Preface

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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Disclaimer

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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**— 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.
Section 2:
Navigating the Web for Health Information
Navigating the Web for Health Information

Finding Quality Health Information on the Internet

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.

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 reference page in the back of this workbook.

Additional Resources

For further information, we recommend these additional resources:

- HON Code of Conduct for Medical and Health Websites — [http://www.hon.ch/HONcode](http://www.hon.ch/HONcode)
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 website 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/espanol

*Note: In FY20 AIDSource will be transitioning to the U.S. Department of Health & Human Services*
Organization and Topics
The links on AIDSource are organized into several primary topic areas:

- **Basic HIV/AIDS Information** — fact sheets, general information, and organizations
- **Community Engagement** — features NLM’s HIV/AIDS outreach efforts in communities
- **Funding Opportunities** — links to organizations providing HIV/AIDS funding opportunities
- **HIV Navigation Resources** — tools and resources related to HIV such as peer navigators, peer programs, and interventions
- **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; housing and housing assistance; immunizations; mental and emotional health; oral health; recently diagnosed and living well with HIV; tobacco use; 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 websites
- **Multimedia** — audio, video, photos, illustrations, and slide sets
- **Multiple Languages** — HIV/AIDS prevention and treatment information in multiple languages
- **News Resources** — blogs, news, and newsletters/e-news publications
- **PrEP Navigation Resources** — resources with information about PrEP navigation
- **Research** — clinical trials, prevention and treatment research, tools and information services, research organizations, and vaccine research
- **Specific Populations** — HIV/AIDS information for various populations
- **Statistics and Surveillance** — data for geographic locations and populations
- **Training Resources** — training on prevention and treatment
- **HIV Conference Abstracts** — links to abstracts from HIV-related conferences
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/researchers, multilingual speakers, 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 Websites

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

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 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:

<table>
<thead>
<tr>
<th>Click</th>
<th>the Browse HIV/AIDS Topics button at the top of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Living with HIV/AIDS</td>
</tr>
<tr>
<td>Click</td>
<td>Mental and Emotional Health</td>
</tr>
<tr>
<td>Review</td>
<td>the available resources</td>
</tr>
</tbody>
</table>

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

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>the Select Audience drop-down at the top right of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Health Professionals/Researchers</td>
</tr>
<tr>
<td>Review</td>
<td>the available resources</td>
</tr>
</tbody>
</table>

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

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>the Search button (🔍) at the top right of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter</td>
<td>hepatitis in the search box</td>
</tr>
<tr>
<td>Click</td>
<td>the Search button</td>
</tr>
<tr>
<td>Review</td>
<td>the search results returned</td>
</tr>
</tbody>
</table>

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.
Exercise 4: Using the HIV.gov testing and services widget located at the bottom left of the homepage, locate HIV/AIDS services and resources in your area.

Suggested Solution:

Enter your city and state or zip code in the search bar.

Click the Search button ( )

Review the search result returned.
Disclaimer

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Section 4: AIDSinfo®
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).

https://aidsinfo.nih.gov

*Note: In FY20 AIDSinfo will be transitioning to the U.S. Department of Health & Human Services
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

- **Research** — locate HIV-related research information from the NLM, National Institute of Allergy and Infectious Diseases (NIAID), and NIH’s Office of AIDS Research (OAR)

Additional features offered in AIDSinfo include the following:

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

- **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 link 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.

Research

Browse research resources and information from NIH, NIAID, and OAR.
Stay Connected

Mobile-Friendly

The AIDSinfo website 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/Mobile Websites

Download AIDSinfo guidelines, drug database, and glossary 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

Sign up at https://aidsinfo.nih.gov/e-news

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:

- infoSIDA — https://infosida.nih.gov
AIDSinfo® Search Exercises

Search Example: Locate the latest guidance on initiation of antiretroviral therapy in adults and adolescents living with HIV.

Suggested Solution:

- Go to [https://aidsinfo.nih.gov](https://aidsinfo.nih.gov)
- Click **Guidelines**
  - Click **Full Version** under Adult and Adolescent ARV
  - Click **Initiation of Antiretroviral Therapy** in the left navigation menu
• Review the section and click the Home tab to return to the AIDSinfo homepage.
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 [Full Version] under Caring for Persons with HIV in Disaster Areas
- Click [Full Guideline] under Download Guidelines
- Review the guidelines and then close the window

Exercise 2: Conduct a guideline search for baseline evaluation guidance for newly diagnosed adult and adolescent patients entering into care.

Suggested Solution:

- Click [Guidelines] at the top of the page
- Type [baseline evaluation] in the Search box under Guidelines Search
- Click the Search button ( )
- Select Adult and Adolescent ARV under Refine Search
- Click Baseline Evaluation | Adult and Adolescent ARV
- 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 [Full Version] under 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 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 View 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
- Review the information provided
- Close the browser’s Back button to return to the Understanding HIV/AIDS page
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 HIV Treatment
Click What’s a Blip? infographic
Review the information on blip
Close 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 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:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs at the top of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>M under the Browse Drug Name A-Z section</td>
</tr>
<tr>
<td>Click</td>
<td>Maraviroc (HIV Treatment)</td>
</tr>
<tr>
<td>Scroll</td>
<td>to What side effects can maraviroc cause?</td>
</tr>
</tbody>
</table>

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

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs at the top of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Filter by approval status, drug class, and condition under the Search Drugs box</td>
</tr>
<tr>
<td>Select</td>
<td>Investigational under the Approval: section</td>
</tr>
<tr>
<td>Select</td>
<td>Integrase Inhibitors under the Class: section</td>
</tr>
<tr>
<td>Click</td>
<td>the Update button</td>
</tr>
<tr>
<td>Click</td>
<td>an investigational Integrase Inhibitor of your choice</td>
</tr>
<tr>
<td>Click</td>
<td>research studies under Where can I get more information about clinical trials studying…..?</td>
</tr>
<tr>
<td>Click</td>
<td>a clinical trial record of your choice</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs at the top of the page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>descovy in the Search box</td>
</tr>
<tr>
<td>Click</td>
<td>the Search button</td>
</tr>
<tr>
<td>Click</td>
<td>descovy</td>
</tr>
</tbody>
</table>
Click **Tablet (film coated)** under **FDA Label(s)** to the left of the page

Click **Dosage & Administration** under **FDA Drug Label Sections**

Review the information under **Dosage Forms and Strengths**

**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

Click **Dosage & Administration** under **FDA Drug Label Sections**

Review the information for pediatric patients

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

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
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 the 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 to the bottom right 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)
Research

Exercise 25: Browse the research section.

Suggested Solution:

Click Research at the top of the page

Click Go to OAR’s Resources for Researchers

Review a list of federal resources for researchers who work in HIV or related areas

Close the browser to return to the AIDSinfo 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.

Searching ClinicalTrials.gov

ClinicalTrials.gov study search options and search help resources are located on the right side of the homepage. Users can begin a new 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.
**New Search** – You can search by status, condition or disease, other terms, and/or country. To conduct a new search, start with the box labeled **Find a Study** on the homepage, or select **New Search** from the **Find Studies** drop-down menu at the top of the homepage.

**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 Find Studies drop-down menu.
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.
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, phase or documents; 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.
Additional Resources

For further information, we recommend these additional resources:

- Prescription for Success: Consumer Health on the Web —
  https://nnlm.gov/class/prescription-success-consumer-health-web/6563

- ClinicalTrials.gov Background Information and Other Consumer Health Information —
  https://clinicaltrials.gov/ct2/about-site

- ClinicalTrials.gov Online Training — https://clinicaltrials.gov/ct2/manage-recs/present

- 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

- 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 Coronavirus.
Suggested Solution:

- Click Find Studies
- Click New Search
- Type Coronavirus in the Condition/Disease box under Search
- Click Search 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
- Review record(s) of your choice

Exercise 3: Is there any evidence that Vitamin D 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 Vitamin D 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 Return to list at the top of the page to return to the list results
Click Modify Search at the top left of the page
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
Type post-traumatic stress disorder in the Condition/Disease box
Select Studies With Results from the Study Results drop-down menu
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: Recruitment 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.

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

Click See Studies by Topic

Click By Category under Dietary Supplements in the table of contents

Click Herbal and Botanical

Type Saw Palmetto in the Find in table box

Click Saw Palmetto

Review record(s) of your choice

*By default the system retrieves 25 records per page.
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
- Scroll to Observational Study
- 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
- Scroll to the phrase Human subjects protection review board
- Review the definition of a human subjects protection review board
- Scroll to the word Protocol
- Review the definition of a protocol
Section 6: MedlinePlus®
MedlinePlus®

MedlinePlus is NLM’s answer to consumer-friendly, authoritative health information. It contains health information especially written for consumers and patients by the National Institutes of Health and other trusted sources. MedlinePlus contains information on 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
- No advertising or endorsements
- Easy-to-navigate pages
- Latest health news
- New links added daily
- 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 website in Spanish, click the Español button 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 systems, disorders and conditions, diagnosis and therapy, health and wellness, and demographic groups. Read about symptoms, causes, treatment and prevention for diseases, illnesses, health conditions, and wellness issues.

Drugs & Supplements can be browsed alphabetically by brand or generic names. Learn about your prescription drugs and over-the-counter medicines, including side effects, dosage, special precautions, and more. Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions.

Videos & Tools contains multimedia health resources, including calculators, quizzes, games, interactive tutorials, and anatomy and surgery videos.

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

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

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:

- About MedlinePlus — [https://medlineplus.gov/about](https://medlineplus.gov/about)
- Evaluating Internet Health Information: A Tutorial from the National Library of Medicine — [https://medlineplus.gov/webeval](https://medlineplus.gov/webeval)
- Information for Librarians and Trainers — [https://medlineplus.gov/training](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](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 **Start Here** under On this page
• 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>
<tr>
<td>Click</td>
<td>Dental Health from the alphabetical list of topics</td>
</tr>
<tr>
<td>Review</td>
<td>the information</td>
</tr>
<tr>
<td>Click</td>
<td>Patient Handouts under For You</td>
</tr>
</tbody>
</table>

Exercise 3: Find information about HIV/AIDS and older adults.

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Health Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>A under Find topics A-Z</td>
</tr>
<tr>
<td>Click</td>
<td>AIDS see HIV/AIDS from the alphabetical list</td>
</tr>
<tr>
<td>Click</td>
<td>Older Adults under For You</td>
</tr>
<tr>
<td>Click</td>
<td>HIV, AIDS, and Older People under Older Adults</td>
</tr>
<tr>
<td>Close</td>
<td>NIH National Institute on Aging window and return to the MedlinePlus HIV/AIDS page</td>
</tr>
</tbody>
</table>
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 Specifics under Learn More
Select a topic of interest about the Flu Shot
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-9 see Human Papillomavirus (HPV) Vaccine
- Click **What are the risks of a vaccine reaction?**
- Review the information retrieved
- Click **Why get vaccinated?**
- 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:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs &amp; Supplements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>All herbs and supplements</td>
</tr>
<tr>
<td>Click</td>
<td>G</td>
</tr>
<tr>
<td>Click</td>
<td>Garlic NIH (National Center for Complementary and Integrative Health)</td>
</tr>
<tr>
<td>Scroll</td>
<td>to What do we Know about Safety?</td>
</tr>
<tr>
<td>Review</td>
<td>the information retrieved</td>
</tr>
<tr>
<td>Close</td>
<td>the NCCIH window and return to the MedlinePlus Herbs and Supplements page</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Click</th>
<th>Drugs &amp; Supplements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>All herbs and supplements</td>
</tr>
<tr>
<td>Click</td>
<td>Astragalus NIH (National Center for Complementary and Integrative Health) in the alphabetical list</td>
</tr>
<tr>
<td>Scroll</td>
<td>to What do we Know about Safety</td>
</tr>
<tr>
<td>Review</td>
<td>the information retrieved</td>
</tr>
<tr>
<td>Close</td>
<td>the NCCIH window and return to the MedlinePlus Herbs and Supplements page</td>
</tr>
<tr>
<td>Repeat</td>
<td>the steps for: Cat’s Claw, Goldenseal, and Tea Tree Oil.</td>
</tr>
</tbody>
</table>
Exercise 11: Locate the HIV/AIDS Medicines page.

Suggested Solution:
- Click Drugs & Supplements
- Click HIV/AIDS Medicines under Related Topics
- Review the content on the page

Videos & Tools

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

Suggested Solution:
- Click Videos & Tools
- Click Health Videos
- Click Immune response from the alphabetical listing and follow the on-screen instructions
- Click Immune System and Disorders to the right of the page under Related MedlinePlus Health Topics
- Click Health Check Tools under See, Play and Learn
- Click Immune System Quiz (Nemours Foundation)
- Close the pop-up window and return to the MedlinePlus Immune System and Disorders page

Exercise 13: Are there multimedia resources that discuss the link between Drugs and HIV/AIDS?

Suggested Solution:
- Click Videos & Tools
- Type Drugs and HIV in the Search all Videos & Tutorials search box
- Click Go
- Click the video Drugs Facts NIH (National Institute on Drug Abuse)
- Click any of the videos of your choice on the right side of the page under View Videos

The videos open in a NEW window. Make sure you disable all pop-up blockers to view any videos.
Exercise 14: Using the Medical Encyclopedia, locate an illustration depicting Kaposi’s sarcoma.

Suggested Solution:

1. Click the MedlinePlus logo to return to the homepage of MedlinePlus
2. Click Medical Encyclopedia
3. Click K under Find encyclopedia articles A-Z
4. Click Kaposi’s Sarcoma from the alphabetical list
5. Click the graphic of your choice under Images
Section 7: PubMed®
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 articles in the PubMed Central (PMC) free full text archive, including articles that report on research funded by NIH; and citations for books from the NCBI online Bookshelf. The scope of MEDLINE includes a wide range of biomedical and health topics such as microbiology, social sciences, diseases and conditions, genetics, pharmacology, environmental health, and chemical and physical sciences.

PubMed Homepage

The PubMed homepage includes the search box, which allows you to perform a basic search or access the Advanced Search Builder for a more customized search. The homepage includes access to FAQs, a user guide, and options for more advanced and specialized searching. You can search specific clinical research areas such as clinical studies, systematic reviews, and medical genetics using the Clinical Queries feature. In addition, you can build a search strategy with MeSH terms, which provide a consistent way to retrieve information that may use different terminology for the same concepts. The PubMed homepage also displays a “Trending Articles” section, which highlights articles of recent increased interest and a “Latest Literature” section, which links users to new articles from highly accessed journals.

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, you may search by the complete journal title, the International Standard Serial Number (ISSN), or by the MEDLINE journal title abbreviation.

- 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 Clinical 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 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.
**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 10 citations per page. Search results include the following:

- A summary of each result with key information about each article such as, the article title, citation, article “tags” (Review or Clinical Trials), if free full-text from PMC or other publishers are available, and a cite button to access formatted citations for importing into citation manager software.

- Options to save multiple citations, email results, create an alert to save a search and receive automatic e-mails through My NCBI.

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 options to refine and focus a search: Search Builder, Search History, and Search Details. Search Builder allows creation of a search using Boolean operators. Using the advanced search builder 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. Clicking on the Actions field 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.
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 website 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 Login on the right side of the NCBI header to register with My NCBI.

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Subscribe to PubMed RSS


Additional Resources

For further information, we recommend these additional resources:
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
- Health videos
- Multiple languages
PubMed® Search Exercises

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

Suggested Solution:

- Go to https://pubmed.ncbi.nlm.nih.gov
- Type coronary disease HIV AIDS in the Search box
- Click Search

- Click Filters and then Additional filters
- Select Subject from the Additional filters box

- Select AIDS checkbox
- Click Show

Active Filters appear above the search results. To remove your filter selection, click Clear all next to the activated filter.

- Click AIDS (lower left column)
• Review the citation(s) retrieved
• Click the X 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:

Type social media in the Search box
Click Search
Click Additional filters
Select Subject in the additional filters pop-up box
Select AIDS
Click Show
Select AIDS under Subjects
Review the citation(s) retrieved
Click Click the X in the search box to prepare for the next search

The Filters Applied message appears above the search results. Future searches will be limited to the AIDS subset of PubMed until the filter is cleared.

Exercise 2: Is the flu vaccine safe for individuals with HIV?
Suggested Solution:

Type flu vaccine in the Search box
Click Search
Review the citation(s) retrieved
Click Click the X in the search box to prepare for the next search

The Filters Activated message is still displayed. You are still searching the AIDS subset of PubMed.

Exercise 3: Locate articles that discuss Zika and HIV co-infection.
Suggested Solution:

Type zika HIV in the Search box
Click Search
Review citation(s) retrieved
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 Additional filters

Select Sex

Select Female

Click Show

Click Female under Sex

Review the citation(s) and related citations

To remove a specific filter selection, deselect the box next to the filter or click clear all.

Exercise 5: Find articles that discuss pain management in HIV patients with peripheral neuropathy. Sort the results by the most recent date.

Suggested Solution:

Type pain management peripheral neuropathy in the Search box

Click Search

Click Sorted by: Best match under the search box to the right

Select Most recent from the Sort by drop down menu

Review the citation(s) retrieved

The Sort by: Most Recent is still activated. Future searches will be limited to the most recent publications until you change this filter.
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:

<table>
<thead>
<tr>
<th>Type</th>
<th>nevirapine mother child transmission in the Search box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Search</td>
</tr>
<tr>
<td>Click</td>
<td>Additional filters</td>
</tr>
<tr>
<td>Select</td>
<td>Language</td>
</tr>
<tr>
<td>Select</td>
<td>English</td>
</tr>
<tr>
<td>Click</td>
<td>Show</td>
</tr>
<tr>
<td>Select</td>
<td>English under Language</td>
</tr>
<tr>
<td>Click</td>
<td>5 years under Publication Dates</td>
</tr>
<tr>
<td>Review</td>
<td>the citation(s) retrieved</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Type</th>
<th>cytomegalovirus retinitis foscarnet ganciclovir in the Search box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Search</td>
</tr>
<tr>
<td>Click</td>
<td>Additional filters</td>
</tr>
<tr>
<td>Select</td>
<td>Age</td>
</tr>
<tr>
<td>Click</td>
<td>Child: birth-18 years</td>
</tr>
<tr>
<td>Click</td>
<td>Show</td>
</tr>
<tr>
<td>Click</td>
<td>Child: birth-18 years under Age</td>
</tr>
<tr>
<td>Review</td>
<td>the citation(s)</td>
</tr>
</tbody>
</table>
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 **Search** box

Click **Add**

Select **Author** from the All Fields drop-down menu

Type **wooster j** in the **Author** search box

Click **And**

Click **Search**

Review the citation


Next, e-mail a record to yourself in text form.

Suggested Solution:

Type **cultural competency** in the **Search box**

Click **Search**

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

Select the **Email button** below the **Search box**

Complete the required fields

Click **Send email**

A confirmation e-mail sent message will display
Exercise 10: Using PubMed Central (PMC), locate free full-text articles that discuss improved adherence to HAART.

Suggested Solution:

- 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 Log in at the top right of the PubMed page
- Click Sign up at the bottom of the page next to New here?
- Click Create new NCBI Account
- Follow the directions for setting up a username and password
- Click Sign up
- 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 and a confirmation e-mail sent message will display

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.
Saving and Printing Records in PubMed®

The Save 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 Save button, you will create a file on your computer that will contain the entire search results 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.

Saving Entire Search Results

- Click Save to select your formatting and sorting preferences

The default for the Save citations to file feature is to save the entire retrieval—up to 5,000 items—unless you specifically select citations. For example, if you use the Save 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 Save 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. 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 website server on your computer. See https://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 Email from under the search box
- Select your formatting and sorting preferences
- Enter an e-mail address. Only one is permitted (to prevent spam).
- Add additional text if you wish
- Click email

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 and selected citations will automatically be saved.

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. Follow the on-screen directions and click Add to save 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.

Free Full-text Articles

PubMed search results do not include the full text of the journal article, but the abstract view in PubMed includes links to the full text from other sources when available, such as the publisher’s website or the PubMed Central (PMC) database. The full-text journal site may require a fee or subscription, however online journals sometimes provide free access. Access may also be available through your organization, or local medical library.
You may be able to obtain free copies of full-text articles in these ways:

- Free full text filter
- PubMed Central
- From the Publisher
- If you are affiliated with a hospital, university, or other institution
- Local Library

**Exporting Citations into a Reference Manager Program**

To export records to your reference management software, use **Send to File** and select the PubMed format. A .CSV format is also available.

**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 (NNLM)
- Public Health Foundation (PHF)
- Society for Public Health Education (SOPHE)
Content

The PHP website provides links to information on specific topics. Public health topics, which can be selected from the **Public Health Topics** menu include, Bioterrorism, Dental Public Health, Environmental Health, HIV/AIDS, Nutrition, Obesity, Public Health Genomics, and Veterinary Public Health.

**Main Topics** linked on the homepage are Public Health Resources; Health Data, Tools and Statistics; Health Education, Promotion and Campaigns; Literature, Reports & Guidelines; Legislation and Policy; Grants and Funding; Healthy People 2020 Structured Evidence Queries; and Health Topics.

Links to **Current Public Health News** items can be found on the homepage. Links to **Upcoming Events** are also located on the homepage.

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](https://list.nih.gov/cgi-bin/wa.exe?SUBED1=phpartners_link&A=1)

**Additional Resources**

For further information, we recommend these additional resources:

- Partners in Information Access for the Public Health Workforce Trifold — [https://phpartners.org/static/phpartners_public/pdf/phpartners_trifold.pdf](https://phpartners.org/static/phpartners_public/pdf/phpartners_trifold.pdf)


Public Health Partners Search Exercises

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

Suggested Solution:

- Go to https://phpartners.org
- Select HIV/AIDS under Health Topics

- Click Health Data Tools and Statistics in the list of topics under HIV/AIDS
• Click **State Health Facts: HIV/AIDS**

  **State Health Facts: HIV/AIDS** - Resource includes information on annual rates of HIV/AIDS diagnoses and deaths, federal HIV/AIDS funding, AIDS spending and enrollment, HIV and Medicaid, HIV prevention programs, HIV in prisons, and other relevant indicators. (Kaiser Family Foundation [KFF])

  **State Health Profiles** - Profiles present an overview of the burden of HIV/AIDS, viral hepatitis, STDs, and TB in the United States, all 50 states, and Washington, D.C. The profiles present the latest nationally representative data as well as information about prevention and control programs that CDC supports nationally and in each state. Select the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHSTP), CDC

• **Review** the information.

• **Close the browser to return** to the Public Health Partners (PHP)

• **Click Menu** at the top right corner of the PHP page

• **Click Home** 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 Search box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>Search</td>
</tr>
<tr>
<td>Review</td>
<td>the resources retrieved that interest you</td>
</tr>
<tr>
<td>Click</td>
<td>Menu at the top of the PHP page</td>
</tr>
<tr>
<td>Click</td>
<td>Home to prepare for the next search</td>
</tr>
</tbody>
</table>

Use the browser’s back button or close the browser to return to the Public Health Partners (PHP) website.

Exercise 2: Review the HIV funding opportunities.

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Health Topics from the homepage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>HIV/AIDS</td>
</tr>
<tr>
<td>Click</td>
<td>Grants and Funding in the list of topics under HIV/AIDS</td>
</tr>
<tr>
<td>Review</td>
<td>an opportunity of your choice</td>
</tr>
<tr>
<td>Click</td>
<td>Menu at the top of the PHP page</td>
</tr>
<tr>
<td>Click</td>
<td>Home to prepare for the next search</td>
</tr>
</tbody>
</table>

Exercise 3: Subscribe to a HIV/AIDS e-mail communication.

Suggested Solution:

<table>
<thead>
<tr>
<th>Click</th>
<th>Health Topics from the homepage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>HIV/AIDS</td>
</tr>
<tr>
<td>Click</td>
<td>Discussion and E-mail Lists in the list of topics under HIV/AIDS</td>
</tr>
<tr>
<td>Review</td>
<td>the resource(s) of your choice and follow the online instructions to subscribe (optional)</td>
</tr>
<tr>
<td>Click</td>
<td>Menu at the top of the PHP page</td>
</tr>
<tr>
<td>Click</td>
<td>Home to prepare for the next search</td>
</tr>
</tbody>
</table>
Exercise 4: Locate food access data for low-income populations.

Suggested Solution:

1. Click **Health Topics** from the homepage
2. Click **Nutrition**
3. Click **Data and Statistics** in the list of topics under *Nutrition*
4. Click **Food Access Research Atlas**
5. Click **Enter the map** and follow the online instructions
6. Click **Menu** at the top of the PHP page
7. Click **Home** to prepare for the next search

Exercise 5: Locate health education and promotion information related to preventative care.

Suggested Solution:

1. Click **Health Education, Promotion, & Campaigns** from the homepage
2. Click **Preventive Health Services**
3. Review the resource(s) of your choice
4. Close the pop-up windows
5. Click **Menu** at the top of the PHP page
6. Click **Home** to prepare for the next search

Exercise 6: Find resources for state health data.

Suggested Solution:

1. Select **Health Data, Tools and Statistics** from the homepage
2. Click **State Health Data**
3. Review the resource(s) of your choice
4. Click **Menu** at the top of the PHP page
5. Click **Home** to prepare for the next search
Section 9: Additional Resources
National Minority AIDS Council

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

http://www.nmac.org/

**Programs and Training**
- HIV/AIDS Stigma Program
- Individualized Capacity Building
- Assistance Prison Initiative
- Supporting Network of HIV CARE (SNHC) by Enhancing Primary Medical Care (EPMC)
- 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 website includes web broadcasts and minority initiatives.

https://www.oar.nih.gov

Research Priorities

- HIV Policy and Research
- Trans-NIH HIV Research Program

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)
Centers for Disease Control and Prevention (CDC)

**CDC.gov** is the Centers for Disease Control and Prevention’s primary online communication channel. The website 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.

![Image of CDC website](https://www.cdc.gov)

**Recommended Sections**

- Minority Health — [https://www.cdc.gov/minorityhealth](https://www.cdc.gov/minorityhealth)
- Health Equity: A Selected Bibliography — [https://www.cdc.gov/chronicdisease/healthequity](https://www.cdc.gov/chronicdisease/healthequity)
HIV.gov

HIV.gov is the federal government’s leading source for information about HIV. Initiated by the U.S. Department of Health and Human Services (HHS), HIV.gov collaborates with departments and agencies across the federal government to provide HIV/AIDS-related information to users. The website provides the latest HIV/AIDS prevention, education, testing, treatment, and research information.

https://www.hiv.gov
Selected Internet Resources in HIV/AIDS

- HIV.GOV — https://www.hiv.gov
- AIDS Action Committee of Massachusetts — https://aac.org
- AIDS History Project — https://www.library.ucsf.edu/archives/aids
- AIDS Images Library — https://www.aids-images.ch
- AIDS InfoNet — http://www.aidsinfonet.org
- AIDS Project Los Angeles — https://www.apla.org
- AIDS Treatment News — https://www.thebody.com/content/art31573.html
- AIDSmap — http://www.aidsmap.com
- All the Virology on the WWW — http://www.virology.net/garryfavweb.html
- American Foundation for AIDS Research (amfAR) Global Link — https://www.amfar.org/globallink
- American Red Cross — https://www.redcross.org
- Australian Federation of AIDS Organisations — https://www.afao.org.au
- The Body — https://www.thebody.com
- Canadian AIDS Treatment Information Exchange — https://www.catie.ca
- Canadian HIV Trials Network — http://www.hivnet.ubc.ca
- Center for AIDS Prevention Studies — https://prevention.ucsf.edu/about/caps
- Centers for Disease Control and Prevention (CDC) HIV/AIDS — https://www.cdc.gov/hiv
- Critical Path AIDS Project — https://critpath.org
- Health Resources and Services Administration (HRSA) HIV/AIDS Program: Caring for the Underserved — https://hab.hrsa.gov
- Health Services/Technology Assessment Text (HSTAT) — https://www.ncbi.nlm.nih.gov/books/NBK16710
- HIV Databases — https://www.hiv.lanl.gov
- HIV InSite — http://hivinsite.ucsf.edu
- HIVandHepatitis.com — http://hivandhepatitis.com
- HIVdent (dental information) — http://www.hivdent.org
- HIVpositive.com — https://www.hivpositive.com
- International AIDS Society — https://www.iasociety.org
- International Association of Physicians in AIDS Care — https://www.iapac.org
- Johns Hopkins HIV Guide — https://www.hopkinsguides.com/hopkins/index/Johns_Hopkins_HIV_Guide/All_Topics/A
- National HIV/AIDS Clinicians’ Consultation Center (NCCC) — http://www.nccc.ucsf.edu
- National Institute of Allergy and Infectious Diseases (NIAID) — https://www.niaid.nih.gov
- NIAID Division of Acquired Immunodeficiency Syndrome — https://www.niaid.nih.gov/about/daids
- Positive.org — http://www.positive.org/Home
- Rural Center for AIDS/STD Prevention — https://rcap.indiana.edu
- San Francisco AIDS Foundation — https://www.sfaf.org
- Social Security Administration — https://www.ssa.gov
- World Health Organization, HIV/AIDS — https://www.who.int/health-topics/hiv-aids
- World Health Organization, Tuberculosis — https://www.who.int/health-topics/tuberculosis
Selected Internet Resources in Health

Agency for Healthcare Research and Quality
https://www.ahrq.gov
Although this website 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
https://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
https://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
https://www.cdc.gov/nced
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
https://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 the most recent clinical research studies.
CNN Health
https://www.cnn.com/health
Health links to Cable News Network news stories regarding health concerns.

Directory of Open Access Journals
https://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
https://www.doctorguide.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
https://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
https://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
https://www.hrsa.gov/about/organization/bureaus/ohe/health-literacy/index.html
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 website 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 2020 Information Access Project**

https://phpartners.org/ph_public/hp2020

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 2020 focus areas to make current information and evidence-based strategies related to the HP2020 objectives easier to find. It provides links to relevant full-text resources on NLMs website. 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 HP2020 focus areas.

**Healthy Schools Healthy Youth**

https://www.cdc.gov/healthyyouth

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

**MedicineNet**

https://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 website 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®
https://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
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 website 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
https://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
https://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
https://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 Data, Tools and Statistics; Health Education, Promotion and Campaigns; Literature, Reports and Guidelines; Legislation and Policy; Grants and Funding; Education and Training; E-mail Lists, and Jobs and Careers.

PubMed®
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
https://www.virtualpediatrichospital.org
Virtual Pediatric Hospital is a digital library of pediatric information and is the Apprentice’s Assistant™.

WebMD®
https://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.
Savvy Health Surfing

Questions to Ask About Health-Related Websites

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 website 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>
</tr>
</thead>
<tbody>
<tr>
<td>National Library of Medicine Training Center</td>
<td><a href="https://nnlm.gov/nto">https://nnlm.gov/nto</a></td>
</tr>
<tr>
<td>NLM Support Center</td>
<td><a href="https://support.nlm.nih.gov">https://support.nlm.nih.gov</a></td>
</tr>
</tbody>
</table>

See Help and FAQ links on each database homepage

The National Network of Libraries of Medicine
Phone: 301.496.4777 | URL: https://nnlm.gov

1. Middle Atlantic Region (MAR)
   Delaware, New Jersey, New York, and Pennsylvania. The Middle Atlantic Region is based in Pittsburgh, PA, at the University of Pittsburgh.

2. Southeastern / Atlantic Region (SEA)
   Alabama, District of Columbia, Florida, Georgia, Maryland, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee, US Virgin Islands, Virginia, and West Virginia. The Southeastern / Atlantic Region is based in Baltimore, MD, at the University of Maryland.

3. Greater Midwest Region (GMR)
   Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, North Dakota, Ohio, South Dakota, and Wisconsin. The Greater Midwest Region is based in Iowa City, IA, at the University of Iowa.

4. MidContinental Region (MCR)
   Colorado, Kansas, Missouri, Nebraska, Utah, and Wyoming. The MidContinental Region is based in Salt Lake City, UT, at the University of Utah.

5. South Central Region (SCR)
   Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. The South Central Region is based in Fort Worth, TX, at the University of North Texas Health Science Center.

6. Pacific Northwest Region (PNR)

7. Pacific Southwest Region (PSR)
   Arizona, California, Hawaii, Nevada, and US Territories in the Pacific Basin. The Pacific Southwest Region is based in Los Angeles, CA, at the University of California, Los Angeles.

8. New England Region (NER)
   Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. The New England Region is based in Worcester, MA, at the University of Massachusetts Medical School.