health Literacy Training [FREE]

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

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

Healthfinder

<http://www.healthfinder.gov>

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

HealthWeb

<http://healthweb.org>

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

Healthy People 2010

<http://healthypeople.gov>

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

Healthy People 2010 Information Access Project

<http://phpartners.org/hp>

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

Medical Matrix

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

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

MedicineNet

<http://www.medicinenet.com>

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

MedlinePlus

<http://medlineplus.gov>

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

Medscape

<http://www.medscape.com>

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

MedWeb Community (MWC)

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

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

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

MyFamilyHealthPortrait

<https://familyhistory.hhs.gov>

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

National Library of Medicine

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

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

National Library of Medicine Free Biomedical Literature Resources

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

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

National Medical Association

<http://www.nmanet.org>

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

National Women's Health Information Center

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

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

NIH Health Information

<http://health.nih.gov>

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

NursingNet

<http://www.nursingnet.org>

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

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

<http://www.omhrc.gov>

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

Partners in Information Access for the Public Health Workforce

<http://phpartners.org>

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

Public Health Information and Data Tutorial

<http://phpartners.org/tutorial>

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

National Clearinghouse for Alcohol and Drug Information

<http://ncadi.samhsa.gov>

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

Public Library of Science

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

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

PubMed

<http://pubmed.gov>

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

Rural Assistance Center State Resources

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

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

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

Virtual Hospital®

<http://uihealthcare.com/vh>

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

WebMD®

<http://www.webmd.com>

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

WholeHealthMD

<http://www.wholehealthmd.com>

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

Selected Internet Resources in HIV/AIDS

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

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

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

- U.S. Department of Health and Human Services** <http://www.os.dhhs.gov>
- U.S. Food and Drug Administration, HIV and AIDS** <http://www.fda.gov/oashi/aids/hiv.html>
- World Health Organization, Tuberculosis** <http://www.who.int/tb/en/>
- Yahoo AIDS/HIV Resources** http://dir.yahoo.com/health/diseases_and_conditions/aids_hiv

Savvy Health Surfing



Questions to Ask About Health-related Web Sites

Authority and Accuracy

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

Coverage

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

Currentness

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

Objectivity

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

Design Features

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

Contacting the National Library of Medicine for Database Assistance

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

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

The National Network of Libraries of Medicine

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

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

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