HIV/AIDS Information Resources from the National Library of Medicine®

Updated June 2017
Disclaimer

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

This document was prepared for the **Division of Specialized Information Services, National Library of Medicine, National Institutes of Health** by the Oak Ridge Associated Universities (ORAU).

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

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

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


The National Library of Medicine, a part of the National Institutes of Health, is the world’s largest medical library with a mission to collect and disseminate trustworthy, reliable health information to health care professionals, researchers, patients, and the public.
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Section 1: Introduction
Introduction

Why the National Library of Medicine®?

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

NLM Online Resources Covered in this Workbook

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

- **AIDSource**—a portal linking to various resources from NLM, NIH, and other organizations. A comprehensive Spanish version is also available
- **AIDSinfo®**—a service that offers health care professionals and consumers access to the latest, federally approved HIV/AIDS medical practice guidelines, clinical trials, and other research information. infoSIDA is the Spanish-language counterpart to AIDSinfo
- **ClinicalTrials.gov**—regularly updated information about federally and privately supported clinical research for a wide range of diseases and conditions, including locations and phone numbers for more details
- **MedlinePlus®**—a consumer health information resource that includes full-text documents on medical topics, information on drugs, a medical encyclopedia, medical dictionaries, and directories of libraries, hospitals, and health care professionals
- **PubMed®/MEDLINE®**—access to references for articles published in journals in the fields of medicine and the life sciences
- **Public Health Partners**—a collaboration of US government agencies, public health organizations, and health sciences libraries which provides timely, convenient access to selected public health resources on the Internet
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Section 2: Navigating the Web for Health Information
Finding Quality Health Information on the Internet

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

Evaluating Internet Resources

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 pullout reference card in the back of this workbook.

Additional Resources

For further information, we recommend these additional resources:

► HON Code of Conduct for Medical and Health Web sites
  http://www.hon.ch/HONcode

► Evaluating Internet Health Information: A Tutorial from the National Library of Medicine

► MedlinePlus—Evaluating Health Information

► 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.

<table>
<thead>
<tr>
<th>#</th>
<th>URL</th>
<th>Authority/Accuracy</th>
<th>Coverage</th>
<th>Currentness</th>
<th>Objectivity</th>
<th>Design Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td><a href="https://www.drugs.com">https://www.drugs.com</a></td>
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<td><a href="http://www.2ndwind.org">http://www.2ndwind.org</a></td>
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Section 3: AIDSource
AIDSource is a portal linking to various resources from NLM, NIH, and other organizations. It contains basic information on HIV/AIDS, HIV-related conditions and opportunistic infections, HIV/AIDS policies and organizational living with HIV/AIDS, and more.

AIDSource offers access to a comprehensive collection of HIV/AIDS-related resources reviewed and selected by expert information specialists and librarians. AIDSource was developed by NLM to ensure that those seeking information about HIV/AIDS have a source of quality reviewed, current content. The mission of AIDSource is to serve as a reliable source for easy access to HIV/AIDS-related information from both within and outside of the federal government. Resources included on the AIDSource Web site are organized by both topic of interest and audience. A comprehensive Spanish version is also available (see https://aids.nlm.nih.gov/espanol).

https://aids.nlm.nih.gov/
Organization and Topics

The links on AIDSource are organized into several primary topic areas:

- **Basic HIV/AIDS Information**—fact sheets, general information, and organizations
- **HIV Prevention**—information on domestic violence, prevention programs and organizations, transmission and risk behaviors, medical practice guidelines, mother-to-child transmission, PEP/PrEP, testing, and training resources
- **HIV Treatment**—topics include adherence, treatment, services and assistance, medical practice guidelines, medication, side effects, training resources and treatment failure/drug resistance
- **HIV-Related Conditions**—basic and advanced information on HIV-related conditions
- **HIV/AIDS Policies and Organizational Programs**—links to global and United States policies and programs
- **Living with HIV/AIDS**—topics include complementary and alternative therapy; diet, nutrition, and food safety; disclosure/legal information; drug and alcohol use; exercise and physical fitness; and traveling
- **Medical Practice Guidelines**—guidelines for health care providers, covering general guidelines, HIV prevention and treatment, and specific conditions
- **Mobile Resources**—links to apps and mobile Web sites
- **Multimedia**—audio, video, photos, illustrations, and slide sets
- **News Resources**—blogs, news, and newsletters/e-news publications
- **Research**—clinical trials, grants and funding, prevention and treatment research, tools and information services, research organizations, and vaccine research
- **Specific Populations**—HIV/AIDS information for certain populations
- **Statistics and Surveillance**—data for geographic locations and populations
- **Training Resources**—training on prevention and treatment
- **HIV Navigation Resources**—tools and resources related to HIV such as peer navigators, peer programs, and interventions
- **PrEP Navigation Resources**—resources with information about PrEP navigation
Browsing Topics by Category

You can access a topic by selecting it from the list provided on the AIDSource homepage.

You can also click “Browse HIV/AIDS Topics” for quick access to specific topics.

Browsing Topics by Audience

To view AIDSource content relevant to a specific audience, such as the general public, health professionals, multilingual speakers, researchers/scientists, and students/educators, select an audience from the drop-down in the upper right area of the page.
Searching AIDSource

To search AIDSource, select the search icon (magnifying glass) in the upper right corner. Enter your search term in the search box that appears, and click the magnifying glass or press Enter.

AIDSource Spanish

To view Spanish-language AIDSource resources, click the En Español button in the upper right corner of the Web page. You will be directed to the Spanish version of AIDSource with reliable HIV-related resources in Spanish organized by topic and subtopic. You can also utilize the search option in the Spanish version of AIDSource.

Stay Connected

Mobile-Friendly

AIDSource is mobile-responsive, automatically adjusting to the size of the device being used to access it. The same site can be accessed on mobile devices and computers alike at https://aids.nlm.nih.gov.

Apps/Mobile Web sites

The “Mobile Resources” section of AIDSource contains links to apps and mobile Web sites.

Twitter

AIDSource offers a list of Twitter handles corresponding to organizations that provide HIV/AIDS-related information at https://aids.nlm.nih.gov/twitter. To view posts about AIDSource on Twitter, search for the AIDSource hashtag (#AIDSource) or visit https://twitter.com/hashtag/aidsource.

Facebook

AIDSource offers a list of Facebook pages for HIV/AIDS-related organizations at https://aids.nlm.nih.gov/facebook
AIDSource Search Exercises

► Go to https://aids.nlm.nih.gov/

Exercise 1: Locate resources related to the mental and emotional health of someone living with HIV/AIDS.

Suggested Solution:
- Click the Browse HIV/AIDS Topics button at the top of the page
- Click Living with HIV/AIDS
- Click Mental and Emotional Health
- Review the available resources

Exercise 2: Identify resources for researchers and scientists working on HIV/AIDS-related research.

Suggested Solution:
- Click the Select Audience drop-down at the top right of the page
- Click Researchers/Scientists
- Review the available resources

Exercise 3: Find HIV/AIDS resources related to hepatitis.

Suggested Solution:
- Click the Search button (🔍) at the top right of the page
- Enter hepatitis in the search box
- Click the Search button
- Review the search results returned

For searches with more than 10 search results, click the Load More button at the bottom of the search results page to view additional results.
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AIDSinfo, a service of the U.S. Department of Health and Human Services (HHS), offers access to the latest, federally approved HIV/AIDS medical practice guidelines, HIV treatment and prevention clinical trials, and other research information for health care providers, researchers, people affected by HIV/AIDS, and the general public. A comprehensive Spanish version (infoSIDA) is also available (see https://infosida.nih.gov/).
Organization and Features

AIDSinfo is organized around five 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

► **Understanding HIV/AIDS**—patient education materials which include fact sheets, infographics, HIV/AIDS glossary, and web pages highlighting National HIV/AIDS Awareness Days

► **Drugs**—records for FDA-approved and investigational HIV/AIDS-related drugs: Patient and Health Professional versions are available

► **Clinical Trials**—search tool that provides access to HIV/AIDS-related ClinicalTrials.gov study records

► **Apps**—free downloadable on-the-go access to AIDSinfo Guidelines, Drug Database, and Glossary applications on HIV/AIDS; available for iOS and Android devices

Additional features offered in AIDSinfo include the following:

► **AIDSinfo Contact Us**—health information specialists provide customized, confidential answers to questions about HIV/AIDS clinical trials and treatment

► **HIV/AIDS News**—database of HIV/AIDS-related news from federal agencies, including an archive of the AIDSinfo e-newsletter At-a-Glance

► **Publications**—print, electronic, and PDF versions of AIDSinfo publications (Single copies of print publications are free)
Searching AIDSinfo

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

AIDSinfo Spanish

To view Spanish-language AIDSinfo resources, click the button in the upper right corner of the Web page. You will be directed to the Spanish version of AIDSinfo (infoSIDA) with federally approved HIV/AIDS medical practice guidelines, HIV treatment and prevention clinical trials, and other research information for health care providers, researchers, people affected by HIV/AIDS, and the general public. You can also utilize the search option in the Spanish version of AIDSinfo.

Clinical Guidelines

Search by keywords in the Adult and Adolescent, Perinatal, Pediatric, HIV-Infected Residents Displaced from Disaster Areas Guidelines or browse the current and archived guidelines.

Understanding HIV/AIDS

Find HIV/AIDS-related resources (fact sheets, infographics, glossary, awareness day pages) for easy-to-understand information.

AIDSinfo Drug Database

Search by key words, approval status, drugs, drug class, or conditions and search alphabetically.

AIDSinfo Clinical Trials Database

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

Apps

Free downloadable on-the-go access to AIDSinfo Guidelines, Drug Database, and Glossary applications on HIV/AIDS.

Stay Connected

Mobile-Friendly

The AIDSinfo Web site is responsive, automatically adjusting to the size of the device being used to access it. The same site can be accessed on mobile devices and computers alike at https://aidsinfo.nih.gov
Apps

Download AIDSinfo mobile apps, created specifically for iOS and Android devices. Download apps at https://aidsinfo.nih.gov/apps

Twitter

Twitter provides AIDSinfo users with timely and updated health news and information. Join and follow at @AIDSinfo at https://twitter.com/aidsinfo

Get E-mail Updates


Facebook

Facebook provides AIDSinfo users with a simple way to stay up-to-date with the latest HIV/AIDS information. Like the AIDSinfo page at https://facebook.com/AIDSinfo

Additional Resources

For further information, we recommend these additional resources:

► AIDSinfo Brochure

► AIDSinfo Glossary

► Glosario del VIH/SIDA
  https://aidsinfo.nih.gov/ContentFiles/SpanishGlossary_sp.pdf

► infoSIDA
  https://infosida.nih.gov

► AIDS.gov HIV/AIDS Feeds
  https://aidsinfo.nih.gov/rss
AIDSinfo® Search Exercises

Search Example: Locate the latest guidance on initial and follow-up laboratory testing recommendations in adults and adolescents living with HIV.

Suggested Solution

► Go to https://aidsinfo.nih.gov
► Click Guidelines

► Click Adult and Adolescent ARV

► Click Tests for Initial Assessment and Follow-up under Laboratory Testing in the left navigation menu
Search Exercises

Guidelines

Exercise 1: Using the navigation bar, locate the guidelines for caring for HIV-infected individuals following a disaster.

Suggested Solution:

Click **Guidelines** at the top of the page

Click **HIV-Infected Residents Displaced from Disaster Areas**

Click **Full Guideline** under Download Guidelines

Review the guidelines and then close the CDC window

Exercise 2: Conduct a guideline search for initiating antiretroviral therapy in treatment-naive adult and adolescent patients.

Suggested Solution:

Click **Guidelines** at the top of the page

Select **Adult and Adolescent ARV** from the drop-down menu under **Guidelines Search**

Type **treatment naive** in the **Search** box

Click the **Search** button

Click **Initiation of Antiretroviral Therapy**

Review the guidelines
Exercise 3: What are the guidelines for incorporating HIV prevention into the medical care of HIV positive patients?

Suggested Solution:
- Click Guidelines at the top of the page
- Click Prevention with Persons with HIV
- Review the guidelines and then use the browser's Back button to return to AIDSinfo

Exercise 4: Review the most recent Guidelines news topic. Next, subscribe to the AIDSinfo biweekly e-newsletter (optional).

Suggested Solution:
- Click Guidelines at the top of the page
- Click the first topic under News at the bottom left of page
- Review the information and then use the browser's Back button to return to Guidelines
- Click Email updates at the bottom of the page and follow the on-screen instructions to subscribe to AIDSinfo At-a-Glance

Exercise 5: Perform a Guideline search of your choice.

Understanding HIV/AIDS

Exercise 6: Browse the fact sheets.

Suggested Solution:
- Click Understanding HIV/AIDS at the top of the page
- Click Fact Sheets
- Review the fact sheet(s) of your choice
- Click the browser's Back button to return to the Understanding HIV/AIDS page

Exercise 7: The population over the age of 50 is one of the fastest-growing groups living with HIV. Locate fact sheets for this population.

Suggested Solution:
- Click Understanding HIV/AIDS at the top of the page
- Click View Fact Sheets
- Click HIV and Older Adults under HIV and Specific Populations
Exercise 8: Using the glossary, locate the definition of undetectable viral load.

Suggested Solution:
- Click **Understanding HIV/AIDS** at the top of the page
- Click **Glossary**
- Type **undetectable viral load** in the **Search the Glossary** search box
- Click the **Search** button
- Click **Undetectable Viral Load**
- Review the definition

Exercise 9: What are the most common causes of blips and what are some ways to avoid blips?

Suggested Solution:
- Click **Understanding HIV/AIDS** at the top of the page
- Click **Infographics**
- Click **What’s a Blip?** infographic
- Review the information on blip
- Close use the browser’s Back button to return to the Understanding HIV/AIDS page

Exercise 10: View National HIV/AIDS Awareness days.

Suggested Solution:
- Click **Understanding HIV/AIDS** at the top of the page
- Click **Awareness Day Pages**
- Review HIV/AIDS Awareness Day(s) of your choice
- Close use the browser’s Back button to return to the Understanding HIV/AIDS page
**Drugs**

**Exercise 11:** The U.S. Food and Drug Administration (FDA) approved a generic formulation of Ziagen, a Nucleoside Reverse Transcriptase Inhibitor. What is the generic name?

Suggested Solution:
- Click **Drugs** at the top of the page
- Type **ziagen** in the **Search** box
- Click the **Search** button ()
- Click **Abacavir**
- Review the **Other Names** section

**Exercise 12:** Using the A-Z Index, review the Spanish record for the drug Combivir.

Suggested Solution:
- Click **Drugs** at the top of the page
- Click **C** under the **Browse Drug Names A-Z**
- Click **Combivir**
- Click **En Español** to the upper right of the page
- Click **English** to return to the AIDSinfo Drug Database

**Exercise 13:** Truvada has been approved as a pre-exposure prophylaxis (PrEP). What are the side effects of taking this drug?

Suggested Solution:
- Click **Drugs** at the top of the page
- Type **truvada** in the **Search Drugs** box
- Click the **Search** button ()
- Click **Truvada**
- Review the information under **What side effects can Truvada cause?**
Exercise 14: Are heart problems a side effect of Maraviroc? Use the A–Z Index.

Suggested Solution:
Click Drugs at the top of the page
Click M under the Browse Drug Name A-Z section
Click Maraviroc (HIV Treatment)
Scroll to What side effects can maraviroc cause?

Exercise 15: View the list of investigational Integrase Inhibitors. Review the clinical trial status of one of the investigational drugs.

Suggested Solution:
Click Drugs at the top of the page
Click Filter by approval status, drug class, and condition under the Search Drugs box
Select Investigational under the Approval: section
Select Integrase Inhibitors under the Class: section
Click the Update button
Click an investigational Integrase Inhibitor of your choice
Click research studies under Where can I get more information about clinical trials studying…..?
Click a clinical trial record of your choice
Review the clinical status of the clinical trial record you chose and close the ClinicalTrials.gov window

Exercise 16: In 2016, the U.S. Food and Drug Administration (FDA) approved Descovy, a combination drug, to treat HIV. What is the mode of delivery and fixed doses of emtricitabine/tenofovir AF in Descovy?

Suggested Solution:
Click Drugs at the top of the page
Type descovy in the Search box
Click the Search button
Click descovy
Click Tablet (film coated) under FDA Label(s) to the left of the page
Exercise 17: Review the most recent Drug News topic.

Suggested Solution:

- Click Drugs at the top of the page
- Click the first topic under Drug News to the right of the page
- Click the browser’s Back button or close the pop-up window to return to the Drug Database
- Click More News to view archived news topics.

Exercise 18: What is the recommended oral suspension dose of Nevirapine for newborns?

Suggested Solution:

- Click Drugs at the top of the page
- Type nevirapine in the Search box
- Click the Search button
- Click nevirapine
- Click Suspension, tablet under FDA Label(s) to the left of the page

Detailed drug dosing information is provided only in the health professional version (FDA Label).

- Click Dosage & Administration under FDA Drug Label Sections
- Review the information for pediatric patients

Clinical Trials

Exercise 19: Oral candidiasis is a condition some HIV-infected individuals may have. Are there any clinical trials studying this condition?

Suggested Solution:

- Click Clinical Trials
- Type oral candidiasis in the Search by Keyword box
- Click the Search button
- Review clinical trial(s) of your choice
Exercise 20: Are there any clinical trials researching the effectiveness and safety of Dapivirine in preventing HIV infection in women. Next, display only the studies that are recruiting.

Suggested Solution:

| Click | Clinical Trials |
| Click | Show More |
| Type | prevention in the Search box |
| Type | dapivirine in the Interventions search box |
| Select | Studies with Female Participants from the Gender drop-down menu |
| Click | the Search button |
| Review | the clinical trial record(s) |
| Select | Studies seeking new volunteers from the All Studies drop-down menu |
| Review | the clinical trial record(s) and close the ClinicalTrials.gov window |

Exercise 21: Are there any Phase 3 clinical trials studying the use of cognitive behavioral therapy in individuals infected with HIV?

Suggested Solution:

| Click | Clinical Trials |
| Click | Show More |
| Type | cognitive behavioral therapy in the Interventions search box |
| Select | Phase 3 in the Phase: search field |
| Click | the Search button |
| Review | the clinical trial record(s) and close the ClinicalTrials.gov window |

Exercise 22: Using the “Search by Category” feature, locate clinical trials that are studying Long-term Nonprogressors.

Suggested Solution:

| Click | Clinical Trials |
| Click | Specific Populations |
| Click | Long-Term Nonprogressors/Elite Controllers under Specific Populations |
| Review | clinical trial(s) of your choice |
Exercise 23: Review the most recent Clinical Trial News topic. Next, review the “What is an HIV/AIDS Clinical Trial” fact sheet.

Suggested Solution:

- Click **Clinical Trials**
- Click the first topic under **Clinical Trial News** to the right of the page
- Review the information and close the pop-up window or use the browser’s **Back** button to return to the **Clinical Trials page**
- Click the **Clinical Trials** tab at the top of the page
- Click **AIDSinfo Fact Sheet: HIV/AIDS Clinical Trials** under **Related Content** at the bottom of the page
- Review the fact sheet and close the pop-up window
- The fact sheet is also available in the Understanding HIV/AIDS section

Exercise 24: Find all HIV/AIDS clinical trials in your home state.

Suggested Solution:

- Click **Clinical Trials**
- Click **Show More**
- Select a **state** from the **State** drop-down menu
- Click the **Search** button
- Review the clinical trial record(s)

**Apps**

Exercise 25: Browse the apps section.

Suggested Solution:

- Click **Apps** at the top of the page
- Review available apps for download for iOS and Android devices
- Close use the browser’s **Back** button to return to the **AIDSinfo** home page
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Section 5: ClinicalTrials.gov®
ClinicalTrials.gov®

ClinicalTrials.gov is a Web-based resource that provides patients, their family members, health care professionals, researchers, and the public with easy access to information on publicly and privately supported clinical studies on a wide range of diseases and conditions. ClinicalTrials.gov includes information about the trial's purpose, who may participate, locations where trials are held, contact information, and whether or not the trial is recruiting participants.

https://clinicaltrials.gov

Searching ClinicalTrials.gov

ClinicalTrials.gov study search options and search help resources are located on the homepage in the Search area in the middle of the page. Users can begin a basic search here, go to the advanced search form, or begin browsing for studies by topic or on a world map. Site visitors can also get help with searching, finding studies with summary results posted on ClinicalTrials.gov, and reading study records.
**Basic Search** – You can search by condition/diseases, other terms, and/or country. The box labeled **Search** can be found on the homepage, on the New Search page, and at the top of the results displayed upon running a search.

**Search Screen**

**Advanced Search** - Focus your search by entering or selecting search terms in multiple fields such as recruitment status, specific conditions, age group of participants, study results, and location. Access the Advanced Search link on the homepage and at the top of every page under the search box.
Search Results

Under the Search section, you will see your search terms and the number of studies that were found searching on those terms. The **Advanced Search** link is available next to the **Search** button where you can make changes to your search terms and do another search.

![Search Results](image)

**Filtering Search Results**

To the left of the search results, you can filter your search results by status (including studies and expanded access); eligibility criteria; study type, results, or phase; and funder type. Select the filter(s) you wish to use to narrow your search results and click **Apply**. To clear filters, click the **Clear** button to return to the full list of search results.

**Viewing a Study Record**

To view details about a study, click the study title in the search results.
Using the Drug Thalidomide to Stimulate T Cells in HIV-infected People

This study has been completed.

Sponsor:
National Institute of Allergy and Infectious Diseases (NIAID)

Information provided for:
National Institute of Allergy and Infectious Diseases (NIAID)

ClinicTrials.gov Identifier:
NCT00053450

First received: January 29, 2003
Last updated: August 6, 2009
Last verified: August 2009

Official Title: Pharmacologic T Cell Co-stimulation in HIV Disease

Purpose

Despite treatment with anti-HIV drugs, people infected with HIV continue to have problems with their immune systems. This study will evaluate whether the drug thalidomide, which stimulates the immune system's T cells, can improve immune system function in people with HIV.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Intervention</th>
<th>Phase</th>
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<tbody>
<tr>
<td>HIV Infections</td>
<td>Drug Thalidomide</td>
<td>Phase 1</td>
</tr>
<tr>
<td>HIV Infections</td>
<td>Drug Thalidomide placebo</td>
<td>Phase 2</td>
</tr>
</tbody>
</table>

Study Type: Interventional
Study Design: Allocation: Randomized
Intervention Model: Parallel Assignment
Masking: Double blind (Participant, Care Provider)
Primary Purpose: Treatment

Further study details as provided by National Institute of Allergy and Infectious Diseases (NIAID):

Primary Outcome Measures:
- Doubling in HIV-1-specific CD8 cell, measured by ELISPOT [Time Frame: Through Day 28]
- Increase in CMV pp65 CD4 cells, measured by ELISPOT in the thalidomide treatment group [Time Frame: Throughout study]
- Increase in HIV p24-specific IFN-gamma secreting CD4 cells in the thalidomide treatment group, measured by fluorescence-activated cell sorting (FACS) [Time Frame: Throughout study]
- Increase in cytomegalovirus (CMV)-specific interferon (IFN)-gamma-secreting CD4 T cells in the thalidomide treatment group, measured by FACS [Time Frame: Throughout study]

Secondary Outcome Measures:
- Increase in the frequency of low-grade lymphocytic infiltrates (LHI)-specific lymphocyte proliferative responses in the thalidomide treatment group [Time Frame: Throughout study]
- Increase in adverse events in the thalidomide treatment group [Time Frame: Throughout study]

Enrollment: 40
Study Start Date: April 2001
Study Completion Date: February 2006
Primary Completion Date: August 2005 (Final data collection date for primary outcome measure)

<table>
<thead>
<tr>
<th>Arms</th>
<th>Assigned Interventions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experimental: 1</td>
<td>Participants will receive low dose thalidomide for 28 days</td>
</tr>
<tr>
<td></td>
<td>Drug: Thalidomide Tablet taken orally daily</td>
</tr>
<tr>
<td>Placebo Comparator: 2</td>
<td>Participants will receive low dose placebo for 28 days</td>
</tr>
<tr>
<td></td>
<td>Drug: Thalidomide placebo Tablet taken orally daily</td>
</tr>
</tbody>
</table>

Detailed Description:

In patients with chronic HIV Infection, HIV replication and abnormalities in immune function persist following treatment with highly active antiretroviral therapy (HAART). Specifically, cell-mediated immune deficiency, which is a common feature of HIV infection, may contribute to the development of recurrent opportunistic infections, chronic inflammation, and progression of HIV disease. Thalidomide is a recently discovered drug that has been shown to be effective in inducing apoptosis and inhibiting cell proliferation in a variety of tumor cell lines. Thalidomide has been shown to be effective in a Phase II trial in HIV-positive patients with Kaposi's sarcoma. The mechanism of action of thalidomide is thought to be mediated through the induction of cell-mediated immunity, and the drug is currently being evaluated in Phase III trials for the treatment of advanced Kaposi's sarcoma and lymphoma. In this study, 40 HIV and CMV-infected patients on HAART and 40 HIV uninfected CMV seropositive controls will be randomly assigned to low dose thalidomide or placebo treatment for 28 days. T cell responses and HIV replication and genetic diversification will be assessed.

Eligibility

Agas Eligible for Study: 18 Years and older (Adult, Senior)
Sexes Eligible for Study: All
Accepts Healthy Volunteers: Yes

Study Record
Additional Resources

For further information, we recommend these additional resources:

► Prescription for Success: Consumer Health on the Web

► ClinicalTrials.gov Background Information and Other Consumer Health Information
  [https://clinicaltrials.gov/ct2/info](https://clinicaltrials.gov/ct2/info)

► ClinicalTrials.gov Online Training

► NLM Clinical Alerts and Advisories
ClinicalTrials.gov® Search Exercises

Search Example: Have clinical trials been conducted using Thalidomide to treat HIV-related illnesses?

Suggested Solution:

► Go to https://clinicaltrials.gov
► Type HIV in the Condition/Disease: Search box
► Type thalidomide in the Other Terms: Search box
► Click Search all studies

► Review record(s) of your choice
► At the top of the page, go to Find Studies and click New Search to prepare for the next search. Alternatively, modify the Search box as needed to perform a new search from the current search results page.

Search Exercises

Exercise 1: Locate clinical trials studying the Zika Virus.

Suggested Solution:
- Click Find Studies
- Click New Search
- Type Zika virus in the Condition/Disease box under Search
- Click Search all studies and review record(s) of your choice

Exercise 2: Do any clinical trials focus on the impact of the Human Papillomavirus (HPV) on the immune system?

Suggested Solution:
- Click Find Studies
- Click New Search
- Type human papillomavirus in the Condition/Disease box
- Type immune system in the Other Terms box
- Click Search all studies
- Review record(s) of your choice
Exercise 3: Is there any evidence that ginger can reduce the risk of developing colorectal cancer?

Suggested Solution:
- Click **Find Studies**
- Click **Advanced Search**
- Type **colorectal cancer** in the **Condition/Disease** box
- Type **ginger** in the **Intervention/Treatment** box
- Click **Search** and review record(s) of your choice

Exercise 4: Locate clinical trials that focus on oral health. Next, limit the results to individuals infected with HIV.

Suggested Solution:
- Click **Find Studies**
- Click **Advanced Search**
- Type **oral health** in the **Other Terms** box
- Click **Search** and review records(s) of your choice
- Click **Advanced Search**
- Type **HIV** in the **Condition/Disease** box
- Click **Search** and review record(s) of your choice

Exercise 5: Are there post-traumatic stress disorder clinical trials that include study results?

Suggested Solution:
- Click **Find Studies**
- Click **Advanced Search**
- Select **Studies With Results** from the **Study Results** drop-down menu
- Type **post-traumatic stress disorder** in the **Condition/Disease** box
- Click **Search** and review record(s) of your choice
Exercise 6: How many HIV/AIDS clinical trials are funded by NIH and where are they located? View the studies located in your country or region.

Suggested Solution:
- Click Find Studies
- Click Advanced Search
- Type HIV AIDS in the Condition/Disease box
- Select NIH to the right of Funder Type
- Click Search
- Click the On Map tab
- Click a country or region on the map
- Review record(s) of your choice

Exercise 7: Are there any clinical studies for the drug Ribavirin, which is used to treat Hepatitis C? Next, modify your search results to include only studies that are recruiting.

Suggested Solution:
- Click Find Studies
- Click Advanced Search
- Type hepatitis c in the Condition/Disease box
- Type ribavirin in the Intervention/Treatment box
- Click Search
- Review record(s) of your choice
- Select the Recruiting checkbox under Status: Studies in the filters section to the left of the page
- Click Apply
- Review record(s) of your choice

To remove a specific filter selection, click the clear button or deselect the checkbox next to the filter you wish to clear.

Exercise 8: Using the Studies by Topic feature, review clinical trials studying herbal and botanical dietary supplements. Review the records for Saw Palmetto.

Suggested Solution:
- Click Find Studies
Exercise 9: What should people consider before participating in a clinical trial? Next, review the definition of observational study.

Suggested Solution:

Click **About Studies**

Click **Learn About Studies**

Click **Considerations for Participation** under **Contents**

Review the information

Click **Glossary of Common Site Terms** on the left side the page under the **About Studies**

Click **O**

Review the definition of **observational study**

Exercise 10: What is a human subjects review board and protocol?

Suggested Solution:

Click **Glossary of Common Site Terms** under the **About Studies**

Click **H**

Review the definition of a **human subjects review board**

Click **TO TOP**

Click **P**

Review the definition of a **protocol**
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Section 6: MedlinePlus®
MedlinePlus®

MedlinePlus is NLMs answer to consumer-friendly, authoritative health information. It contains health information especially written for consumers and patients by the National Institutes of Health and other trusted sources. MedlinePlus contains information on health topics, lists of hospitals and physicians, extensive information on prescription and nonprescription drugs, interactive tutorials on many health conditions, links to articles on the latest health news, health information in more than forty languages, and much more. Resources are available in English and Spanish.

https://medlineplus.gov

Features

- Easy-to-read language
- Easy-to-navigate pages
- New links added daily
- No advertising or endorsements
- Latest health news
- Spanish version: https://medlineplus.gov/spanish
Searching MedlinePlus

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

MedlinePlus Spanish

To view the MedlinePlus Web site in Spanish, click the Español button (Español) in the upper right corner of the page. You will be directed to the Spanish version of MedlinePlus where you can view consumer-friendly health information. You can also utilize the search option in the Spanish version of MedlinePlus.

Browsing MedlinePlus

Health Topics can be browsed alphabetically, by body location and symptoms, disorders and conditions, diagnosis and therapy, health and wellness, and demographic groups. Read about
HIV/AIDS INFORMATION RESOURCES FROM NLM

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

**Health Topics**

Read about symptoms, causes, treatment and prevention for over 1000 diseases, illnesses, health conditions and wellness issues. MedlinePlus health topics are regularly reviewed, and links are updated daily.

**Find topics A–Z**

<table>
<thead>
<tr>
<th>Body Location/Systems</th>
<th>Disorders and Conditions</th>
<th>Demographic Groups</th>
<th>Health and Wellness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood, Heart and Circulation</td>
<td>Cancers</td>
<td>Children and Teenagers</td>
<td>Disasters</td>
</tr>
<tr>
<td>Bones, Joints and Muscles</td>
<td>Diabetes Mellitus</td>
<td>Men</td>
<td>Fitness and Exercise</td>
</tr>
<tr>
<td>Brain and Nerves</td>
<td>Genetics/ Birth Defects</td>
<td>Population Groups</td>
<td>Food and Nutrition</td>
</tr>
<tr>
<td>Digestive System</td>
<td>Infections</td>
<td>Seniors</td>
<td>Health System</td>
</tr>
<tr>
<td>Ear, Nose and Throat</td>
<td>Injuries and Wounds</td>
<td>Women</td>
<td></td>
</tr>
<tr>
<td>Endocrine System</td>
<td>Mental Health and Behavior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eyes and Vision</td>
<td>Metabolic Problems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune System</td>
<td>Poisoning, Toxicology, Environmental Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidneys and Urinary System</td>
<td>Pregnancy and Reproduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Substance Abuse Problems</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Stay Connected**

**Get E-mail Updates**

E-mail announcements contain links to new topics and sites on MedlinePlus along with other notices. You can sign up to receive general e-mails covering all health topics, or you can sign up to receive e-mails about specific topics. [https://medlineplus.gov/listserv.html](https://medlineplus.gov/listserv.html)

**Subscribe to RSS**

Really Simple Syndication (RSS) provides notification when new content, press announcements, and health news articles are published on MedlinePlus. [https://medlineplus.gov/rss.html](https://medlineplus.gov/rss.html)
Follow us on Facebook

Through Facebook, MedlinePlus shares recent health and medicine news and information. 
https://facebook.com/mplus.gov

Follow us on Twitter

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

Additional Resources

For further information, we recommend these additional resources:

► MedlinePlus Frequently Asked Questions https://medlineplus.gov/faq

► Evaluating Internet Health Information: A Tutorial from the National Library of Medicine https://medlineplus.gov/webeval


► Information for Librarians and Trainers https://medlineplus.gov/training
MedlinePlus® Search Exercises

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

Suggested Solution:

► Go to https://medlineplus.gov
► Click Health Topics

► Click A under Find topics A-Z

► Scroll down the list of alphabetical topics to find Acquired Immunodeficiency Syndrome see HIV/AIDS
► Click HIV/AIDS

► Click HIV/AIDS NIH (National Institute of Allergy and Infectious Diseases) under Start Here
Review the information and close the NIH window

Click Home at the top of the page to prepare for the next search

Search Exercises

Health Topics

Exercise 1: Using the MedlinePlus search box, locate information on caregiver stress.

Suggested Solution:

<table>
<thead>
<tr>
<th>Type</th>
<th>caregiver stress in the Search MedlinePlus search box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Go</td>
</tr>
<tr>
<td>Click</td>
<td>a topic(s) of your choice</td>
</tr>
<tr>
<td>Review</td>
<td>the information retrieved and close the pop-up window</td>
</tr>
</tbody>
</table>

Exercise 2: Using the alphabetical list of health topics, review the MedlinePlus Dental Health page and locate patient handouts for adult dental care.

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Health Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>D under Find topics A-Z</td>
</tr>
</tbody>
</table>

Suggested Solution:
Click **Health Topics**
Click **A** under Find topics A-Z
Click **AIDS** see HIV/AIDS from the alphabetical list
Click **Seniors** under For You
Click **HIV,AIDS, and Older People** under Seniors
Close NIH National Institute on Aging window and return to the MedlinePlus HIV/AIDS page
Select a topic under NIH MedlinePlus Magazine to the right of the page
Review the article retrieved
Click the browser’s Back button to return to the MedlinePlus page

Exercise 4: Using the alphabetical list of health topics, search for information on the use of flu vaccine in patients with immune deficiency.

Suggested Solution:
Click **Health Topics**
Click **F** under Find topics A-Z
Click **Flu Shot** from the alphabetical list
Click **Vaccination: Who Should Do It, Who Should Not and Who Should Take Precautions** under Resources
Review the information retrieved
Close the pop-up window
Exercise 5: Using the alphabetical list of health topics, locate information on issues to consider before using an alternative medicine therapy.

Suggested Solution:

Click **Health Topics**
Click **A** under **Find topics A-Z**
Click **Alternative Medicine** see **Complementary and Integrative Medicine** from the alphabetical list
Click **Are You Considering a Complementary Health Approach?** under **Start Here**

Review the information retrieved
Close the tab or pop-up window
Review the additional information on the MedlinePlus Complementary and Integrative Medicine page

Exercise 6: Find health information for diverse population groups.

Suggested Solution:

Click **Health Topics**
Click **Population Groups** under **Demographic Groups**
Select the population group of your choice

**Drugs & Supplements**

Exercise 7: What are the known side effects of Gardasil®, the human papillomavirus (HPV) vaccine? At what age should the vaccine be given?

Suggested Solution:

Click **Drugs & Supplements**
Click **G** under **Browse by generic or brand name**
Click **Gardasil** see **Human Papillomavirus (HPV) Vaccine (Gardasil)**
Click **What are the risks from this vaccine?**
Review the information retrieved
Click **Who should get HPV vaccine and when?**
Review the information retrieved
Exercise 8: I read that Naltrexone is showing promise as an effective Methamphetamine (Crystal Meth) addiction treatment. What is Naltrexone and why is it used for Crystal Meth addiction treatment?

Suggested Solution:
- Click **Drugs & Supplements**
- Click **N** under **Browse by generic or brand name**
- Click **Naltrexone**
- Click **Why is this medication prescribed?**
- Review the information retrieved

Exercise 9: Does garlic hinder the effectiveness of drugs used to treat HIV infection?

Suggested Solution:
- Click **Drugs & Supplements**
- Click **All herbs and supplements**
- Click **G**
- Click **Garlic**
- Click **What do we Know about Safety?**
- Review the information retrieved

Exercise 10: People living with HIV/AIDS commonly use the following herbs: Astragalus, Cat’s Claw, Goldenseal, and Tea Tree Oil. Are there any known side effects of using these drugs? Can these supplements interfere with prescribed medications?

Suggested Solution:
- Click **Drugs & Supplements**
- Click **All herbs and supplements**
- Click **Astragalus** [NIH (National Center for Complementary and Integrative Health)] in the alphabetical list
- Click **What do we Know about Safety**
- Review the information under **What do we Know about Safety**
- Close the NCCIH window and return to the MedlinePlus **Herbs and Supplements** page
- Repeat these steps for: Cat’s Claw, Goldenseal, and Tea Tree Oil.
Exercise 11: Locate the HIV/AIDS Medicines page. Next, register to receive HIV/AIDS Medication updates by e-mail (optional).

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs &amp; Supplements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>HIV/AIDS Medicines under Related Topics</td>
</tr>
<tr>
<td>Review</td>
<td>the content on the page</td>
</tr>
<tr>
<td>Type</td>
<td>your e-mail address in the Get HIV/AIDS Medicines updates by e-mail box</td>
</tr>
<tr>
<td>Click</td>
<td>Go and follow the on-screen directions</td>
</tr>
</tbody>
</table>

**Videos & Tools**

Exercise 12: Is there a simple way to explain the body’s immune response to HIV and other diseases?

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Videos &amp; Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Health Videos</td>
</tr>
<tr>
<td>Click</td>
<td>Immune response from the alphabetical listing and follow the on-screen instructions</td>
</tr>
<tr>
<td>Click</td>
<td>Immune System and Disorders to the right of the page under Related MedlinePlus Health Topics</td>
</tr>
<tr>
<td>Click</td>
<td>Games under See, Play and Learn</td>
</tr>
<tr>
<td>Click</td>
<td>Play the Immune System Defender Game (Nobel Foundation)</td>
</tr>
<tr>
<td>Close</td>
<td>the pop-up window and return to the MedlinePlus Immune System and Disorders page</td>
</tr>
</tbody>
</table>

Exercise 13: Are there multimedia resources that discuss HIV/AIDS viral load?

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Videos &amp; Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>HIV AIDS viral load in the Search all Videos &amp; Tutorials search box</td>
</tr>
<tr>
<td>Click</td>
<td>Go</td>
</tr>
<tr>
<td>Click</td>
<td>a video or tutorial of your choice and follow the on-screen instructions</td>
</tr>
</tbody>
</table>
Exercise 14: Assess your risk for contracting Hepatitis C?

Suggested Solution:

Click **Videos & Tools**

Click **Health Check Tools**

Click **H** in the alphabetical listing

Click **Hepatitis Risk Assessment** (Centers for Disease Control and Prevention) under **Hepatitis C** and follow the on-screen instructions

The quizzes open in a second window. If you have a pop-up blocker, you will need to disable it to view the programs.

Close the pop-up window and return to the **Health Check Tools** page

Exercise 15: Using the Medical Encyclopedia, locate an illustration depicting Kaposi’s sarcoma.

Suggested Solution:

Click **the MedlinePlus logo** to return to the homepage of MedlinePlus

Click **Medical Encyclopedia**

Click **K** under **Find encyclopedia articles A-Z**

Click **Kaposi’s Sarcoma** from the alphabetical list

Click the graphic of your choice under **Images**
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PubMed®/MEDLINE®

PubMed is a database developed by the National Center for Biotechnology Information (NCBI) at the National Library of Medicine (NLM®) and is available free on the Web. PubMed provides free access to MEDLINE, NLM premier bibliographic database containing citations and author abstracts from various biomedical journals published in the United States and worldwide. PubMed also provides access to citations for selected articles in life science journals not included in MEDLINE and additional relevant Web sites and links to molecular biology resources. The scope of MEDLINE includes such diverse topics as microbiology, delivery of health care, nutrition, pharmacology, and environmental health.

PubMed Homepage

The PubMed homepage includes a NCBI Header, Search Bar, and Footer that are common to all PubMed pages. The NCBI Header includes a NCBI Resources drop-down menu categorized by topic, a How To menu, and the Sign In for My NCBI. The Search Bar has the database selection menu, and includes a link to Advanced search and Help. Additional Search bar selections, Really Simple Syndication (RSS), and Save search, display after running a PubMed search. Popular tools and resources are under PubMed Tools (e.g., the Single Citation Matcher, Clinical Queries, and...
Searching PubMed

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

► To search for a journal, use the Journals Database—allows searching by topic, journal title/abbreviation, International Standard Serial Number (ISSN), or browsing by subject terms

► To build a search strategy with Medical Subject Headings (MeSH) terms, use the MeSH Database—NLM-controlled MeSH vocabulary provides a consistent way to retrieve information that may use different terminology for the same concepts

► To search for specific types of references, use either Clinical Queries or Topic-Specific Queries

Filters Sidebar

Narrow your search results using the Filters option. The Filters option sidebar will appear to the left of your results. To add additional filter categories to the sidebar, click the Show additional filters link, select the additional categories, and then click Show. Multiple filters may be selected. A Filters Activated message will appear above the search results list. Filters remain in effect until removed. To deselect a filter, click the filter name again. To clear all of your filters selections, click Clear all.
HIV/AIDS INFORMATION RESOURCES FROM NLM

Search Results

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

- Links to related articles for all citations—click the **Similar articles** link below the citation
- Links to free full-text articles, if available,—click **Free Article** or **Free PubMed Central® (PMC) Article** below the citation
- Links to other NLM resources for additional information—on the right side of your Search Results page, you can locate Titles with your search terms, Find Related Data, view the detailed search string used to perform the search, and other related information

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

Advanced Search

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

My NCBI is an easy way to save and update searches on topics of continuing interest. You can choose filters that group your search results. Search updates will automatically be e-mailed to you if selected. To use My NCBI, your Web browser must accept cookies and allow pop-ups from NCBI Web pages. A cookie is information stored by a Web site server on your computer. The cookie retains user preferences such as search result filters, LinkOut® displays, institutional icon links, document delivery services, etc., across user sessions. Users may opt out of the persistent cookie selection in their My NCBI settings at any time. Click My NCBI on the right side of the NCBI header to register with My NCBI.

Ordering Documents

NLM Loansome Doc® is an automated document ordering program that allows PubMed users to order the full text of an article from a participating library. Before an order can be placed, and before a user can register, an agreement must first be established with a library that uses DOCLINE® (NLM automated interlibrary loan request and referral system). Users who are unsure about which library to contact may obtain assistance from the Regional Medical Library (RML) in their area by calling 800.338.7657, Monday-Friday, 8:30 a.m. - 5:00 p.m. in all time zones. To register with Loansome Doc go to https://docline.gov/loansome/login.cfm. During the online registration process, you will create a user account with your name, address, e-mail, and ordering preference.

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

Stay Connected

PubMed Mobile

PubMed Mobile provides a simplified, mobile-friendly Web interface to access PubMed. It includes the same basic search functionality and content as Standard PubMed; that is, all search terms and fields work similarly. https://www.ncbi.nlm.nih.gov/m/pubmed

PubMed for Handhelds


E-mail Updates

Sign up for the NLM Technical Bulletin and receive a once daily e-mail alert if an article is published or updated. https://www.nlm.nih.gov/pubs/techbull/stay_current.html
Subscribe to PubMed RSS

► **PubMed New and Noteworthy** will notify subscribers of enhancements to the PubMed, Journals, and MeSH databases.

► **PubMed-Alerts**, an announcement-only list, will notify subscribers of major system problems with PubMed.
  https://list.nih.gov/cgi-bin/wa.exe?SUBED1=pubmed-alerts&A=1

► **PMC News** will notify subscribers of changes to the PMC system.

**Additional Resources**

For further information, we recommend these additional resources:

► **PubMed Online Training**

► **PubMed Help** (An online Help book)

► **PubMed Tutorial**
  https://www.nlm.nih.gov/bsd/disted/pubmedtutorial

► **PubMed Quick Tour: Simple Subject Search**

► **PubMed Quick Tour: Search for an Author**

► **Complementary and Alternative Medicine (CAM) on PubMed**
  https://nnlm.gov/sites/default/files/migrated/cam-recommend.doc

► **LinkOut Help (NCBI)**
  https://www.ncbi.nlm.nih.gov/books/NBK3806/
**MEDLINE® and MedlinePlus®: What Is the Difference?**

**MEDLINE** is the National Library of Medicine (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 citations and abstracts. Most of the articles found in MEDLINE are very technical and written for health care professionals. MEDLINE is available free through the NLM 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 various 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 resource:

<table>
<thead>
<tr>
<th>MEDLINE</th>
<th>MedlinePlus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td>Directory</td>
</tr>
<tr>
<td>Journal citations</td>
<td>Selected links to Web resources</td>
</tr>
<tr>
<td>Professional biomedical literature</td>
<td>Web resources with authoritative health information</td>
</tr>
<tr>
<td>Health professionals</td>
<td>Patients, families, and consumers</td>
</tr>
<tr>
<td>Clinical terminology</td>
<td>Easy-to-understand language</td>
</tr>
<tr>
<td>Searchable database</td>
<td>Browse and search</td>
</tr>
</tbody>
</table>

**Value added:**

- Can be searched for free
- Selected full-text articles
- Links to some full-text journal articles via publishers' Web pages
- Selected consumer health journals
- Links to MedlinePlus
- Topic-specific queries
- Advanced search builder

**Value added:**

- Drug information
- Medical encyclopedia
- Links to other Web resources
- Link to MEDLINE searches
- Spanish version
- Surgery videos
- Multiple languages

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MEDLINE and MedlinePlus: What is the Difference? I 71
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PubMed®/MEDLINE® Search Exercises

Search Example: What information has been written about the correlation between coronary disease and HIV/AIDS?

Suggested Solution:

► Go to https://pubmed.gov

► Type coronary disease HIV AIDS in the Search box

► Click Search

► Click Show additional filters

► Select Subjects from the Additional filters box

► Click Show
► **Click AIDS**

Active Filters appear above the search results.

► **Review the citation(s) retrieved**

To remove your filter selection, click **Clear all** next to the activated filter.

► **Click the Clear input (Trashcan) button** to the right in the search box to prepare for the next search

---

**Search Exercises**

**Exercise 1: Locate citations on the role of social media in HIV prevention.**

**Suggested Solution:**

<table>
<thead>
<tr>
<th>Type</th>
<th>social media HIV in the Search box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Search</td>
</tr>
<tr>
<td>Click</td>
<td>Show additional filters</td>
</tr>
<tr>
<td>Select</td>
<td>Subjects in the additional filters pop-up box</td>
</tr>
<tr>
<td>Click</td>
<td>Show</td>
</tr>
<tr>
<td>Select</td>
<td>AIDS under Subjects</td>
</tr>
</tbody>
</table>
Exercise 2: Is the H1N1 (Swine Flu) vaccine safe for individuals with HIV?

Suggested Solution:
- Type **h1n1 vaccine** in the Search box
- Click Search
- Review the citation(s) retrieved
- Click the Clear input (🗑️) button to the right in the search box to prepare for the next search

Exercise 3: Locate articles that discuss Zika and HIV coinfection.

Suggested Solution:
- Type **zika HIV** in the Search box
- Review the citation(s) retrieved
- Click Search

Exercise 4: Locate articles that discuss whether pre-exposure prophylaxis (PrEP) can reduce a woman’s risk of becoming infected with HIV. Review related citations.

Suggested Solution:
- Type **pre-exposure prophylaxis** in the Search box
- Click Search
- Click Show additional filters
- Select Sex
Exercise 5: Find articles that discuss pain management in HIV patients with peripheral neuropathy. Sort the results by the most recent date.

Suggested Solution:

```
Click Show
Click Female under Sex
Review the citation(s) and Related citations

To remove a specific filter selection, click clear next to it.
```

Exercise 6: Locate articles that discuss taking Nevirapine 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 nevirapine mother child transmission in the Search box
Click Search
Click Show additional filters
Select Languages in the pop-up box
Click Show
Select English under Languages
Click 5 years under Publication Dates
Review the citation(s) retrieved

To remove a specific filter selection, click clear next to it.
```
Exercise 7: 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. Note that the Filters Activated portal is still displayed. You must clear the filters you do not want for this search.

Click Search

Click Show additional filters

Select Ages

Click Show

Click Child: Birth-18 years under Ages

Review the citation(s)

To remove a specific filter selection, click `clear` next to it.

Exercise 8: Locate an article written by J. Wooster titled “Opening up their doors: perspectives on the involvement of the African American faith community in HIV prevention in four communities.”

Suggested Solution:

Click Advanced under the search box

Type `African American faith` in the first Search box

Select Author from the second Search Builder drop-down menu

Type `wooster j` in the Author search box

Click Search

Review the citation


Suggested Solution:

Type `cultural competency` in the Search box

Click Search

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

Select E-mail from the Send to: drop-down menu
Select **Abstract (text)** from the **Format** drop-down menu

Type **e-mail** address in the **E-mail** box

Click **I'm not a robot** near the bottom of the e-mail pop-up

Click **E-mail**

A confirmation e-mail sent message will be displayed above the results.

**Exercise 10:** Using PubMed Central (PMC), locate free full-text articles that discuss improved adherence to HAART.

**Suggested Solution #1:**
Select **PMC** from the **Search** drop-down menu to the left of the **Search** box
Type **improved adherence haart** in the **Search** box
Click **Search**
Review the citation(s) and full-text article(s)
Click **PubMed** at the bottom of the page under **Popular**

**Suggested Solution #2:**
Click **PubMed Central** at the bottom of the homepage under **Popular**
Type **improved adherence haart** in the **Search** box
Click **Search**
Review the citation(s) and full-text article(s)
Click **PubMed** at the bottom of the page under **Popular**

**Exercise 11:** Set up a My NCBI user account and conduct a search for journal articles discussing structured antiretroviral therapy interruption.

**Suggested Solution:**
Click **Sign in to NCBI** at the top right of the PubMed page
Click **Register for an NCBI account**
Follow the directions for setting up a username and password

A checked **Keep me signed in** box saves your My NCBI preferences on your computer in a persistent cookie file. It will also retain your password so that you do not need to sign in again. When using a public computer do not check this option.

Click **PubMed** in the list of databases at the top of the page
Type **structured antiretroviral therapy interruption** in the **Search** box

Click **Search**

Click **Create alert** at the top of the screen below the search box

Select the e-mail update scheduling settings of your choice (optional)

Click **Save**

A confirmation e-mail sent message will be displayed above the results.
This page was intentionally left blank.
HIV/AIDS INFORMATION RESOURCES FROM NLM

Saving and Printing Records in PubMed®

The *Send to:* button is available on screens with search results. You can save the entire results of a specific search or selected citations. If you do not select specific citations before clicking on the *Send to:* button, you will create a file on your computer that will contain the entire search results—up to 5,000 items. Most likely you do not need all these files, so pay attention and select before you click.

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, the browser will prompt you to select where this file should be placed on your computer and give you the opportunity to rename the file.

**Saving Entire Search Results**

- Click *Send to: File* to select your formatting and sorting preferences

  The default for the File feature is to save the entire retrieval—up to 5,000 items—unless you specifically select citations. For example, if you use the *Send to: File* feature on a screen displaying 1–20 items of 2,356, your saved file will contain all 2,356 citations. Make it a practice to select before you click.

- Click *Create File*

**Saving Selected Citations from a Single Search**

- Click the checkbox next to each citation you want to save

  You can move to other pages within the search results to make more selections.

- Click *Send to: File* to select your formatting and sorting preferences

  Saving a large retrieval may take several minutes. To save citations in **Hyper Text Markup Language** (html) format, use the *Save As* function of your browser and change the file extension to html. This will save only the citations displayed on the screen, so you may wish to consider changing the number of items per page from the Display Settings.

- Click *Create File*

**Using the Clipboard**

- Click the checkbox next to each citation you want to send to the Clipboard and select **Clipboard** from the *Send to:* drop-down menu. Click *Add to Clipboard* and those items selected will automatically be saved to the Clipboard.

  Once you have added a citation to the Clipboard, the item will display a note, **Item in Clipboard**, beneath the selected citation.
If you use the Clipboard feature without selecting citations using the checkbox(es), PubMed will add all of your search results—up to 500 citations—to the Clipboard. The Clipboard will be lost after eight hours of inactivity.

Your browser must be set to accept cookies to use the Clipboard. A cookie is information stored by a Web site server on your computer. See http://www.ncbi.nlm.nih.gov/guide/browsers/ for more information.

Citations in the Clipboard are represented by the search number #0 and may be used in Boolean search statements. For example, to limit the citations you have collected in the Clipboard to English language citations, use the following search:

#0 AND English [la]

This does not affect or replace the Clipboard contents.

E-mailing Citations

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

Using My Bibliography

► Click the check box next to each citation you want to send to My Bibliography and select My Bibliography from the Send to: drop-down menu. Click Add to My Bibliography and follow the on-screen directions to add the selected items.

Using the Collections Feature

► Click the checkbox next to each citation you want to send to the Collections and select Collections from the Send to: drop-down menu. Click Add to Collections and follow on-screen directions to add the selected items.

Collections are stored indefinitely and can continue to be built over time. There is no limit to the number of collections a user may store in My NCBI.
Ordering Full-text Articles

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

After you have registered with a Loansome Doc participating library, you can order citations by clicking the checkbox 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: drop-down menu.

You may use the Clipboard to collect items from multiple searches before ordering.

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

Exporting Citations into a Reference Manager Program

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

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

Printing Your Search Results

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

To print selected items from one or more searches on a single page, use the Clipboard feature first to collect them.
Section 8: Public Health Partners
Public Health Partners

Partners in Information Access for the Public Health Workforce (PHP) is a collaboration of US government agencies, public health organizations, and health sciences libraries dedicated to providing timely, convenient access to selected public health resources on the Internet. Their mission is to help the public health workforce find and use information effectively to improve and protect the public’s health.

https://phpartners.org

The Partners

- Agency for Healthcare Research and Quality (AHRQ)
- American Public Health Association (APHA)
- Association of Schools and Programs of Public Health (ASPPH)
- Association of State and Territorial Health Officials (ASTHO)
- Centers for Disease Control and Prevention (CDC)
- Health Resources and Services Administration (HRSA)
- Medical Library Association (MLA)
- National Agricultural Library (NAL)
- National Association of County and City Health Officials (NACCHO)
- National Association of Local Boards of Health (NALBOH)
- National Library of Medicine (NLM)
- National Network of Libraries of Medicine (NN/LM)
- Public Health Foundation (PHF)
- Society for Public Health Education (SOPHE)
Content

The PHP Web site provides links to information on specific topics. Public health topics, which can be selected from the Public Health Topics menu, are Bioterrorism, Dental Public Health, Environmental Health, HIV/AIDS, How to Access Journal Articles, Nutrition, Obesity, Public Health Genomics, Veterinary Public Health, and Workforce Development.

Main Topics linked on the homepage are Health Promotion and Health Education, Literature and Guidelines, Health Data Tools and Statistics, Public Health Workforce Data, Grants and Funding, Education and Training, Legislation and Policy, Conferences and Meetings, Finding People, Discussion and E-mail Lists, and Jobs and Careers.

Links to Current Public Health News items can be found on the homepage. Links are also provided to partner-supported initiatives, including the Public Health Information and Data Tutorial and Training Manual, the Healthy People 2020 Information Access Project, the Resource Guide for Public Health Preparedness, CDC Vital Signs, and the CPH (Certified for Public Health) Study Guide.

Stay Connected

Get E-mail Updates

Subscribe to the PHPARTNERS_LINK list to receive the weekly announcement-only list of new resources. https://list.nih.gov/cgi-bin/wa.exe?SUBED1=phpartners_link&A=1

Additional Resources

For further information, we recommend these additional resources:


► Public Health Information and Data Tutorial https://phpartners.org/tutorial


Public Health Partners Search Exercises

Search Example: Find resources for state HIV/AIDS statistics.

► Go to https://phpartners.org

► Select HIV/AIDS under Public Health Topics Pages

► Click Health Data Tools and Statistics in the list of topics under HIV/AIDS

► Click State Health Facts: HIV/AIDS

► Review the information. Use the browser’s Back button to return to the Public Health Partners (PHP) Web site
Click **Home** at the top of the PHP page to prepare for the next search

**Search Exercises**

**Exercise 1: Using the search box find information on the Healthy People 2020 initiative.**

**Suggested Solution:**

<table>
<thead>
<tr>
<th>Type</th>
<th>healthy people 2020 in the <strong>Search</strong> box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Go</td>
</tr>
<tr>
<td>Review</td>
<td>the resources retrieved</td>
</tr>
<tr>
<td></td>
<td>Use the browser’s <strong>Back</strong> button to return to the Public Health Partners (PHP) Web site.</td>
</tr>
<tr>
<td>Click</td>
<td><strong>Home</strong> at the top of the PHP page to prepare for the next search</td>
</tr>
</tbody>
</table>

**Exercise 2: Review the HIV funding opportunities for community outreach initiatives.**

**Suggested Solution:**

<table>
<thead>
<tr>
<th>Click</th>
<th><strong>HIV/AIDS</strong> under Public Health Topic Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Grants and Funding in the list of topics under <strong>HIV/AIDS</strong></td>
</tr>
<tr>
<td>Click</td>
<td>AIDS Community Information Outreach Projects</td>
</tr>
<tr>
<td></td>
<td>Use the browser’s <strong>Back</strong> button to return to the PHP Web site.</td>
</tr>
<tr>
<td>Click</td>
<td><strong>Home</strong> at the top of the PHP page</td>
</tr>
</tbody>
</table>
Exercise 3: Subscribe to a HIV/AIDS e-mail communication.

Suggested Solution:
- Click **HIV/AIDS** under Public Health Topic Pages
- Click **Discussion and E-mail Lists** in the list of topics under HIV/AIDS
- Review the resource(s) of your choice and follow the online instructions to subscribe (optional)
- Use the browser’s **Back** button to return to the PHP Web site.
- Click **Home** at the top of the PHP page

Exercise 4: Locate food access data for low-income populations.

Suggested Solution:
- Click **Nutrition** under Public Health Topic Pages
- Click **Data and Statistics** in the list of topics under Nutrition
- Click **Food Access Research Atlas**
- Click **Enter the map** and follow the online instructions
- Use the browser’s **Back** button to return to the PHP Web site.
- Click **Home** at the top of the PHP page

Exercise 5: I’m planning to travel to an area where the tap water may be contaminated with Cryptosporidium. If the water is filtered, will it be safe for me to drink?

Suggested Solution:
- Click **Environmental Health** under Public Health Topic Pages
- Click **Water** in the list of topics under Environmental Health
- Click **MedlinePlus-Drinking Water (National Library of Medicine (NLM) U.S.)**
- Click **Prevention and Risk Factors** under Basics
- Click **Cryptosporidium: A Guide to Water Filters** (Centers for Disease Control and Prevention)
- Review the information retrieved
- Close the CDC pop-up window
Use the browser’s Back button to return to the PHP Web site.

Click Home at the top of the PHP page

Exercise 6: Find resources for state health data.

Suggested Solution:

Select Health Data Tools and Statistics under Main Topic Page

Click State Health Data under Health Data Tools and Statistics

Review the resource(s) of your choice

Use the browser’s Back button to return to the PHP Web site.

Click Home at the top of the PHP page to prepare for the next search
Section 9: Additional Resources
The National Minority AIDS Council (NMAC) is the premier national organization dedicated to developing leadership within communities of color to address the challenges of HIV/AIDS.

Programs and Training

- HIV/AIDS Stigma Program
- Individualized Capacity Building Assistance
- Prison Initiative
- Supporting Network of HIV CARE (SNHC) by Enhancing Primary Medical Care (EPMC)
- Women of Color Leadership Institute
Tools and Resources

► Online Resource Library
► NMAC E-Alerts
► NMAC/POZ AIDS Services Directory
► Grant Writing Tool
► NMAC Publications Resource Center (NMAC Publication Download Library)
► Calendar of Events
Office of AIDS Research

The **Office of AIDS Research** (OAR), National Institutes of Health (NIH), plans, coordinates, evaluates, and funds all NIH AIDS research and promotes collaborative research activities. Information on the Web site includes Web broadcasts and minority initiatives.

http://www.oar.nih.gov
Strategic Plan

► Trans-NIH Plan for HIV-Related Research

HIV/AIDS Information (links)

► US and Global Statistics
► Treatment and Prevention Guidelines
► CDC Interim Guidance regarding HIV infection and Swine Origin Influenza A (H1N1) virus
► Clinical Trials Information
► National Institute of Allergy and Infectious Diseases (NIAID) AIDS Information
► National Library of Medicine Resources
► Other NIH Institutes and Centers AIDS Programs
► Other Federal and International HIV/AIDS Programs
► Research on AIDS Benefits Efforts Against Diseases (information page)
CDC.gov is the Centers for Disease Control and Prevention’s primary online communication channel. The Web site includes an A-Z Index of health topics and links to publications. Information is available for individuals interested in health issues, public health professionals, researchers, media, and health care providers. The Multimedia & Tools section includes podcasts, RSS feeds, image library, a BMI (Body Mass Index) calculator, and training information. CDC.gov is also available in multiple languages.

Recommended Sections

► Minority Health  
http://www.cdc.gov/minorityhealth

► Health Equity: A Selected Bibliography  
http://www.cdc.gov/chronicdisease/healthequity

► Tools and Training  
http://www.cdc.gov/healthyyouth/tools

http://cdc.gov
Selected Internet Resources in HIV/AIDS

► AIDS.GOV  
   http://aids.gov

► AIDS Action Committee of Massachusetts  
   http://aac.org

► AIDS History Project  
   http://www.library.ucsf.edu/collections/archives/manuscripts/aids

► AIDS Images Library  
   http://www.aids-images.ch

► AIDS InfoNet  
   http://www.aidsinfonet.org

► AIDS Project Los Angeles  
   http://www.apla.org

► AIDS Treatment News  
   http://www.thebody.com/content/art31573.html

► AIDSinfo  
   https://aidsinfo.nih.gov

► Aidsmmap  
   http://www.aidsmmap.com

► All the Virology on the WWW  
   http://www.virology.net/garryfavweb.html

► American Foundation for AIDS Research (amfAR) Global Link  
   http://www.amfar.org/globallink

► American Red Cross  
   http://www.redcross.org

► Australian Federation of AIDS Organisations  
   http://www.afaq.org.au

► The Body  
   http://www.thebody.com

► Canadian AIDS Treatment Information Exchange  
   http://www.catie.ca
HIV/AIDS INFORMATION RESOURCES FROM NLM

► Canadian HIV Trials Network
  http://www.hivnet.ubc.ca/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

► Critical Path AIDS Project
  http://www.critpath.org

► GMHC on the Web Gay Men’s Health Crisis
  http://www.gmhc.org

► Healthfinder.gov
  https://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)

► HIV Databases
  http://www.hiv.lanl.gov

► HIV InSite
  http://hivinsite.ucsf.edu

► HIV/AIDS Surveillance (US Census Bureau)
  http://www.census.gov/population/international/data/hiv

► HIV/AIDS Vaccines
  http://www.niaid.nih.gov/topics/hivaids/research/vaccines

► HIVandHepatitis.com
  http://hivandhepatitis.com

► HIVdent (dental information)
  http://www.hivdent.org

► HIVpositive.com
  http://www.hivpositive.com

► How to Find Reliable HIV/AIDS Treatment Information on the Internet
► International AIDS Society  
http://www.iasociety.org

► International Association of Physicians in AIDS Care  
http://www.iapac.org

► Johns Hopkins HIV Guide  
http://www.hopkinsguides.com/hopkins/ub/index/Johns_Hopkins_HIV_Guide/All_Topics/A

► Joint United Nations Programme on HIV/AIDS  
http://www.unaids.org

► MedlinePlus AIDS  
https://medlineplus.gov/hivaids.html

► Medscape HIV/AIDS  
http://www.medscape.com/hiv

► National AIDS Treatment Advocacy Project (NATAP)  
http://www.natap.org

► National HIV/AIDS Clinicians’ Consultation Center (NCCC)  
http://www.nccc.ucsf.edu

► National Institute of Allergy and Infectious Diseases (NIAID)  
http://www.niaid.nih.gov

► National Institutes of Health (NIH) Office of AIDS Research (OAR)  
http://www.oar.nih.gov

► National Library of Medicine HIV/AIDS Portal / AIDSource  

► National Minority AIDS Council  
http://nmac.org

► National Prevention Information Network  
http://www.cdcnpin.org

► NIAID Division of Acquired Immunodeficiency Syndrome  
https://www.niaid.nih.gov/about/daids

► Partners in Information Access for the Public Health Workforce—HIV  
https://phppartners.org/hivaids.html

► Positive.org  
http://www.positive.org/Home
► Project Inform  
   http://www.projectinform.org

► PubMed  
   https://pubmed.gov

► PubMed Instructional Materials (NLM)  

► PubMed Tutorial (NLM)  

► Rural Center for AIDS/STD Prevention  
   http://www.indiana.edu/~aids

► San Francisco AIDS Foundation  
   http://www.sfaf.org

► Social Security Administration  
   https://www.ssa.gov

► US Department of Health and Human Services  
   https://www.hhs.gov

► US Food and Drug Administration, HIV and AIDS  
   http://www.fda.gov/ForPatients/Illness/HIVAIDS

► World Health Organization, HIV/AIDS  
   http://www.who.int/hiv/en/

► World Health Organization, Tuberculosis  
   http://www.who.int/tb/en
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://ama-assn.org/ama

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

BioMed Central

https://www.biomedcentral.com/journals

Free access to a wide variety of more than 100 journals and other services. The Quick Search feature allows searching of BioMed Central, and also PubMed and PubMed Central.

CDC Diseases and Conditions

http://www.cdc.gov/DiseasesConditions

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

CDC Environmental Health

http://www.cdc.gov/nceh

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

Center for Drug Evaluation and Research

http://www.fda.gov/drugs

This site includes information about prescription and over-the-counter drugs, drug safety, and links to major drug information pages. From the US Food and Drug Administration.
ClinicalTrials.gov
https://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; 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.

US Food and Drug Administration
http://www.fda.gov
Provides links to FDA resources, including research information on food, drugs, biologics, cosmetics, medical devices, tobacco, and toxicology.

Health Disparities/CDC Minority Health
http://www.cdc.gov/minorityhealth
Links to extensive information on health disparities organized on the homepage by Topics, Quick Links, Key Resources, Programs and Campaigns, and other features.

Health Literacy
http://www.hrsa.gov/publichealth/healthliteracy
The US Department of Health and Human Services, Health Resources and Services Administration, offers health literacy tools for public health professionals.
Healthfinder

https://healthfinder.gov

A Web site of the US government with links to accurate, reliable consumer health information.

Healthy People 2020

https://www.healthypeople.gov

A health initiative for the nation coordinated by the Office of Disease Prevention and Health Promotion of the US Department of Health and Human Services. The overarching goals of Healthy People 2020 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.

Healthy People 2010 Information Access Project

https://phpartners.org/hp2020/index.html

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. It provides links to relevant full-text resources on NLMs Web site. This site is a pilot project funded by the National Library of Medicine with assistance from the Public Health Foundation and the National Network of Libraries of Medicine. Feedback is requested for project expansion to all HP2010 focus areas.

Healthy Schools Healthy Youth

http://www.cdc.gov/healthyyouth

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

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 HealthNews of the week, Diseases & Conditions, Image Collection, Symptom Checker, Med Terms Dictionary, and Medication Information.
MedlinePlus
https://medlineplus.gov
A consumer health Web site from the National Library of Medicine, provides health professionals and consumers a wealth of authoritative, up-to-date medical information on diseases and medical conditions. Resources include lists of hospitals and physicians, a medical encyclopedia, a medical dictionary, extensive information on prescription and nonprescription 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 integrated medical information and education tools to medical specialists, primary care physicians, and other health professionals. 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 send the specialty page that best fits your profile.

My Family Health Portrait
https://familyhistory.hhs.gov
A tool from the US Surgeon General that allows users to create a family tree (drawing) and a 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 be included. Also, the drawing and the report can be printed and shared with family members and personal physicians. Also available in Spanish, Italian, and Portuguese.

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

http://www.nmanet.org

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

National Women’s Health Information Center

http://www.womenshealth.gov

This site offers information on more than 800 health topics specifically for women and it operates a call center. Includes information on special populations and information in Spanish. From the US Department of Health and Human Services, Office on Women’s Health.

NIH Health Information

https://www.nih.gov/health-information

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.

Office of Minority Health, US Department of Health and Human Services

http://www.minorityhealth.hhs.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, nonprofit/national advocacy/private organizations, and minority group health sites.

Public Health Partners (PHP)

https://phpartners.org

A collaboration of US 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

https://phpartners.org/tutorial

This tutorial from Public Health Partners (PHP) 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.

PubMed®/MEDLINE®

https://pubmed.gov

One of NLM’s free search services. It provides access to citations in MEDLINE® with links to participating online journals.

Rural Health Information Hub

https://www.ruralhealthinfo.org/states

The Rural Health Information Hub (RHIhub) is an information portal supported by the US Department of Health and Human Services’ Federal Office of Rural Health Policy. Its objective is to provide rural communities and stakeholders access to the full range of programs, funding, and research available to enable them to provide quality health and human services to rural residents.

Virtual Pediatric Hospital

http://www.virtualpediatrichospital.org

Virtual Pediatric Hospital is a digital library of pediatric information and is the Apprentice’s Assistant™.

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 more than 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 Supplement.
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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?
Contact the National Library of Medicine for Database Assistance

Toll-free: 888.FIND.NLM (346.3656)
E-mail: custserv@nlm.nih.gov

Online Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>URL</th>
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<tbody>
<tr>
<td>National Library of Medicine Training Center</td>
<td><a href="https://nnlm.gov/ntc">https://nnlm.gov/ntc</a></td>
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See Help and FAQ links on each database homepage.

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: https://nnlm.gov